Partner Information									
Organization Information									
Full organization name National Institute for Nanotechnology						Organization type Research organization			
Sector									
Federal governr	nent								
Address 11421 Saskatchewan Drive NW					City/Municipality Edmonton		Prov./State AB	Postal/Zip code T6G2M9	
				CANADA					
Contact Informa	ation								
Contact family name									
Brommeland								1-20-1-	
Given name Richard								Initials	
	Country code	Area code	Number	Extens	ion				
Telephone number	1	780	641-1620						
Secondary phone number									
Fax number									
E-mail									
richard.bromme	eland@	nrc-cr	ırc.gc.ca						
Web address									





National Research Council Canada Conseil national de recherches Canada



Prof. Rob Shields and Dr. Kevin Jones CRSC, Faculty of Extension 2-184 Enterprise Square 10230 Jasper Ave. Edmonton, AB T5J 4P6 November 16, 2011

RE: Your "Nanotechnology and the Community" SSHRC Partnership Development Grant Program Application

Dear Rob and Kevin,

The National Institute for Nanotechnology is pleased to confirm our support for your application to the SSHRC Partnership Development Grant Program in the area of nanotechnology and the community. We would be happy to participate in and assist the project over its term. For instance, we offer to support the development of the project's research and engagement activities by:

- continuing our membership on the project steering committee;
- providing technical expertise on developments in nanotechnology and the role of facilities such as NINT to the project as a whole, and in the following areas in particular:
 - a) assisting the development of case studies and issues around which the citizen panel and community engagement activities would take place.
 - b) assistance in preparing learning materials for citizens participating in these exercises.
- participating in the engagement activities by contributing scientific expertise and in helping facilitate the development of a public dialogue around nanotechnology;
- assisting the project to liaise with Alberta's emerging nanotechnology sector.

We consider your proposed work to be valuable to our mission and potentially very rewarding for our community. When the community participates in such initiatives, its gains a facts-based confidence in the safety of, regulatory framework for, and societal benefits related to nanotechnology based innovation. That confidence is essential to enable NINT and its stakeholders to smoothly deploy such innovation in fulfillment of our mandate.

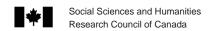
Sincerely yours,

Marie D'Iorio

A/Director General







Family name, Given name
Brommeland, Richard

Contributions from Partner

A partner is an organization that participates actively in a formal partnership and contributes in a meaningful way to the success of the endeavour.

	Confirmed	Cash	Confirmed	In-kind
Personnel costs		Amount		Amount
Student salaries and benefits/Stipends				
Undergraduate				
Masters				
Doctorate				
Non-student salaries and benefits/Stipends	'		'	
Postdoctoral				
Other				
Travel and subsistence costs				
Applicant/Team member(s)				
Canadian travel				
Foreign travel				
Students				
Canadian travel				
Foreign travel				
Other expenses				
Professional/Technical services	N	C	N	6,40
Supplies				
Non-disposable equipment				
Computer hardware				
Other				
Other expenses (specify)				
Total		C		6,40
Total of all contributions (cash + in-kind)				6,40





Family name, Given name
Carpenter, David

Partner Information										
Organization In	formation	on								
Full organization nan Northern Alber	Full organization name Northern Alberta Institue of Technology						Organization type College			
Sector						•				
Higher education	on									
Address							Prov./State	Postal/Zip code		
11762-106 Stre	et				Edmonton		AB	T5G2R1		
					CANADA					
Contact Information										
Contact family name										
Carpenter								l		
Given name David								Initials C		
	Country code	Area code	Number	Extens	ion					
Telephone number	1	780	4717714							
Secondary phone number										
Fax number	1	780	4718994							
E-mail										
dcarpent@nait.	ca									
Web address										
www.nait.ca										





18 November 2011

Prof. Rob Shields and Dr. Kevin Jones CRSC, Faculty of Extension 2-184 Enterprise Square 10230 Jasper Ave. Edmonton, AB T5J 4P6

Dear Rob and Kevin,

I am writing to confirm our support for your application the SSHRC Partnership Development Grant Program in the area of nanotechnology and the community and for the project aims and objectives. I shall be pleased to participate for the entire term of the project as a partner. We will support the development of the project's research and engagement activities by:

- joining the membership of the project steering committee for the term of the project;
- lending expertise to inform the project development in areas relating to product design and the commercial development of nanotechnologies;
- participating in citizen panel and engagement activities as experts in product development and skills training;
- participate in the development of research activities relating to training and career development in the nanotechnology sector in Edmonton;
- support NAIT technology students in participating in citizen panels and engagement activities.

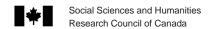
We see this as an interesting and potentially very rewarding project and hope that through our participation we will be able to foster greater innovation and engagement with nanotechnology in the community.

Sincerely yours,

David C. Carpenter

Dean, School of Information Communication and Engineering Technology,

NAIT



Family name, Given name
Carpenter, David

Contributions from Partner

A partner is an organization that participates actively in a formal partnership and contributes in a meaningful way to the success of the endeavour.

	Confirmed	Cash	Confirmed	In-kind
Personnel costs		Amount		Amount
Student salaries and benefits/Stipends				
Undergraduate				
Masters				
Doctorate				
Non-student salaries and benefits/Stipends	'		•	
Postdoctoral				
Other				
Travel and subsistence costs				
Applicant/Team member(s)				
Canadian travel				
Foreign travel				
Students				
Canadian travel				
Foreign travel				
Other expenses				
Professional/Technical services				
Supplies				
Non-disposable equipment				
Computer hardware				
Other				
Other expenses (specify)				
Total		(
Total of all contributions (cash + in-kind)				



Conseil de recherches en sciences humaines du Canada

Family name, Given name
Djukich, Dan

Partner Inform	nation	1								
Organization Inf	ormatic	on								
						Provin	Organization type Provincial/Territorial government			
Sector										
Provincial government										
Address 250 Karl Clark Road					City/Municipality Edmonton		Prov./State	Postal/Zip code T6N1E4		
			Country CANADA							
Contact Informa	ıtion									
Contact family name										
Djukich								Τ		
Given name Dan								Initials		
	Country code	Area code	Number	Exten	sion					
Telephone number	780	450	5111							
Secondary phone number										
Fax number										
E-mail										
dan.djukich@al	bertain	novat	es.ca							
Web address										





Edmonton

250 Karl Clark Road Edmonton, AB Canada T6N 1E4 Tel 780.450.5111 Fax 780.450.5333 Calgary

3608 – 33 St NW Calgary, AB Canada T2L 2A6 Tel 403.210.5222 Fax 403.210.5380 Vegreville

P.O Bag 4000 Vegreville, AB Canada T9C 1T4 Tel 780.632.8211 Fax 780.632.8385 Devon

C/O 250 Karl Clark Road Edmonton, AB Canada T6N 1E4 Tel 780.450.5111 Fax 780.450.5333

November 1, 2011

Prof. Rob Shields and Dr. Kevin Jones CRSC, Faculty of Extension 2-184 Enterprise Square 10230 Jasper Ave. Edmonton, AB T5J 4P6

Dear Rob and Kevin:

I am writing to confirm our support for your application to the SSHRC Partnership Development Grant Program in the area of nanotechnology and the community. I, or another representative of Alberta Innovates - Technology Futures (AITF), will be happy to participate as a partner for the entire term of the project and will support the development of the project's research and engagement activities by:

- continuing our membership on the project steering committee
- providing expertise on policy and strategy development relating to nanotechnology in the Province of Alberta
- participating in the engagement activities as representatives of AITF and in helping facilitate the development of a public dialogue around nanotechnology
- assisting the project to liaise with Alberta's emerging nanotechnology sector
- provide financial support for the development of the Citizen Panel and Community Engagement activities as outlined in the attached activity description and budget

I see this as an interesting and potentially very rewarding project and hope that through our participation we will be able to foster greater innovation and engagement with nanotechnology in the community.

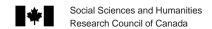
Sincerely,

Dan Djukich

Director, nanoAlberta

DD/ifm





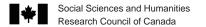
Family name, Given name
Djukich, Dan

Contributions from Partner

A partner is an organization that participates actively in a formal partnership and contributes in a meaningful way to the success of the endeavour.

	Confirmed	Cash	Confirmed	In-kind
Personnel costs		Amount		Amount
Student salaries and benefits/Stipends				
Undergraduate				
Masters				
Doctorate				
Non-student salaries and benefits/Stipends	<u> </u>			
Postdoctoral				
Other				
Travel and subsistence costs				
Applicant/Team member(s)				
Canadian travel				
Foreign travel				
Students			· ·	
Canadian travel				
Foreign travel				
Other expenses			•	
Professional/Technical services	N	(N	6,40
Supplies				
Non-disposable equipment				
Computer hardware				
Other				
Other expenses (specify)				
Engagement Exercises	Υ	48,808	N	
Total		48,808	3	6,40
Total of all contributions (cash + in-kind)	'		. '	55,20



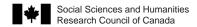


				Internal use	CID (if know	n)			
				257635					
Identification									
Only the information in the Name section will be made available to selection committee members and external assessors. Citizenship and Statistical and Administrative Information will be used by SSHRC for administrative and statistical purposes only. Filling out the statistical and Administrative Information section is optional.									
Name									
Family name		Giver	name		Initials	Title			
Guston		Dav	e			Dr.			
Citizenship - Applican	ts and co-applicants must in	ndicate	their citizenship status by checkin	g and answerin	g the applica	able questions.			
Citizenship Canadiar status	Permanent resident s	since	Other (country)	Have you applied for permanent residency?					
		-	UNITED STATES		_ Ye	es No			
Statistical and Administrative Information									
Birth year Gender	Permanent postal code in Canada (i.e. K2P1G4)		orrespondence language	ous contact with SSHRC? oplicant, assessor, etc.)					
○F ●	М	● English							
full name used during previous contact, if different from above									

Contact Information The following information will help us to contact you more rapidly. Secondary information will not be released by SSHRC without your express consent.									
Primary telephone number Secondary telephone number									
Country code	Area code	Number	Extension	Country code	Area code	Number	Extension		
1	480	727-8829							
Primary	fax num	ber		Secondary fax number					
Country	Area code	Number	Extension	Country code	Area code	Number	Extension		
Primary E-mail dave.gustonsshrc@gmail.com									
Second	Secondary E-mail david.guston@asu.edu								

Web CV 2011/11/17 **Canadä**

Checked



Do not photocopy this page.

Family name, Given name
Guston, Dave

Current Address Use only if you are not affiliated with a department at a Canadian university. (If you are affiliated with a department at a Canadian university, the department's mailing address will be used.) If you wish to use another address, specify it under the Correspondence Address.			Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address.				
Address			Address				
Arizona State University							
PO Box 875603							
City/Municipality	Prov. /	Postal/Zip code	City/Municipality		rov. / I	Postal/Zip code	
Tempe	State			31	.ale		
	AZ	85287					
Country UNITED STATES			Country				
Temporary Address If providing a temporary address, phone number and/or E-mail, ensure that you enter the effective dates.			Permanent Address in CANADA				
Address			Address				
				ı			
City/Municipality Prov./			City/Municipality		Prov./ State	Postal/Zip code	
Country			Country				
Start date (yyyy/mm/dd) End date (yyyy/mm/dd)			Temporary telephone/fax number Country Area Number code code	Ex	xtension		
Temporary E-mail							

Canadä

Web CV

Conseil de recherches en sciences humaines du Canada

Do not photocopy this page.

Family name, Given name

Guston, Dave

Research Expertise (optional)	Re	search	Expertise	(optional)
-------------------------------	----	--------	------------------	------------

The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

Rank	Code	Area
1	360	Science and technology
2	320	Politics and government
3	244	Innovation, Industrial and Technological Development

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

From	То
Year	Year
BC AD	BC AD
	O O
O O	O O

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

-	м						
Rank	Code	Region					
1							
2							
3							

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

Rank	Code	Countries	Prov./ State
1			
2			
3			
4			
5			

Personal information will be stored in the Personal Information Bank for the appropriate program.



Conseil de recherches en sciences humaines du Canada

Curriculum Vitae

Family name, Given name

Guston, Dave

Language Pro	oficiency						
Read	Write Speak Comprehend aurally Other languages						
English X							
French							
Work Experient List the positions, and	nce cademic and non-academic, you have held beginning with the current position and all previous p	ositions in re	everse				
	based on the start year.						
Current position			Start date (yyyy/mm)				
Full Professor			2005/1				
Org. code	Full organization name						
9976102	Arizona State University						
Department/Division	name						
Politics and Gl	lobal Studies						
Position type	Tenured Non-tenure Employment status Full-time	Part-tir	ne				
	Tenure-track Non-academic Non-salaried	Leave	of absence				
Position		Start date (yyyy/mm)	End date (yyyy/mm)				
Co-Director		2008/7	(333)				
Org. code	Full organization name						
9976102	Arizona State University						
Department/Division	ı name						
Consortium for	or Science, Policy and Outcomes						
Position		Start date (yyyy/mm)	End date (yyyy/mm)				
Acting Directo	or	2007/7	2008/6				
Org. code	Full organization name						
9976102	Arizona State University						
Department/division	name						
Consortium for	r Science, Policy and Outcomes						
Position		Start date (yyyy/mm)	End date (yyyy/mm)				
Full Professor		2005/1					
Org. code	Full organization name	•					
9976102	9976102 Arizona State University						
Department/Division	name						
Politics and Gl	lobal Studies						

Personal information will be stored in the Personal Information Bank for the appropriate program.

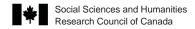
Canadä

Web CV



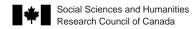
Family name, Given name
Guston, Dave

Work Exp	erience (cont'd)		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Director		2005/10	(уууу/ППП)
Org. code	Full organization name	2003/10	
9976102	Arizona State University		
Department/Divi	•		
Center for N	Nanotechnology in Society (CNS-ASU)		
Position		Start date	End date
Associate D	virector	(yyyy/mm) 2005/1	(yyyy/mm) 2007/6
Org. code	Full organization name	2003/1	200770
9976102	Arizona State University		
Department/Divi	ision name		
Consortium	for Science, Policy, & Outcomes		
Position	•	Start date	End date
Director		(yyyy/mm) 2001/7	(yyyy/mm) 2004/12
Org. code	Full organization name	<u> </u>	
9932103	Rutgers, The State University of New Jersey		
Department/Divi			
Public Polic	су		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Associate Pa	rofessor		2004/12
Org. code	Full organization name		
9932103	Rutgers, The State University of New Jersey		
Department/Divi			
Bloustein So	chool of Planning & Public Policy		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Assistant Pr	rofessor	1994/7	2000/6
Org. code Full organization name			
9932103	Rutgers, The State University of New Jersey		
Department/Divi			
Public Polic	ey		
	-		



Family name, Given name
Guston, Dave

Work Exp	erience (cont'd)			
Position	Position			
Adjunct Le	Adjunct Lecturer			
Org. code	Full organization name	1994/4	1994/6	
9927102	Harvard University			
Department/Div	rision name			
John F. Ker	nnedy School of Government			
Position		Start date	End date	
Postdoctora	ll fellow or associate	(yyyy/mm) 1993/6	(yyyy/mm) 1994/6	
Org. code	Full organization name	1773/0	177 170	
9927102	Harvard University			
Department/Div	•			
Belfer Cent	er for Science and International Affairs			
Position		Start date	End date	
Research Assistant			(yyyy/mm) 1993/5	
Org. code	Full organization name	1992/9	1773/3	
9927102	Harvard University			
Department/Div	<u> </u>			
Belfer Cent	ter for Science and International Affairs			
Position		Start date	End date	
Research A	ssistant	(yyyy/mm) 1990/6	(yyyy/mm) 1990/9	
Org. code	Full organization name	1770/0	1770/7	
9953010	Smithsonian Institution			
Department/Div				
National M	useum of American History			
Position		Start date	End date	
		(yyyy/mm)	(yyyy/mm)	
Org. code	Full organization name			
Department/Div	I vision name			

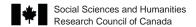


Family name, Given name
Guston, Dave

Academic B	•			
List up to 5 degrees	s, beginning with the highest degree first and all others in reverse chronologic	cal order, bas	sed on the start	date.
Degree type	Degree name	Start date (yyyy/mm) 1989/01	Expected date (yyyy/mm)	Awarded date (yyyy/mm) 1993/01
Doctorate	Dissiplies	1989/01	Did CCHDC au	
Disc. code	Discipline		Did SSHRC su you to get this	
62800	Political Science		Yes	● No
Org. code	Organization			
9927103	Massachusetts Institute of Technology			
Country UNITED	STATES			
Degree type	Degree name	Start date	Expected date	Awarded date
BA Hon.		(yyyy/mm) 1984/09	(yyyy/mm)	(yyyy/mm) 1987/01
Disc. code	Discipline	1904/09	Did SSHRC su	
D100. 00dc	Bissipinie		you to get this	
63499	Technology and Society		Yes	■ No
Org. code	Organization			
9929101	Yale University			
Country UNITEI	O STATES			
Degree type	Degree name	Start date	Expected date	Awarded date
		(yyyy/mm)	(yyyy/mm)	(yyyy/mm)
Disc. code	Discipline		Did SSHRC su you to get this	
			Yes	○ No
Org. code	Organization			
Country				
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)
Disc. code	Discipline		Did SSHRC su	
			Yes	No
Org. code	Organization			
Country				
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)
Disc. code	Discipline		Did SSHRC su	
			you to get this	degree?
Org. code	Organization			<u> </u>
Country				

Canadä

Web CV



Family name, Given name
Guston, Dave

					4.5		
C	ra	М		n	*1	2	ıe
		ч	•		u	\boldsymbol{a}	13

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

Category	Name	Source or Country	Duration (Months)	Value / Year awarded
Professional Designation	American Association for the Advancement of Scienc	non-profit organization UNITED STATES		\$0 2003
Non-Academic Prize	Don K. Price Award	American Political Science Association UNITED STATES	12	2002

Docoor	ah E	vnor	4100
Resear	CII E	xpei	เเรษ

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

Political Science, Nanotechnology, Planning & Public Policy, Politics and Government, Innovation

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

Rank	Code	Discipline	If Other, specify
1	62800	Political Science	
2	62820	Public Policy Studies	
3			
4			
5			



Family name, Given name
Guston, Dave

Funded	Research			
	grants or contracts you have received from SSHR d. If you are not the applicant (principal investigat		chronological orde	er, based on the
Org. code	Full name of funding organization		Year awarded	Total amount
1	National Science Foundation		(уууу)	(CAN\$)
1			2010	\$6,500,000
Role	Applicant		Completion statu	s Complete
Project title	NSEC/Center for Nanotechnology	in Society at Arizona State Un	niversity	
Applicant's f	amily name	Applicant's given name		Initials
Org. code	Full name of funding organization		Year awarded (yyyy)	Total amount (CAN\$)
1	National Science Foundation			, ,
1			2009	\$109,000
Role	Applicant		Completion statu	S X Complete
Project title	NSEC/Center for Nanotechnology	in Society at Arizona State U	niversity	
Applicant's f	amily name	Applicant's given name		Initials
Org. code	Full name of funding organization		Year awarded (yyyy)	Total amount (CAN\$)
1	National Science Foundation			
1			2009	\$543,000
Role	Applicant		Completion statu	S X Complete
Project title	Socio-Technical Integration Resea	rch		
Applicant's f	amily name	Applicant's given name		Initials
Org. code	Full name of funding organization		Year awarded	Total amount
1	National Collegiate Inventors and	Innovators Alliance	(yyyy)	(CAN\$)
1			2007	\$30,000
Role	Applicant		Completion statu	
Project title	New Futures for Human Health an Product Concepts in InnovationSp.	•	on of Nanoted	chnology-based
Applicant's f	amily name	Applicant's given name		Initials

Personal information will be stored in the Personal Information Bank for the appropriate program.

Canadä^{*}

Web CV



Family name, Given name
Guston, Dave

Funded	Research (cont'd)			
Org. code	Full name of funding organization		Year awarded	Total amount
1	National Science Foundation		(yyyy) 2005	(CAN\$)
1			2005	
Role	Applicant		Completion status	S X Complete
Project title	NSEC/Center for Nanotechnology	in Society at Arizona State U	niversity	
Applicant's f	amily name	Applicant's given name		Initials
Org. code	Full name of funding organization		Year awarded	Total amount
1	National Science Foundation		(yyyy) 2002	(CAN\$)
1			2003	\$80,000
Role	Applicant		Completion status	S X Complete
Project title	The Public Value of Social Policy			
Applicant's f	amily name	Applicant's given name		Initials
Org. code	Full name of funding organization		Year awarded (yyyy)	Total amount (CAN\$)
1	National Science Foundation		2002	
1				\$68,000
Role	Co-applicant		Completion status	
Project title	Collaborative Research: Research Science and Technology Policy	Symposium with the Next Ge	neration of Le	aders in
Applicant's f	amily name	Applicant's given name		Initials
Sarewitz		Dan		
Org. code	Full name of funding organization		Year awarded	Total amount
	National Science Foundation		(уууу)	(CAN\$)
1			1998	\$89,000
Role	Applicant		Completion status	S X Complete
Project title	Identifying and Evaluating Strateg	ies for Constructing Serviceab	ole Truths	
Applicant's f	amily name	Applicant's given name		Initials

Personal information will be stored in the Personal Information Bank for the appropriate program.

1. Research Contributions Over the Last Six Years (2005-11) Refereed contributions

Books

- R D. H. Guston. 2000. *Between Politics and Science: Assuring the Integrity and Productivity of Research*. New York: Cambridge University Press.
- R D. H. Guston and D. Sarewitz, eds. 2006. *Shaping Science and Technology Policy: The Next Generation of Research*. Madison: University of Wisconsin Press.

Book Chapters

- M.C. Roco, B. Harthorn, D. Guston, and P. Shapira. 2010. "Innovative and Responsible Governance of Nanotechnology for Responsible Development." Pp. 441-87 in M.C. Roco, C.A. Mirkin, and M.C. Hersam, eds., WTEC Panel report on Nanotechnology Research Directions to 2020: Retrospective and Outlook. New York: Springer.(Reprinted as: M.C. Roco, B. Harthorn, D. Guston and P. Shapira. 2011. "Innovative and Responsible Governance of Nanotechnology." Journal of Nanoparticle Research 13(9).)
- R.E. Smits, R. van Merkerk, D.H. Guston, and D. Sarewitz. 2010. "Strategic Intelligence: The Role of TA in Systemic Innovation Policy." In R.E. Smits, S. Kuhlman, and P. Shapira, eds., *The Theory and Practice of Innovation Policy: An International Research Handbook*. Northampton, MA: Edward Elgar.
- R D. H. Guston. 2010. "Science, Politics, and Two Unicorns: An Academic Critique of Science Advice." Pp. 7-15 in R. Pielke, Jr. and R. A. Klein, eds., *Presidential Science Advisors: Perspectives and Reflections on Science, Policy, and Politics.* New York: Springer.
- R. Karinen and D. H. Guston. 2010. "Toward Anticipatory Governance: The Experience with Nanotechnology." Pp. 217-232 in M. Kaiser, M. Kurath, S. Maasen, and C. Rehmann-Sutter, eds. *Governing Future Technologies: Nanotechnology and the Rise of an Assessment Regime*. Dordrecht: Springer.
- R H. Fenyk and D. H. Guston. 2006. "Citizen Expertise and Citizen Action in the Creation of the Freshwater Wetlands Protection Act." In N. Maher, ed., *New Jersey's Environments*. New Brunswick: Rutgers University Press.
- R D. H. Guston. 2005. "Institutional Design for Robust Knowledge: The National Toxicology Program's *Report on Carcinogens*." Pp. 63-79 in S. Maasen and P. Weingart, eds., *Democratization of Expertise? Sociology of Science*, 24. Dordrecht: Springer.

Journal articles

- W. C. Clark, T.P. Tomich, M. von Noordwijk,, D. Guston, D. Catacutan, N.M. Dickson, and E. McNie. 2011. "Boundary work for sustainable development: Natural Resource Management at the Consultative Group on International Agricultural Research (CGIAR)." *Proceedings of the National Academy of Sciences USA*. DOI: 10.1073/pnas.0900231108.
- R D. H. Guston. 2010. "The Anticipatory Governance of Emerging Technologies." *Journal of the Korean Vacuum Society* 19(6):432-41.
- R M. Brown and D. H. Guston. 2009. "Science, Democracy, and the Right to Research." *Science and Engineering Ethics* 15(3):351-66.
- R S. Shapiro and D. H. Guston. 2007. "Procedural Control of the Bureaucracy, Peer Review, and Epistemic Drift." *Journal of Public Administration, Research, and Theory* 17(4):535-51.
- R D. A. Scheufele, E. A. Corley, S. Dunwoody, T. Shih, E. Hillback, and D. H. Guston. 2007. "Nanotechnology: Scientists Worry About Some Risks More Than the General Public." *Nature Nanotechnology* 2(12):732-34.

R G. Gano, J. E. Crowley, and D. H. Guston. 2007. "Shielding' the Knowledge Transfer Process in Human Services Research" *Journal of Public Administration, Research, and Theory* 17(1):39-60.

Forthcoming refereed contributions

D. H. Guston. (submitted). "The Pumpkin or the Tiger? The Anticipatory Governance of Emerging Technologies." *Minerva*.

A. Wiek and D. H. Guston. (submitted). "The Nano-Enhanced City, Sustainability Challenges, and Anticipatory Governance." *Environment and Planning C*.

Non-refereed contributions

Professor Guston has numerous invited or editorially reviewed contributions in prominent professional journals, including invited commentaries in *Nature* and *People & Science*, four authored or co-authored articles in *Issues in Science and Technology*, and articles in *Society, Minerva, Centennial Review, Forum for Applied Research & Public Policy*, and *Social Epistemology*. Among other brief writings, Professor Guston has authored or co-authored two articles in *The Encyclopedia of Science, Technology, & Ethics*, an article in *The History of Science in the United States: An Encyclopedia*, book reviews in *The Journal of Nanoparticle Research, Science, Public Understanding of Science, Futures*, and *Technology and Culture*, opinion pieces in *The Newark Star-Ledger, The Chronicle of Higher Education, The Scientist*, and *IEEE Technology and Society Magazine*, and letters in *The New York Times, The New York Times Magazine, The Science Times, The New Republic, Science, The New Yorker, Issues in Science and Technology*, and *Academe*.

- D. H. Guston, ed. 2010. *Encyclopedia of Nanoscience and Society* (two volumes). Thousand Oaks, CA: Sage Publications.
- Selin, C., A. Wiek, D. H. Guston, A. Wilkinson and R. Ramirez. 2010. *Plausibility Project Workshop: Creating Research Agendas*. CNS-ASU Report #R10-0001. Center for Nanotechnology in Society, Arizona State University, Tempe, AZ.
- D. H. Guston, 2010. Societal Dimensions Research in the National Nanotechnology Initiative. CSPO Report #R10-02. Consortium for Science, Policy and Outcomes and Center for Nanotechnology in Society, Arizona State University, Tempe, AZ.
- D. H. Guston. 2010. *Between Politics and Science: Assuring the Integrity and Productivity of Research*. New York: Cambridge University Press. (China edition, with new preface).
- P. Hamlett, M. D. Cobb, and D. H. Guston. 2008. *National Citizens' Technology Forum: Nanotechnologies and Human Enhancement*. CNS-ASU Report #R08-0002.
- D. Barben, E. Fisher, C. Selin, and D. H. Guston. 2008. "Anticipatory Governance of Nanotechnology: Foresight, Engagement, and Integration." Pp. 979-1000 in E. J. Hackett, O. Amsterdamska, M. E. Lynch, and J. Wajcman, eds., *The New Handbook of Science and Technology Studies*. Cambridge: MIT Press.
- C. A. Miller, D. H. Guston, D. Barben, J. Wetmore, C. Selin and E. Fisher. 2007. *Nanotechnology and Society: Ideas for Education and Public Engagement*. CNS-ASU Report #R07-0001. Center for Nanotechnology in Society, Arizona State University, Tempe, AZ.
- D. H. Guston. 2007. "Toward Centres for Responsible Innovation in the Commercialized University." Pp. 295-312 in P. W. B. Phillips and J. Porter, eds., *Public Science in Liberal Democracy: The Challenge to Science and Democracy*. Toronto: University of Toronto Press.
- D. H. Guston. 2007. "The Center for Nanotechnology in Society at Arizona State University and the Prospects for Anticipatory Governance." Pp. 377-92 in N. Cameron and M. Ellen Mitchell, eds., *Nanoscale: Issues and Perspectives for the Nano Century*. New York: John Wiley and Sons.

- D. H. Guston, J. Parsi, and J. Tosi. 2007. "Anticipating the Ethical and Political Challenges of Human Nanotechnologies." Pp. 185-97 in F. Allhoff, P. Lin, J. Moor, and J. Weckert, eds., *Nanoethics: The Ethical and Social Implications of Nanotechnology*. New York: John Wiley and Sons.
- D. H. Guston. 2006. "On Consensus and Voting in Science: From Asilomar to the NationalToxicology Program." Pp. 378-404 in S. Frickel and K. Moore, eds., *The New Political Sociology of Science*. Madison: University of Wisconsin Press.
- M. Feldman, D. Guston, S. Hilgartner, R. Hollander, and S. Slaughter. 2005. *Research Policy as an Agent of Change: Workshop Report*. NSF 05-209. Arlington, VA: National Science Foundation.

2. Other Research Contributions

Professor Guston has made more than one hundred and fifty presentations of his research at professional meetings (e.g., American Association for the Advancement of Science, American Political Science Association, Society for Social Studies of Science, Society for the Study of Nanoscience and Emerging Technologies), meetings by special invitation (e.g., Harvard Medical School, San Francisco Exploratorium, Brookings Institution, Gordon Research Conference, AAAS Science and Technology Policy Colloquium, Sigma Xi, Sam Nunn/Bank of America Public Policy Forum, NSEC/National Center for Learning and Teaching, Bassetti Foundation), community groups (e.g., Spirit of the Senses Salon, Humanist Society of Greater Phoenix, Science Café), and through invitations by universities, governmental and quasi-governmental bodies in the US, Canada, Denmark, France, Germany, Ireland, Italy, Japan, Korea, the Netherlands, New Zealand, Norway, Sweden, Switzerland, and the United Kingdom. He was a keynote speaker at the Dublin Institute of Technology's meeting Research Ethics: Challenges and Dilemmas, in Dublin, Ireland in May 04, the Dutch NanoNed Flagship TA and Societal Aspects of Nanotechnology meeting in Utrecht, the Netherlands in Jul 08, the Nanotechnology, Policy and Society meeting at Manchester University, UK, in Sep 08, and the ESRCsponsored Critical Public Engagement seminar at Durham University in Dec 09. In Mar 09, he organized and spoke at a briefing to the US Congressional Nanotechnology Caucus on "Nanotechnology and the Public: Data for Decision Makers," and he organized a "Workshop on Real-time Technology Assessment and Anticipatory Governance" prior to the Sep 09 inaugural meeting of the Society for the Study of Nanoscience and Emerging Technologies, in Seattle. In Oct 09, he presented on the chair's plenary panel on "STS and Policy in the Academy" at the annual meeting of the Society for Social Studies of Science. In Feb 10, he briefed a working group of the President's Council of Advisors for Science and Technology (PCAST) on the societal dimensions of nano-scale science and engineering.

3. Five Most Significant Career Research Contributions

- 1. Between Politics and Science: Assuring the Integrity and Productivity of Research. Cambridge U. Press, 2000. This book was awarded the 2002 Don K. Price Prize by the American Political Science Association for best book in science and technology policy. It outlines a coherent new framework for analyzing the changing relationship between politics and science in the United States.
- 2. Boundary organizations in environmental policy and science: an introduction. *Science, Technology & Human Values*. 26, 399-408, 2001. Describes how science acts as a boundary organization.
- 3. Real-Time Technology Assessment. *Technology in Society* 24:93-109, 2002 (with D. Sarewitz). The paper outlines an important contribution to real-time technology assessment, which bridges natural and social science knowledge. It is the third most cited paper in the journal *Technology in Society*.
- 4. Understanding Anticipatory Governance." Social Studies of Science (submitted). This article presents

the central assumptions guiding an anticipatory approach to governing technologies. It charts a new course of research that attempts to understand the future impact of technologies within society.

5. Innovation policy: not just a jumbo shrimp. *Nature*, 454, 940-941, 2008. How does one predict and direct something that is by nature unpredictable and, by necessity, often undirected? The paper introduces three key forms of anticipatory governance – engagement, foresight and integration – to a non-social science audience.

4. Career Interruptions and Special Circumstances: N/A

5. Contributions to Training

<u>Undergraduate Supervision</u>

At ASU, Professor Guston has supervised two undergraduate independent projects, chaired one undergraduate honors thesis, and served as second reader on two additional honors theses (both of which were awarded Fulbright scholarships). He has supervised numerous undergraduate researchers at CNS-ASU and CSPO.

Graduate Supervision

Professor Guston has been a member of nine completed doctoral dissertations in: political science, communication, urban planning and policy development, public affairs, life sciences, and chemistry & biochemistry. He currently serves on 7 doctoral committees in urban planning and policy development, public affairs, and political science. He has been a member of one completed master's thesis committee in life sciences and currently supervises one in political science. Professor Guston has supervised dozens of internships and independent studies, including one independent study by a master's student at Rutgers that resulted in briefings for policy makers in Trenton and Washington, DC (sponsored by Reps. Rodney Frelinghuysen and Rush Holt).

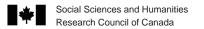
Post-doctoral Supervision

Professor Guston has supervised eight post-doctoral fellows.

Professor David Guston

My work is interdisciplinary and has taken up issues of innovation, science, and public policy, with a particular focus on developing conceptual and policy models to assess and study nanotechnology within society.

- 1. Director, NSEC/Center for Nanotechnology in Society at Arizona State University. As director of the Nanotechnology centre at ASU, I am responsible for advancing research on nanotechnology that improves the overall quality of life for Americans. The focus of the research is on the societal aspects of nanoscale and engineering, carried out in close collaboration with NSE scientists, and various public engagement exercises. The centre collaborates with many other academic institutions, disciplines, and local community outreach programs.
- 2. Co-Director, *Consortium for Science, Policy and Outcomes, Arizona State University*. As co-director, I am responsible for carrying the vision of the consortium forward. The consortium is an intellectual network aimed at enhancing the contribution of science and technology to society's pursuit of equality, justice, freedom, and overall quality of life. It focuses on the development of knowledge and public engagement that helps decision makers chart a course for the future.
- 3. Series Editor, *Yearbook of Nanotechnology in Society*. New York: Springer. The goal of the nanotechnology book series is to present emerging scholarship on nanotechnology to scholars and students interested in the field. It draws much of its approach from the social studies of science and technology, and it exemplifies the kind of research done at CNS-ASU.
- 4. Editor, *Encyclopedia of Nanoscience and Society* (two volumes). Thousand Oaks, CA: Sage Publications, 2010. This two-part series on nanotechnology and society brings together nearly 500 entries describing the societal aspects of nanoscience.
- 5. Innovation policy: not just a jumbo shrimp. *Nature*, 454, 940-941, 2008. This commentary outlines three key forms of anticipatory governance engagement, foresight and integration to a non-social science audience. It considers why nanotechnology innovation can be further integrated into the needs of society through anticipatory governance.
- 6. The Anticipatory Governance of Emerging Technologies. *Journal of the Korean Vacuum Society* 19(6):432-41, 2010. This article presents the central assumptions guiding an anticipatory approach to governing (nano) technologies, which emphasizes the development of new models to understand the future impact of technologies within society.
- 7. Real-Time Technology Assessment. *Technology in Society* 24:93-109, 2002 (with D. Sarewitz). This paper develops a model that integrates natural science and engineering investigations with social science and policy research in to a real-time assessment. Using examples from the nanoscale, the paper outlines investigations into analogical case studies, research program mapping, communication and early warning, and technology assessment and choice.



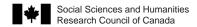
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Horst			Maj	ia			Dr.
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Citizenship status	Canadian	Permanent resident si (yyyy/mm/dd)	ince	Other (country)		,	ou applied for nent residency?
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University of Copenhagen					
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DK-2300 Copenhagen S			- City/Municipality	Prov. / State	Postal/Zip code
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Web CV

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Family name, Given name	
Horst, Maja	

Research Expertise (optional)

The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

Rank	Code	Area
1	120	Communication
2	360	Science and technology
3	244	Innovation, Industrial and Technological Development

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

From	То
Year BC AD	Year BC AD

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

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Rank	Code	Region						
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Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

Rank	Code	Countries	Prov./ State
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平	Research Council of Canada

Conseil de recherches en sciences humaines du Canada

Curriculum Vitae

Family name, Given name

Curriculum Vitae				Ho	Horst, Maja			
Language Proficiency								
Read English French	Write X	Speak X	Comprehend a	aurally	Other la	nguages h		
Work Experient List the positions, and chronological order,	ademic and non-		ou have held begi	nning with the	current p	oosition and all previous	s positions in re	everse
Current position								Start date (yyyy/mm)
Head								2011/1
Org. code	Full organizatio	n name						
9129101	University	of Copenl	nagen					
Department/Division	name							
Department of	Media, Cog	nition and	l Communica	ntion				
Position type	Tenured	○ No	on-tenure	Employment	status	Full-time	O Part-tii	me
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Position				•			Start date (yyyy/mm)	End date (yyyy/mm)
External Lectu	irer						2011/1	
Org. code	Full organizatio	n name						
9129103	Aalborg U	niversitet						
Department/Division	name							
Department of	Developme	nt and Pla	nning					
Position							Start date (yyyy/mm)	End date (yyyy/mm)
Associate Prof	essor						2010/1	2011/1
Org. code	Full organizatio	n name						
9129108	Copenhage	en Busines	ss School					
Department/division	name							
Organization a	and Industria	l Sociolog	_y					
Position							Start date (yyyy/mm)	End date (yyyy/mm)
Associate Prof	essor						2007/1	2010/1
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9129108	Copenhagen Business School							
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Management,	Management, Politics and Philosophy (MPP)							

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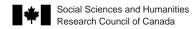
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Org. code Full organization name	2006/1	L
9129104 Roskilde University		
Department/Division name		
Communications, Journalism and Performance-design		
Position	Start date	End date
Assistant Professor	(yyyy/mm) 2004/1	(yyyy/mm) 2006/1
Org. code Full organization name		
9129108 Copenhagen Business School		
Department/Division name		
Management, Politics and Philosophy (MPP)		
Position	Start date	End date
Research Assistant	(yyyy/mm) 1999/1	(yyyy/mm) 2003/1
Org. code Full organization name	-	
9129108 Copenhagen Business School		
Department/Division name		
Management, Politics and Philosophy (MPP)		
Position	Start date (yyyy/mm)	End date (yyyy/mm)
Research Assistant	1999/1	1999/12
Org. code Full organization name		
9129109 University of Southern Denmark		
Department/Division name		
Journalism		
Position	Start date (yyyy/mm)	End date (yyyy/mm)
Research Assistant	1998/1	1999/1
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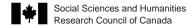
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Academic B	_							
List up to 5 degrees, beginning with the highest degree first and all others in reverse chronological order, based on the start date.								
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	(yyyy/mm)				
Doctorate	Physical and	1999/01	Did CCHDC au	2003/01				
Disc. code	Discipline		Did SSHRC su you to get this					
63499	Knowledge and Management		Yes	No				
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9129108	Copenhagen Business School							
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63499	Communication and Social Science		Yes	● No				
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9129104	Roskilde University							
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BA Gen.		(yyyy/mm) 1990/01	(yyyy/mm)	(yyyy/mm) 1993/01				
Disc. code	Discipline		Did SSHRC su you to get this					
63499	Bachelor of social science		Yes	No No				
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9129104	Roskilde University							
Country DENMA	ARK							
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)				
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Credentials

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

Category	Name	Source or Country	Duration (Months)	Value / Year awarded
Academic Prize	Research Communication	FUHU DENMARK		\$4,630 2009
Academic Prize	The Science Communication Prize	Federal Government DENMARK		\$18,520 2009

Research Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

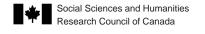
List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

Science and Technology Studies; Public Understanding of Science; Science Communication; Public Communication; Research Management; Sociology of Innovation

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

Rank	Code	Discipline	If Other, specify
1	50600	Communications and Media Studies	
2	63499	Other Sociology	Science and Technology Studies
3	62699	Other Administrative Studies	Sociology of Innovation
4			
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Funded	Research	,						
List up to 8 grants or contracts you have received from SSHRC or other sources. List them in reverse chronological order, based on the year awarded. If you are not the applicant (principal investigator), specify that persons' name.								
Org. code	Full name of funding organization Year awarde (yyyy)			Total amount				
1	The Danish Social Science Resear	2009	(CAN\$) \$674,967					
Role	Applicant		Completion status Complete					
Project title	Scientific Social Responsibility		<u> </u>	_	·			
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Org. code	Full name of funding organization		Year awarded	Total amount				
1	The Danish Strategic Research Co	ouncil	(уууу)	(CAN\$)				
1			2008 \$237,97					
Role	Co-applicant		Completion status X Complete					
Project title Sense-making strategies and the user-driven innovations of virtual worlds								
Applicant's f	amily name	Applicant's given name			Initials			
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Org. code	Full name of funding organization				tal amount (CAN\$)			
The Danish Social Science Resea		rch Council	2007	\$200,942				
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Role	Applicant		Completion status	s X	Complete			
Project title Research Management and Risk								
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1	Danish Research council for the H							
Role	A 1'			_	103,341			
Applicant			s X	Complete				
Project title Stem cell research in the public sphere								
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Funded Research (cont'd)							
Org. code	Full name of funding organization Danish Social Science Research C	Year awarded (yyyy)	Total amount (CAN\$)				
1	Bumish Social Science Research	2004	\$.	555,600			
Role	Co-applicant		Completion status X Complete				
Project title	Creating Science: Crafting stem ce	ell research in a moral landsca	pe				
Applicant's f	amily name	Applicant's given name			Initials		
Horst							
Org. code	code Full name of funding organization			Total amount			
	Danish Social Science Research (Council	(уууу)	(CAN\$)			
1				2004 \$370,400			
Role	Co-applicant		Completion statu	ıs X	Complete		
Project title	PRO-Media: Production, represent	tation & organisation of Busin	iess News				
Applicant's f	amily name	Applicant's given name			Initials		
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Org. code Full name of funding organization			Year awarded	To	otal amount		
The Danish Medical Research Co		uncil	(уууу)		(CAN\$)		
1			1999		740,800		
Role	Research Assistant		Completion status X Complete				
Project title	Molecular diagnostics and disease	prevention.					
Applicant's f	amily name	Applicant's given name			Initials		
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Org. code	Full name of funding organization		I I		otal amount		
			(yyyy)	(CAN\$)			
Role			Completion status Complete				
Project title Completion			John piction statu	<u>" </u>	Complete		
Applicant's f	amily name	Applicant's given name			Initials		

Personal information will be stored in the Personal Information Bank for the appropriate program.



1. Research Contributions Over the Last Six Years (2005-11)

Refereed contributions:

Books and research reports:

- R Roy Langer, Peter Kjær & Maja Horst (eds.) (2009): Produktiv Journalistik Virksomheder Medier Markeder. København: Handelshøjskolens Forlag.
- R Rob Hagendijk, Peter Healey, Maja Horst & Alan Irwin (2005). Science, Technology and Governance in Europe: Challenges of Public Engagement. Stage network, final report to the European commission (HPSE-CT2001-50003)

 Book chapters (Seleted):
- R Maja Horst (2008) Media power? Influencing public opinion formation about stem cell research in Denmark. In Salla Lötjönen & Helena von Troil (eds): Bioethics, Politics and Business. Norden, Nordic Council of Ministers.
- R Maja Horst (2008): In search of dialogue: staging science communication in consensus conferences. In Bernard Schiele, Cheng Donghong, Michel Claessens, Toss Gascoigne, Jenni Metcalfe & Shi Shunke (Eds.): Science Communication in Social Context: Strategies for the future. Springer.
- R Alan Irwin & Maja Horst (2005): Science, Technology and Governance in Europe: Lessons from the STAGE project. In Ciencia, Tecnologia e Sociedade: Novos Modelos de Governanca. Brasilia, CGEE.

Journal articles (Selected):

- R Maja Horst & Mike Michael (2011): On the shoulders of idiots Re-thinking Science Communication as 'event'. Science as Culture. 1470-1189, First published on 08 April 2011
- R Maja Horst (2011): Taking our own medicine on an experiment in science communication. Science and Engineering Ethics 17(3).
- R Maja Horst (2010): Le réseau des cellules souches: Une installation spatiale pour communiquer les sciences sociales. Questions de Communication. # 17, 2010.
- R Maja Horst (2010): Collective Closure? Public debate as the solution to controversies about science and technology. Acta Sociologica 53(3)195-211.
- R Maja Horst & Alan Irwin (2010): Nations at ease with radical knowledge: on consensus, consensusing and false consensusness. Social Studies of Science. 40(1)105-126.
- R Maja Horst (2008): The laboratory of Public Debate: understanding the acceptability of stem cell research. Science and Public Policy 35(3)197-205.
- R Maja Horst, Alan Irwin, Peter Healey & Rob Hagendijk (2007): European scientific governance in a global context resonances, implications and reflections. IDS Bulletin 38(5)6-20.
- R Maja Horst (2007): Public Expectations of Gene Therapy: Scientific Futures and their Performative Effects on Scientific Citizenship. Science, Technology and Human Values 32(2)150-171.
- R Maja Horst (2005): Cloning Sensations: Mass Mediated Articulation of Social Responses to Controversial Biotechnology. In Public Understanding of Science, 14(2)185-200.

Non-refereed Contributions

Maja Horst: Learning from dialogue. Talk to the faculty of Law, Copenhagen University, 19. November 2009.

P1 Morgen: Interview in Scientific Social Responsibility. 18. June 2010.

Maja Horst & Alan Irwin: The Fairy Tale of Copenhagen? In Science and Public Affairs.

Magazine for the British Science Association, 2009.

Dalsgård, B & M Horst: The Stem Cell Network II: Landscape of expectations. Movable installation created in spring 2007 and exhibited at CBS, KU, Fields.

Dalsgård, B, & M Horst: The Stem Cell Network. A social science research lab.

Performed February-March 2005 Nørrebro, Copenhagen. Documented in an unpublished DVD.

Maja Horst: Research Communication. Presentation to the Danish Institute for

International Studies, 15. March 2007.

Forthcoming Contributions (Selected)

Ursula Plesner & Maja Horst (submitted): Selling the Selling Point: How

Innovation Communication creates Users of Virtual Worlds Architecture. Convergence.

Maja Horst (submitted): Deliberation, Dialogue or Dissemination: changing objectives

in the communication of Science and Technology in Denmark. In Claessens, Schiele &

Shunke (Eds): The Development of Public Communication of Science and Technology Studies – A comparative approach. Springer.

2. Other Research Contributions

Conference papers and invited talks (Selected):

Maja Horst (2011): It is probably something I ought to do... University of Auckland Business School, February.

Maja Horst (2010): Scientific Social Responsibility- or how to prepare research leaders of tomorrow to manage science in society. 4th annual conference of the European Forum on Philanthropy and Research Funding, Stuttgart, December.

Maja Horst (2010): Scientific Social Responsibility – Or how to think about science in society. Aarhus University, October.

Maja Horst (2010): Scientific Social Responsibility. EULASUR summerschool, Bariloche Argentina, October.

Maja Horst (2010): What do you learn from your audience? Presented at Dialogic Communication Workshop in Tampere, September.

Ursula Plesner & Maja Horst (2010): Monstrous Models and Virtual Buildings. Presented at 4S conference in Tokyo.

Maja Horst (2010): Do what I do – or not? Research Leaders' views on the organization of science communication. Presented at the CLSTI workshop in Gothenburg, July.

Maja Horst (2010): Communicating Science – shaping scientific identities? Presented at CSPO, Arizona State University, February.

Maja Horst (2009): Public Engagement: challenges to expertise? Invited Keynote at the conference: Revisiting Expertise, Copenhagen, November.

Maja Horst (2009): Looking at research managers as the embodiment of science. Presented at the Aesthetics & Organization workshop series – Looking, Copenhagen, November.

Birgitte Gorm Hansen & Maja Horst (2009): A promise worth funding? Presented at the 4S conference, Washington, October.

Maja Horst (2008): To learn from objections? Presented at the Art and Management conference on Taste, Essex University, November.

Maja Horst (2008): To learn from objections? Presented at the 4S/EAAST Conference, Rotterdam, August.

Maja Horst (2008): Taking our own medicine. Presented at the PCST 10 Conference, Malmo in Sweden, June.

Maja Horst (2008): Valuable Visions – Research applications as future-generating genre. Presented at the second DASTS conference, Århus, June.

Maja Horst (2008): Choosing themes and planning demand-driven science communication. Presented at the AAAS 2008 Conference, Boston, February.

Maja Horst (2008): A European Governance of Science. Presented at the Center for Nanotechnology and Society, Arizona State University, February.

Maja Horst (2008): On Experimenting with Spatial Research Communication. Presented at the New Frontiers in Research and Communication Workshop, CSPO, Arizona State University, February.

Maja Horst (2008): Public engagement with STS: Experimenting with the social science laboratory.

Presented at the workshop on science communication as the co-production of sciences and their publics, Nobel Museum, Stockholm, February.

Maja Horst (2007): The Stem Cell NetWork: Experiments in social science communication. Presented at the NISE network annual Meeting, San Francisco, November.

Maja Horst (2007): Public engagement with STS: Experimenting with the social science laboratory. Presented at the 4S Conference, Montreal, October.

Maja Horst & Alan Irwin (2007): Nations at ease with radical knowledge: Science, technology and consensus in contemporary Europe. Presented at the 4S Conference, Montreal, October.

Maja Horst (2007): Media Power: Public opinion formation about stem cell research in Denmark. Presented at the Bioethics or Biopolitics Workshop, Nordforsk, Espoo, June.

Maja Horst (2007): Learning from objections. Presented at the Dissensus Conference organised by Danish Science Journalists, Copenhagen, 1. June.

Maja Horst (2007): Public deliberation as the solution to controversies about science. Presented at the workshop on Deliberation and Democratic Governance, SCORE, Stockholm, May.

Maja Horst (2007): Experiments in social science communication. Presented at the DASTS Conference, CBS, May.

Rob Hagendijk, Alan Irwin & Maja Horst (2006): Best Practice or Exceptionalism? Participation and scientific governance from a European perspective. Presented at the EASST Conference in Lausanne, August.

3. Five Most Significant Career Research Contributions

- 1. Taking our own medicine on an experiment in science communication. Science and Engineering Ethics, 17(3), 2010. This article reflects on the Stem Cell Network installation. It offers new knowledge about experimenting with different forms of public dialogue that make science communication more socially robust.
- 2. Collective Closure? Public debate as the solution to controversies about science and technology. Acta Sociologica 53(3)195-211. The article contributes to debates about the public understand of science. It shows the inherent tension that comes with expectations from public debate about technologies, and the role public engagement plays in creating practical solutions to controversies.
- 3. The laboratory of Public Debate: understanding the acceptability of stem cell research. Science and Public Policy 35(3)197-205. This demonstrates how compromise in policy formation is a pre-condition for the decision to permit stem cell research.
- 4. Cloning Sensations: Mass Mediated Articulation of Social Responses to Controversial Biotechnology. The article contributes to science communication literature it describes the main cultural dialogues on risk related to human cloning.
- 5. On the shoulders of idiots Re-thinking Science Communication as 'event' (with Michael, M. Science as Culture, 1470-1189, 2010. This article reflects on visitor reactions to a science communication installation. It contributes new lessons for public engagement related to the complex power relations that exist between experts and citizens.

4. Career Interruptions and Special Circumstances: N/A

5. Contributions to Training

PHD Supervisorship

2010- Marie Chimwemwe Degnbol, LIFE, KU

2010- Cecilie Glerup, CBS (Main supervisor)

2010- Anders Koed Madsen, CBS (Main supervisor)

2009- Maria Duclos, KU

2009- Ditte Degnbol, AAU

2008-2011 Dina Friis Jensen, CBS (Main supervisor)

2008-2011 Birgitte Gorm Hansen, CBS (Main supervisor)

2007-2010 Adam Buchhorn, CBS

2006-2009 Ursula Plesner, RUC

Assessment Comittees

2010 PhD thesis, Australian National University,

Assistant Professorship, IT-University, Denmark

PhD thesis, NTNU, Norway

2009 PhD thesis, University of Aarhus, Denmark

PhD thesis, NTNU, Norway

2008 Senior researcher position, University of Aarhus, Denmark

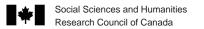
PhD thesis, Aalborg University, Denmark

PhD thesis, CBS

Professor Maja Horst

My work considers the intersection between innovation, science and technology, and the public understanding of science, with a particular focus on developing novel methods for engaging in public dialogues.

- 1. The Stem Cell Network II: Landscape of expectations (with Dalsgård, B). This is a movable installation created in the Spring of 2007, and exhibited at CBS, KU, and Fields. The project is documented at www.stamcellenetvaerket.dk. It is an experiment with spatial research communication. Its aim is to communicate social scientific knowledge about the development of new research and controversial technologies using communication techniques that are dialogical and interactive.
- 2. Taking our own medicine on an experiment in science communication. *Science and Engineering Ethics*, 17(3), 2010. This article is a follow-up reflection on the *Stem Cell Network* installation. It is argued that experimentation in different forms of public dialogue is crucial to making science communication more socially robust.
- 3. On the shoulders of idiots Re-thinking Science Communication as 'event' (with Michael, M. *Science as Culture*, 1470-1189, 2010. This article reflects on the 'wrong' ways in which visitors to a science communication installation engaged, and the lessons that can be learned about the complex power relations that exist between experts and citizens.
- 4. Collective Closure? Public debate as the solution to controversies about science and technology. *Acta Sociologica* 53(3)195-211. The article highlights the inherent tension that comes with expectations from public debate about technologies, and the role public engagement plays in creating practical solutions to public policy controversies.
- 5. The laboratory of Public Debate: understanding the acceptability of stem cell research. *Science and Public Policy* 35(3)197-205. This paper studies the specific processes that went in to the formation of public opinion about stem cell research. It shows how compromise in policy formation is a pre-condition for the decision to permit stem cell research.
- 6. Member of advisory group on Synthetic Biology, Danish Board of Technology. As a member of the advisory board, I was part of the working group comprised of experts from biology, physics, chemistry, philosophy, and knowledge dissemination that made policy recommendations for synthetic biology. The group concluded that it is important that both citizens and professionals debate use of synthetic biology, given that its application raises potentially controversial issues.



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					Internal use	CID (if know	n)	
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Identifi	cation							
Statistical a	and Administrative			able to selection committee member SHRC for administrative and statistic			· ·	
Name								
Family name			Give	n name		Initials	Title	
Irwin			Alan				Dr.	
Citizens	hip - Applicants	and co-applicants must ir	ndicate	e their citizenship status by checkin	g and answerin	g the applica	ble questions.	
Citizenship Canadian Permanent resident status (yyyy/mm/dd)			ince	nce Other (country)			Have you applied for permanent residency?	
				UNITED KINGDOM		_ Ye	s No	
Statistic	al and Admin	istrative Informatio	n					
Birth year	Gender	Permanent postal code in Canada (i.e. K2P1G4)						
1955	○F ●M			● English		Yes (No	
Full name ι	used during previo	ous contact, if different fro	m abo	ove				

Cont	act Inf	ormation						
	The following information will help us to contact you more rapidly. Secondary information will not be released by SSHRC without your express consent.							
Primary	telepho	ne number		Second	lary telep	hone number		
Country code	Area code	Number	Extension	Country code	Area code	Number	Extension	
+45	325	50201						
Primary fax number			Secondary fax number					
Country code	Area code	Number	Extension	Country code	Area code	Number	Extension	
Primary	Primary E-mail airwinsshrc@gmail.com							
Second	lary E-ma	ail						

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Family name, Given name
Irwin, Alan

Current Address Use only if you are not affiliated with a university. (If you are affiliated with a university, the department's mailing a wish to use another address, specify Address.	department at ddress will be	a Canadian used.) If you	Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address.				
Address	_		Address				
Copenhagen Business Scho	Copenhagen Business School						
Kilevej 14a			_				
DK-2000							
			City/Municipality		Prov. / State	Postal/Zip code	
Country DENMARK	Country						
Temporary Address If providing a temporary address, phone number and/or E-mail, ensure that you enter the effective dates.			Permanent Address in CANADA				
Address			Address				
City/Municipality Prov./			City/Municipality		Prov./ State	Postal/Zip code	
Country			Country				
Start date End date (yyyy/mm/dd) (yyyy/mm/dd)			Temporary telephone/fax number Country Area Number code code		xtension		
Temporary E-mail							

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Conseil de recherches en sciences humaines du Canada

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Family name, Given name
Irwin, Alan

Research Expertise (optional

The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

Rank	Code	Area
1	242	Information Technologies
2	360	Science and technology
3	244	Innovation, Industrial and Technological Development

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

From	То
Year	Year
BC AD	BC AD
	O O
	O O

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

" appi	applicable, maleate and raint up to a goographical regione covered by your recourse more construction and more permitted.					
Rank	Code	Region				
1						
2						
3						

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

Rank	Code	Countries	Prov./ State
1			
2			
3			
4			
5			

Personal information will be stored in the Personal Information Bank for the appropriate program.



Conseil de recherches en sciences humaines du Canada

Curriculum Vitae

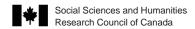
Family name, Given name

Irwin, Alan

Language Pro	oficiency							
Read	Write	Speak	Comprehend a	urally	Other lan			
English X	X	X	X		Danish	, Spanish		
French	Ш	X	X					
Work Experient List the positions, ac chronological order,	ademic and non-		ou have held begi	nning with the	current po	sition and all previous	positions in re	everse
Current position								Start date
Dean of Resea	rch							(yyyy/mm) 2007/1
Org. code	Full organization	n name						
9129108	Copenhage	n Business	s School					
Department/Division	name							
Dean of Resea	rch							
Position type (Tenured	○ No	n-tenure	Employment	status	Full-time	O Part-tii	me
	Tenure-track	○ No	n-academic			Non-salaried	Leave	of absence
Position				•			Start date (yyyy/mm)	End date (yyyy/mm)
Dean							2004/1	2007/1
Org. code	Full organization	n name						
9121125	University	of Liverpo	ool					
Department/Division	name							
Social and Env	vironmental S	Studies						
Position							Start date (yyyy/mm)	End date (yyyy/mm)
Pro-Vice-Char	ncellor						2004/1	2004/12
Org. code	Full organization	n name						
9121108	Brunel Uni	versity						
Department/division	name							
Research and I	Enterprise							
Position							Start date (yyyy/mm)	End date (yyyy/mm)
Acting Dean							2003/1	2004/1
Org. code	Full organization	n name					•	
9121108	Brunel Uni	versity						
Department/Division	name							
Technology an	d Informatio	n Systems	S					
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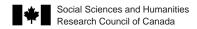
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Family name, Given name
Irwin, Alan

Work Experi	ence (cont'd)		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Dean		2001/1	2004/1
Org. code	Full organization name		
9121108	Brunel University		
Department/Division	name		
Arts and Social	1 Sciences		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Head		1998/1	2001/1
Org. code	Full organization name		
9121108	Brunel University		
Department/Division	name		
Human Science	es		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Lecturer		1989/1	1991/1
Org. code	Full organization name		
9121100	University of Manchester		
Department/Division	name		
Sociology			
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Org. code	Full organization name		
Department/Division	n name		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
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Org. code	Full organization name		
Department/Division	n name		

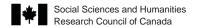
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Family name, Given name
Irwin, Alan

Academic Ba	ackground			
List up to 5 degrees	s, beginning with the highest degree first and all others in reverse chronologic	cal order, bas	sed on the start	date.
Degree type Doctorate	Degree name	Start date (yyyy/mm) 1978/01	Expected date (yyyy/mm)	Awarded date (yyyy/mm) 1980/10
Disc. code	Discipline		Did SSHRC su you to get this	
63499	Science and Technology Policy		Yes	● No
Org. code	Organization			
9121100	University of Manchester			
Country UNITED	KINGDOM			
Degree type	Degree name	Start date	Expected date	Awarded date
Master's		(yyyy/mm) 1976/09	(yyyy/mm)	(yyyy/mm) 1977/10
Disc. code	Discipline	17/0/07	Did SSHRC su	
			you to get this	degree?
63499	Structure & Organization of Science and Technology		Yes	○ No
Org. code	Organization			
9121100	University of Manchester			
Country UNITED	KINGDOM			
Degree type	Degree name	Start date	Expected date	
BA Hon.		(yyyy/mm) 1972/09	(yyyy/mm)	(yyyy/mm) 1976/06
Disc. code	Discipline	17/2/07	Did SSHRC su	
			you to get this	_
63400	Sociology		Yes	● No
Org. code	Organization			
9121134	University of Salford			
Country UNITED	KINGDOM			
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)
Disc. code	Discipline		Did SSHRC su you to get this	pport enable degree?
			Yes	No
Org. code	Organization			
Country				
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)
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Org. code	Organization			
Country				

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Family name, Given name
Irwin, Alan

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List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

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Category	Name	Source or Country	Duration (Months)	Value / Year awarded
Academic Prize	David Edge Prize		0	
				2009
Academic Prize	Vice Chancellor's Award	UNITED KINGDOM		\$0
				1976

Dagagak	Expertise
Research	Expertise
100001	

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

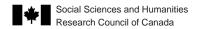
science and technology policy, sociology, managment

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

Rank	Code	Discipline	If Other, specify
1	63400	Sociology	
2	62600	Management, Business, Administrative Studies	
3			
4			
5			

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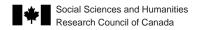


Family name, Given name

		Irwir	i, Alan			
Funded	Research	<u>, </u>				
List up to 8 grants or contracts you have received from SSHRC or other sources. List them in reverse chronological order, based on the year awarded. If you are not the applicant (principal investigator), specify that persons' name.						
Org. code	Full name of funding organization Leverhulme Trust		Year awarded (yyyy)	Тс	otal amount (CAN\$)	
1				\$2	,113,310	
Role	Co-applicant		Completion statu	us X	Complete	
Project title Public understanding of risk: perception, trust and stakeholder participation in public policy						
Applicant's family name Applicant's given no					Initials	
Irwin						
Org. code	Full name of funding organization		Year awarded	To	otal amount	
	European Commission		(yyyy)		(CAN\$)	
1			2001	\$	553,628	
Role Co-applicant			Completion statu	Completion status X Complete		
Project title Science, Technology and Governance in Europe'						
Applicant's f	amily name	Applicant's given name			Initials	
Irwin						
Org. code	Full name of funding organization		Year awarded	To	otal amount	
	The Economic and Social Research	ch Council	(yyyy) 2000	4	(CAN\$)	
1			2000		519,752	
Role	Applicant		Completion statu	us X	Complete	
Project title The social dynamics of controversy and control in the biosciences'						
Applicant's f	amily name	Applicant's given name			Initials	
Org. code	Full name of funding organization		Year awarded	To	otal amount	
1	Economic and Social Research Co	ouncil	(yyyy)		(CAN\$)	
1			1998	\$	105,325	
Role	Role Applicant Completion status X Complete					
Project title	New Opportunities Programme in	the `Public Understanding	g of Science'			
Applicant's f	amily name	Applicant's given name			Initials	

Personal information will be stored in the Personal Information Bank for the appropriate program.





Family name, Given name
Irwin, Alan

Funded	Research (cont'd)				
Org. code	Full name of funding organization The Economic and Social Research	ch Council	Year awarded (yyyy)	Total amount (CAN\$)	
1	The Leononne and Social Research	en Councii	1994	\$179,873	
Role	Co-applicant		Completion status	X Complete	
Project title Regulatory Science; industry, academic research and the European control of chemical toxicity					
Applicant's f	amily name	Applicant's given name		Initials	
Irwin					
Org. code	Full name of funding organization		Year awarded (yyyy)	Total amount (CAN\$)	
1	European Commission		1994	\$484,158	
Role	Co-applicant		Completion status		
Project title	The social management of environ	mental change	'		
The social management of environmental entinge					
Applicant's f	amily name	Applicant's given name		Initials	
Irwin					
Org. code	Full name of funding organization		Year awarded (yyyy)	Total amount (CAN\$)	
1	European Economic Community		1992	\$58,583	
Role	Co-applicant		Completion status X Complete		
Project title	The environmental consequences of	of plastics innovation in the au	itomobile secto	or	
Applicant's f	amily name	Applicant's given name		Initials	
Irwin					
Org. code	Full name of funding organization	1.0 '1	Year awarded (yyyy)	Total amount (CAN\$)	
The Economic and Social Research Council			1990	\$53,134	
Role Applicant Completion status X Comp					
Project title	Clean Technology: an evaluation of	of policy making and impleme	·	_ ·	
Applicant's f	amily name	Applicant's given name		Initials	

Personal information will be stored in the Personal Information Bank for the appropriate program.



1.Research Contributions in the Last Six Years (2005-2011)

Refereed Contributions

Books: Monographs

- R Irwin, A. and Michael, M., <u>Science, Social Theory and Public Knowledge</u>. (Open University Press, Maidenhead; 2003) ISBN 0335209475
- R Irwin, A., <u>Sociology and the Environment: a critical introduction to society, nature and knowledge</u>. (Polity, Cambridge; 2001) ISBN 0-7456-1359-4 (hardback) and 0-7456-1360-8 (paperback)
- R Irwin, A., <u>Ciencia Cidada</u> (Portuguese translation of <u>Citizen Science</u>) (Instituto Piaget, Lisboa: 1999). ISBN 972-771-059-X (paperback). Also translated into Korean (Dangdae, 2011).
- R Irwin, A., <u>Citizen Science</u>; a study of people, expertise and sustainable development (Routledge, London; 1995). ISBN 0-415-11548-5 (hardback) and 0-415-13010-7 (paperback)
- R Irwin, A., <u>Risk and the Control of Technology</u> (Manchester University Press; 1985; reprinted as paperback 1987). ISBN 0-7190-1723-8 (hardback) and 0-7190-1829-3 (paperback)
- R Irwin, A., (with various authors), <u>Cancer in Britain</u> (Pluto Press, London; 1983). ISBN 0-86104-394-4 (paperback)
- R Stilgoe, J., Irwin, A., Jones, K., <u>The Received Wisdom: opening up expert advice</u>. (Demos, London: 2006) ISBN 1-84180-170-4

Edited Books

- Molin, J. and Irwin, A. (eds), <u>The Distinctiveness of Diversity: CBS</u>, a case in point. Festschrift for Finn Junge-Jensen, President of CBS 1987-2009. (CBS, Copenhagen: 2009) ISBN 978-87-993186
- R Irwin, A. and Wynne, B., (eds) <u>Misunderstanding Science? the public reconstruction of science and technology</u> (Cambridge University Press, Cambridge; 1996). ISBN 0-521-43268-5

Book Chapters

- R Irwin, A., 'Foreword'. In Dowty, R.A. and Allen, B.L. (eds) <u>Dynamics of Disaster: lessons in risk, response and recovery</u> (Earthscan, London and Washington DC: 2011) ppxv-xix.
- R Jones, K.E. and Irwin, A., 'Creating space for engagement? Lay membership in contemporary risk governance'. In Hutter, B.M. (ed) <u>Anticipating Risks and Organising Risk Regulation in the 21st Century</u> (Cambridge University Press, Cambridge: 2010) pp185-207
- R Fischbacher-Smith, D., Irwin, A. And Fischbacher-Smith, M., 'Bringing light to the shadows and shadows to the light: risk, risk management and risk communication'. In Bennett, P., Calman, K., Curtis, S. and Fischbacher-Smith, D., (eds) <u>Risk Communication and Public Health</u> (Oxford University Press, Oxford: 2010) pp23-38.
- R Irwin, A., 'Foreword'. In Lidskog, R., Soneryd, L. And Uggla, Y., <u>Transboundary Risk</u> Governance (Earthscan, London and Sterling, VA: 2010) ppxiii-xvii
- R Irwin, A., 'Moving forwards or in circles? Scientific communication and scientific governance in an age of innovation'. In Holliman, R., Whitelegg, E., Scanlon, E., Smidt, S. and J. Thomas (eds)

 Investigating Science Communication in the Information Age: implications for public engagement and popular media (Oxford University Press, Oxford: 2008) pp3-17.
- R Irwin, A., 'Science, Democracy, and Social (Dis)order: some concluding reflections'. In Stehr, N. (ed) <u>Knowledge and Democracy: a 21st century perspective</u> (Transaction Publishers, New Brunswick and London: 2008). pp217-226.
- R Irwin, A., 'Risk, science and public communication: third order thinking about scientific culture'. In Bucchi, M. and Trench, B. (eds) <u>Handbook of Public Communication of Science and Technology</u> (Routledge, London and New York 2008) pp199-212
- R Irwin, A., 'STS perspectives on scientific governance'. In Hackett, E.J, Amsterdamska, O., Lynch, M. and Wajcman, J. (eds) <u>The Handbook of Science and Technology Studies</u> Third Edition (MIT

- Press, Cambridge MA: 2008) pp583-607.
- R Irwin, A., 'Public dialogue and the scientific citizen'. In Flynn, R. and Bellaby, P. (eds) <u>Risk and the Public Acceptance of New Technologies</u>. (Palgrave-Macmillan, Basingstoke: 2007) pp24-40.
- R Irwin, A., 'Beyond the toolkit: bringing engagement into practice'. In Turney, J. (ed) <u>Engaging Science</u>: thoughts, deeds, analysis and action. (Wellcome Trust, London: 2006) pp50-55.
- R Irwin, A., 'The global context for risk governance: national regulatory policy in an international framework'. In Bennett, B. and Tomossy, G. (eds) <u>Globalization and Health: challenges for health law and bioethics</u>. (Springer, Amsterdam: 2006) pp71-85.
- R Irwin, A. and Horst, M., 'Science, technology and governance in Europe: lessons from the STAGE project'. In Centro de Gestão e Estudos Estratégicos (ed) <u>Ciência, Tecnologia e Sociedade: novos modelos de governança</u> (CGEE, Brasilia: 2005) pp15-46.
- R Irwin, A., Entries on 'sociology of the environment' (Vol. 1: pp305-07) and 'risk society' (Vol. 2: pp884-6) in Kuper, A. and Kuper, J. (eds) <u>The Social Science Encyclopedia</u>. Third Edition. (Routledge, London: 2005).

Journal Articles

- R Irwin, A., Jensen, T.E., Jones, K.E., 'The good, the bad and the perfect: anticipating engagement amidst critical regimes'. Submitted to <u>Social Studies of Science</u> (July 2011)
- R Horst, M. and Irwin, A., 'Nations at Ease with Radical Knowledge: on consensus, consensusing and false consensusness'. Social Studies of Science Vol 40(1) 2010 pp105-126.
- R Irwin, A., 'Se confronter à l'engagement: discussion autour de trois perspectives critiques'. Questions de Communication. Vol 17. 2010 pp107-128
- R Horst, M., Irwin, A., Healey, P. and Hagendijk, R., 'European scientific governance in a global context: resonances, implications and reflections'. <u>IDS Bulletin</u>. Vol 38(5) 2007 pp6-20.
- R Smith, D. and Irwin, A. 'Complexity, risk and emergence: elements of a "management" dilemma'. Risk Management: an international journal. Vol 8(4) 2006 pp221-26.
- R Hagendijk, R. and Irwin, A., 'Public deliberation and governance: engaging with science and technology in contemporary Europe'. Minerva Vol. 44(2) 2006 pp167-184.
- R Irwin, A., 'The politics of talk: coming to terms with the "new" scientific governance.' <u>Social</u> Studies of Science Vol. 36(2) 2006. pp299-320.

2. Other Research Contributions

I am regularly invited to give lectures and presentations to national and international audiences. I will not list these here but will give as examples my upcoming keynote presentations to the Irish Academy of Management and at Seoul National University, and talks over the last year at Harvard, Tokyo, Trondheim, Florianopolis and the Society for Risk Analysis in London.

3. Five Most Significant Career Research Contributions (for Regular Scholars)

- 1. Citizen Science: A study of people, expertise and sustainable development. London: Routledge, 1995. This book advanced core tenants and practices of how citizen knowledge and experience can be incorporated into a more reflexive, socially robust form of science. It is now widely recognized as a core text in the broader field of public engagement within science and technology studies.
- 2. Misunderstanding Science? the public reconstruction of science and technology (with Wynne, B). Cambridge: Cambridge University Press, 1996. This edited collection brings together experts concerned with the public understand of science. It is a core text in science-society relations.
- 3. The politics of talk: coming to terms with the "new" scientific governance. Social Studies of Science Vol. 36(2) 2006. pp299-320. The article was awarded the David Edge Prize in 2009 from the Society for the Social Studies of Science (4S) for the best peer reviewed paper. It discusses the complex process of engaging with the public.

- 4. Science, Social Theory and Public Knowledge (with Michael, M.). Maidenhead: Open University Press, 2003. This text brings together more recent theoretical ideas in the field of science studies public understanding of science, scientific and public governance, and social theory through in-depth case studies.
- 5. Sociology and the Environment: a critical introduction to society, nature and knowledge. Cambridge: Polity, 2001. This book outlines the contribution that sociology brings to the pressing environmental problems of our day the coming risks, hazards and changes.

4. Career Interruptions and Special Circumstances: N/A

5.Contributions To Training

External Examiner to PhD theses: University of Aston (1988), University of Bristol (1997), Cardiff University (2006, 2010), Copenhagen Business School (2003), Copenhagen University (2010), Danish Technical University (2010), University of Dublin (2002), University of Durham (1998), University of East Anglia (1999, 2002, 2007), University of Lancaster (1992, 1994, 1997, 2002), University of Leeds (1986 and 1987), Liverpool John Moores University (1998), Imperial College London (1999), University College London (2003), University of Manchester (2001), Manchester Metropolitan University (2007), University of Nottingham (2007), University of Sussex (1992, 1995), University of Technology Sydney (2002).

External Examiner (2004-10): Open University. MSc in Science and the Public

External Examiner (2004-6): Goldsmiths College, University of London. Department of Sociology

External assessor (2002): University of Edinburgh, postgraduate programme in Science Studies

External Assessor (1997): University of Leicester, M.Sc. in Risk, Crisis and Disaster Management

External Examiner (1996-2002): University of Salford, M.Sc. in Technology and Society

External Examiner (1992-1996): University of the West of England, Masters programme in Social Sciences

External Examiner (1991-1996): Manchester Metropolitan University, Diploma in Public Health External Assessor (1991): University of the West of England, postgraduate programme in Social Sciences

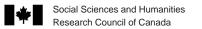
External Assessor (1989): Manchester Polytechnic, undergraduate programme in Combined Studies.

Professor Alan Irwin – Relevant Experience

My work primarily concerns the relations between science and society, and more specifically how to engage citizens' knowledge and experience with scientific expertise. My academic work and current administrative duties have involved extensive interdisciplinary collaboration with citizens, scientists, regulators, and policy makers.

- 1. Acting President (2011) and Dean of Research (2007-12), Copenhagen Business School. Since 2007, I have had responsibility for the main academic salary budget, for departmental management, for external research funding, for PhD students, and for academic recruitment. As such, I have extensive experience in collaborating across different disciplines and communities.
- 2. Citizen Science: A study of people, expertise and sustainable development. London: Routledge, 1995. This book advanced core tenants and practices of how citizen knowledge and experience can be incorporated into a more reflexive, socially robust form of science. The text is now widely recognized as a core book in the broader field of public engagement within science and technology studies. Cited 987 times (Google Scholar).
- 3. *Misunderstanding Science? the public reconstruction of science and technology* (with Wynne, B). Cambridge: Cambridge University Press, 1996. This edited collection brings together experts concerned with the public understand of science. Through in-depth case studies across a variety of fields, it shows how many of the problems with modern science in terms of uptake, authority and effectiveness could be overcome through more reflexivity and openness. Cited 829 times (Google Scholar).
- 4. Science, Social Theory and Public Knowledge (with Michael, M.). Maidenhead: Open University Press, 2003. This book brings together three different perspectives on science and society relations: public understanding of science, scientific and public governance, and social theory. Using in-depth case studies, it contributes to the debates about how to bridge science and society relationships. Cited 288 times (Google Scholar).
- 5. The politics of talk: coming to terms with the "new" scientific governance. Social Studies of Science Vol. 36(2) 2006. pp299-320. The article was awarded the David Edge Prize in 2009 from the Society for the Social Studies of Science (4S) for the best peer reviewed paper. It discusses the complex process of engaging with the public, including the relationship between talk and trust, the search for the good citizen, and pursuit of social consensus. Cited 247 times (Google Scholar).
- 6. Chair (2008-10) and Member (2005-7) of UK Biotechnology and Biological Sciences Research Council (BBSRC) Bioscience for Society Strategy Panel. Currently, member of the UK Global Food Security Strategy Advisory Board.
- 7. Editor, *Risk Management: an international journal*. Acting editor of the journal published by Palgrave Macmillan, which aims to facilitate the exchange of information and expertise across countries and across disciplines, and promote good practices for those involved in managing risk.

8. European Commission: academic coordinator of thematic network on 'Science, Technology and Governance in Europe' (STAGE). The STAGE project involved extensive collaboration across eight countries, whose aims were to develop a heuristic model of science and technology governance in Europe. It also involved building many different sorts of collaboration across academic, citizen and policy groups.

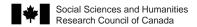


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Name	Name							
Family nam	ne		Giver	n name		Initials	Title	
Jack			Stilg	goe			Dr.	
Citizensl	hip - Applicants a	and co-applicants must in	dicate	e their citizenship status by checkin	g and answerin	g the applica	ble questions.	
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Family name, Given name
Jack, Stilgoe

Current Address Use only if you are not affiliated with a university. (If you are affiliated with a university, the department's mailing a wish to use another address, specify it Address.	department at a Canadian ddress will be used.) If you	Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address.			
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Conseil de recherches en sciences humaines du Canada

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Family name, Given name

Jack, Stilgoe

Research Expertise (optional)	Research	Expertise ((optional)
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The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

Rank	Code	Area
1	244	Innovation, Industrial and Technological Development
2	360	Science and technology
3	320	Politics and government

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

From	То
Year	Year
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Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

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Rank	Code	Region					
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Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

Rank	Code	Countries	Prov./ State
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Curriculum Vitae

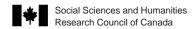
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Language Proficiency								
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French	Ш	Ш	Ш					
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Position type	Tenured	○ Non	-tenure	Employmen	t status	Full-time	Part-tir	ne
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Position							Start date (yyyy/mm)	End date (yyyy/mm)
Senior Policy	Advisor						2009/1	2011/1
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1	The Royal So	ciety						
Department/Division	name							
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Position							Start date (yyyy/mm)	End date (yyyy/mm)
Senior Researc	cher						2006/1	2009/1
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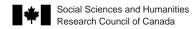




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Work Experie	ence (cont'd)				
Position Start date (yyyy/mm)					
Postdoctoral fe	llow or associate	2004/1	(yyyy/mm) 2005/1		
Org. code	Full organization name				
9121153	University College London				
Department/Division	name				
Science and Te	echnology Studies				
Position		Start date	End date (yyyy/mm)		
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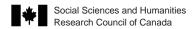
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Academic Ba	ackground			
List up to 5 degrees	s, beginning with the highest degree first and all others in reverse chronologic	cal order, bas	sed on the start	date.
Degree type Doctorate	Degree name	Start date (yyyy/mm) 2000/01	Expected date (yyyy/mm)	Awarded date (yyyy/mm) 2004/01
Disc. code	Discipline		Did SSHRC su you to get this	
63499	Sociology of Science		Yes	No
Org. code	Organization			
9121153	University College London			
Country UNITED	O KINGDOM			
Degree type	Degree name	Start date	Expected date	Awarded date
Master's		(yyyy/mm) 1999/01	(yyyy/mm)	(yyyy/mm) 2000/01
Disc. code	Discipline	1999/01	Did SSHRC su	
D100. 00dc	Biodipline		you to get this	degree?
63499	Science and technology policy		Yes	● No
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9121100	University of Manchester			
Country UNITED	KINGDOM			
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61000	Economics		Yes	● No
Org. code	Organization			
9121100	University of Manchester			
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List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

Category	Name	Source or Country	Duration (Months)	Value / Year awarded

Dacaarah	Expertise
Research	Experuse

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

innovation, science and technology studies, science policy, public policy

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

Rank	Code	Discipline	If Other, specify
1	63400	Sociology	
2			
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1.Research Contributions in the Last Six Years (2005-2011) Refereed Contributions

Book Chapters

- R 'How can new technologies fulfil the needs of developing countries?' in *Nanotechnology Applications: Solutions for Improving Water Quality*, William Andrew Publishing, 2009 (reprinted in Cozzens, Susan E.; Wetmore, Jameson (Eds.) *Nanotechnology and the Challenges of Equity, Equality and Development*, Springer, 2011) (with David Grimshaw and Lawrence Gudza)
- R 'The new politics of public engagement with science,' in *Investigating Science Communication in the Information Age: Implications for public engagement and popular media* Richard Holliman, Elizabeth Whitelegg, Eileen Scanlon, Sam Smidt, Jeff Thomas, Oxford University Press, 2008 (with James Wilsdon)
- R 'The Rules of Engagement: Dialogue and Democracy in Creating Nanotechnology Futures' in *Nanoethics: The ethical and social implications of nanotechnology*, Wiley, 2007 (with James Wilsdon)
- R 'Between people and power: Nongovernmental organisations and public engagement' ch. 10 in *Engaging Science: Thoughts, deeds, analysis and action*, Wellcome Trust, 2006
- R 'Mobile Telephones' and 'Catamarans', articles for the *Encyclopædia of 20th Century Technology*, London: Routledge, 2005

Journal Articles

- R 'Pathologising the public from upstream engagement to responsible innovation' forthcoming in 'Nanotechnology and Democracy', *2011 Yearbook of Nanotechnology in Society* (Miller C and Barben D eds), Springer
- R 'A question of intent', *Nature Climate Change*, Vol. 1, No. 7, 11 Sept 2011
- 'Experts and Anecdotes The role of 'anecdotal evidence' in public scientific controversies', *Science*, *Technology and Human Values* Vol. 34, No. 5, 654-677, 2009 (with Alfred Moore)
- R 'The (co-)production of public uncertainty: UK scientific advice on mobile phone health risks' *Public Understanding of Science*, Vol. 16, No. 1, 45-61, 2007
- R 'Controlling mobile phone health risks in the UK: A fragile discourse of compliance', *Science and Public Policy*, Volume 32, Number 1, 1 February 2005, pp. 55-64(10)

Non-Refereed Contributions

Magazines

'Dr Finlay is Dead' *The Guardian*, CommentIsFree, May 15th 2008,

 $(\underline{http://www.guardian.co.uk/comment is free/2008/may/15/benbradshawinvokes the views})$

'It's good to talk,' Opinion piece in *Times Higher Education*, 31st January 2008

 $(\underline{www.timeshighereducation.co.uk/story.asp?sectioncode=26\&storycode=400357\&c=1)\\$

'Three words we should like to hear: 'I don't know'', Opinion piece in *Times Higher Education Supplement*, 19th January 2007

(www.timeshighereducation.co.uk/story.asp?sectioncode=26&storycode=207521)

'Between hype and doom: keeping an eye on nanotech', 21st April 2006, *Opendemocracy* (www.opendemocracy.net/globalization-vision_reflections/nanotechnology_3468.jsp)

'Challenging the received wisdom: the role of expertise in decision making,' *Transformation*, Spring 2007

Various articles on innovation, expertise, and science and society in *Science and Public Affairs*, *Elements* and *Parliamentary Monitor*

Review Essays (Selected)

'The Politics of Data, A review of J Gleick, The Information,' The Lancet, Volume 378, Issue 9791,

Page 559, (http://www.thelancet.com/journals/lancet/article/PIIS0140-6736(11)61277-4/fulltext)

'Why scientists need to get a life, A review of S Shapin, The Scientific Life,' The Lancet, Volume 373, Issue 9680, Pages 2015-2016,

(http://www.thelancet.com/journals/lancet/article/PIIS0140-6736(09)61096-5/fulltext)

'Handle with care, A review of A Mol, The Logic of Care,' The Lancet, Volume 371, Issue 9631, Pages 2163-2164,

(http://www.thelancet.com/journals/lancet/article/PIIS0140-6736(08)60938-1/fulltext)

Assorted book reviews for Science and Public Policy, Health, Risk and Society and The Lancet

Policy Reports

The Scientific Century – Securing out future prosperity (as project director and lead author), Royal Society, 2010 (http://royalsociety.org/The-scientific-century/)

The Global Governance of Science, Report of the Expert Group on Global Governance of Science, 2009 (as Rapporteur) (http://ec.europa.eu/research/science-society/document_library/pdf_06/global-governance-020609_en.pdf)

Citizen Scientists – Reconnecting science with civil society, Demos, 2009

(www.demos.co.uk/publications/citizenscientists)

Knowledge Nomads - why science needs migration (with Natalie Day), Demos, 2009

(www.demos.co.uk/publications/knowledgenomads)

The Talking Cure – Why conversation is the future of healthcare, (with Faizal Farook) Demos, 2008 (www.demos.co.uk/publications/thetalkingcure)

Nanodialogues – Experiments in public engagement with science, Demos,

2007(www.demos.co.uk/publications/nanodialogues)

Featured in a Nature editorial, '*Enough talk already*', Nature, 448, 5th July 2007, p.1 (www.nature.com/nature/journal/v448/n7149/index.html)

'Doctor, the patient will see you now – participating and innovating in healthcare' (with Faizal Farook) ch. 3 in *Unlocking Innovation*, Demos, 2007 (www.demos.co.uk/publications/unlockinginnovation)

The Received Wisdom – Opening up expert advice (with Alan Irwin and Kevin Jones) Demos, 2006 (www.demos.co.uk/publications/receivedwisdom)

The Public Value of Science – Or how to ensure science really matters (with James Wilsdon and Brian Wynne) Demos, 2005 (www.demos.co.uk/publications/publicvalueofscience)

'Between people and power: Nongovernmental organisations and public engagement' ch. 10 in *Engaging Science: Thoughts, deeds, analysis and action*, Wellcome Trust, 2006 (http://www.wellcome.ac.uk/About-us/Publications/Books/WTX032706.htm)

Evidence, expertise and engagement – a report for the board of the Food Standards Agency (with James Wilsdon) Demos/FSA, 2006 (www.food.gov.uk/multimedia/pdfs/fsa061004b.pdf)

2. Other Research Contributions

Press and other media

Interviewed on *Radio 4 Today* programme, 30th November 2006, about science and innovation policy Interviewed on *Farming Today*, Jan 18th 2008, about the politics of genetically-modified crops

3. Five Most Significant Career Research Contributions

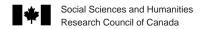
1. The Received Wisdom – Opening up expert advice (with Alan Irwin and Kevin Jones) Demos, 2006. This pamphlet considers how governments can open up the process of expert advice to involve a wider range of perspectives beyond the simple model of 'evidence-based policy.' It contributes to debates about the public understanding of science and citizen engagement, with particular focus on communicating these approaches to people in policy and government.

- 2. Nanodialogues Experiments in public engagement with science. Demos, 2007. The pamphlet describes findings from the Nanodialogues project, which attempted to incorporate upstream engagement into nanotechnology governance.
- 3. 'The (co-)production of public uncertainty: UK scientific advice on mobile phone health risks' *Public Understanding of Science*, Vol. 16, No. 1, 45-61, 2007. This paper draws from qualitative interviews with policy makers and scientists. It outlines how publics can be constructed as instruments of credible policymaking. It contributes new knowledge for improving the public understanding of science.
- 4. 'Experts and Anecdotes The role of 'anecdotal evidence' in public scientific controversies', *Science*, *Technology and Human Values* Vol. 34, No. 5, 654-677, 2009 (with Alfred Moore). This paper considers the central role that 'anecdotal evidence' plays in scientific debates, and how it changes shape at the boundary point between scientists and non-scientists.
- 5. The Rules of Engagement: Dialogue and Democracy in Creating Nanotechnology Futures' in Nanoethics: The ethical and social implications of nanotechnology. Wiley, 2007 (with James Wilsdon). The paper reflects on the People's Inquiry into Nanotechnologies in the UK, and how a group of 13 ordinary citizens contributed to discussions about the societal impact of nanotechnologies.
- 4. Career Interruptions and Special Circumstances: N/A
- **5.Contributions to Training:** N/A

Professor Jack Stilgoe

My work deals with the theory and practice of science policy. I work with academics, policy makers, and the media to advance debates on emerging technologies, public engagement with science, the use of expert advice, and the value of innovation.

- 1. Nanodialogues Experiments in public engagement with science. Demos, 2007. This pamphlet presents the findings of the Nanodialogues a series of experiments in upstream public engagement with different partners in different contexts. It is grounded in the idea that as nanotechnology and new forms of participatory governance coincide, there is great opportunity to reimagine the relationship between science and democracy.
- 2. The Rules of Engagement: Dialogue and Democracy in Creating Nanotechnology Futures' in Nanoethics: The ethical and social implications of nanotechnology. Wiley, 2007 (with James Wilsdon). The paper reflects on the People's Inquiry into Nanotechnologies in the UK, and how a group of 13 ordinary citizens contributed to discussions about the societal impact of nanotechnologies.
- 3. The Received Wisdom Opening up expert advice (with Alan Irwin and Kevin Jones) Demos, 2006. This pamphlet considers how governments can open up the process of expert advice to involve a wider range of perspectives beyond the simple model of 'evidence-based policy.' Drawing on recent case studies and research with lay members of expert committees, it looks to a new model of expertise which is more diverse, takes better account of uncertainty, is aware of its context and trusts the public.
- 4. How can new technologies fulfil the needs of developing countries? in Nanotechnology Applications: Solutions for Improving Water Quality. William Andrew Publishing, 2009. The paper considers how emerging nanotechnologies can assist with practical and pressing social problems in developing countries.
- 5. 'Pathologising the public from upstream engagement to responsible innovation' forthcoming in 'Nanotechnology and Democracy', 2011 Yearbook of Nanotechnology in Society. Springer. The paper outlines how upstream engagement with citizens contributes to a more open and responsible process of nanotechnology innovation grounded in the needs and concerns of the public.
- 6. Chair of Sciencewise Subgroup on GM dialogue. I chaired a subgroup on the genetically modified group dialogue for Sciencewise, which is the UK's national centre for public dialogue in policy making involving science and technology issues. Many of the lessons learned in the GM case are applicable to issues currently facing nanotechnology development.



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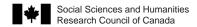
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						293976	5	79168	
Identifi	cation								
Statistical a	and Adminis	trative			able to selection committee member SHRC for administrative and statistic				
Name									
Family nam	ne			Give	n name			Initials	Title
Jones				Kev	vin .			Е	Dr.
Citizensl	hip - Appli	cants a	and co-applicants must in	dicate	e their citizenship status by checkin	g and ansv	wering	g the applica	able questions.
Citizenship status	Cana	dian (Permanent resident si (yyyy/mm/dd)	nce	Other (country)				ou applied for nent residency?
						es No			
Statistica	al and Ad	lmini	strative Information	n					
Birth year	Gender		Permanent postal code in Canada (i.e. K2P1G4)		orrespondence language	1		s contact wit blicant, asse	
1973	○F (М	Т6Ј0К7		● English		(Yes	No

The following	Contact Information The following information will help us to contact you more rapidly. Secondary information will not be released by SSHRC without your express consent.							
Primary tele	phon	e number		Second	ary telep	hone number		
Country Area		Number	Extension	Country code	Area code	Number	Extension	
1 78	0	9102878		1	780	4921746		
Primary fax	numl	ber		Secondary fax number				
Country Area		Number	Extension	Country code	Area code	Number	Extension	
Primary E-mail k.e.jones@ualberta.ca								
Secondary E	E-ma	ikevinedsonjones@	yahoo.com					

Web CV 2011/11/17 **Canadä**

Checked

Full name used during previous contact, if different from above



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Family name, Given name Jones, Kevin

Current Address Use only if you are not affiliated with a university. (If you are affiliated with a university, the department's mailing ac wish to use another address, specify it Address.	Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address.						
Address			Address				
City/Municipality	Prov. / State	Postal/Zip code	City/Municipality		Prov. / State	Postal/Zip code	
Country CANADA	•		Country	,	'		
Temporary Address If providing a temporary address, phorensure that you enter the effective date.		/or E-mail,	Permanent Address in CANADA				
Address			Address 10920 38 Avenue				
City/Municipality	Prov./ State		City/Municipality Edmonton		Prov./ State	Postal/Zip code	
Country	Country CANADA						
Start date End date (yyyy/mm/dd) (yyyy/mm/dd)			Temporary telephone/fax number Country Area Number code code	E	xtension		
Temporary E-mail							

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Conseil de recherches en sciences humaines du Canada

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Family name, Given name

Jones, Kevin

Research I	Expertise ((Op	otional))
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The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

Rank	Code	Area
1	360	Science and technology
2	180	Environment and Sustainability
3	320	Politics and government

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

From	То
Year	Year
BC AD	BC AD
O O	O O
O O	O O

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

" app.	applicable, maleate and raint up to a geographical regions covered by your research interested. Bupiloute orthographic						
Rank	Code	Region					
1	3200	Western Europe					
2	1000	North America					
3	1130	Western Canada					

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

Rank	Code	Countries	Prov./ State
1	3225	UNITED KINGDOM	
2	1100	CANADA	
3	6404	INDIA	
4			
5			

Personal information will be stored in the Personal Information Bank for the appropriate program.



Conseil de recherches en sciences humaines du Canada

Curriculum Vitae

Family name, Given name

Jones, Kevin

Language Pro	oficiency							
Read	Write	Speak	Comprehend a	urally	Other lan	guages		
English X	X	X	X					
French	Ш	X	X					
Work Experie		rademic vo	ou have held hegi	nning with the	current no	sition and all previous	nositions in re	overse
chronological order,			- Tavo Hola bogi		, carront po		positiono in re	770100
Current position								Start date (yyyy/mm)
Research Asso	ociate							2010/4
Org. code	Full organization	name						
1480111	University of	f Alberta						
Department/Division	name							
Faculty of Ext	ension							
Position type (Tenured	● No	n-tenure	Employmen	t status	Full-time	Part-tin	me
	Tenure-track	○ No	n-academic			Non-salaried	Leave	of absence
Position				•			Start date (yyyy/mm)	End date (yyyy/mm)
Lecturer							2004/12	2009/12
Org. code	Full organization	name						
9121125	University of	of Liverpo	ool					
Department/Division	name							
Management S	School							
Position							Start date (yyyy/mm)	End date (yyyy/mm)
Senior Research	ch Fellow						2003/1	2004/12
Org. code	Full organization	name						
9121108	Brunel Univ	versity						
Department/division	name							
Human Science	es							
Position							Start date (yyyy/mm)	End date (yyyy/mm)
Teaching Assi	stant						1999/9	2002/6
Org. code	Full organization	name						
9121108	Brunel Univ	versity						
Department/Division	name							
Human Scienc	es							
Personal information will	be stored in the Pers	onal Informati	on Bank for the app	ropriate progran	n.			Web CV

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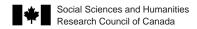


Family name, Given name

Jones, Kevin

Work Experience	ence (cont'd)		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Research Assis	stant	1999/4	2001/9
Org. code	Full organization name		
1350211	Carleton University		
Department/Division	name		
Sociology and	Anthropology		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Teaching Assis	stant	1997/9	1999/5
Org. code	Full organization name		
1350211	Carleton University		
Department/Division	name		
Sociology and	Anthropology		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
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Department/Division	name		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
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Department/Division	n name		

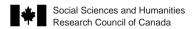
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Family name, Given name
Jones, Kevin

Academic B	ackground			
List up to 5 degrees	s, beginning with the highest degree first and all others in reverse chronologic	cal order, bas	sed on the start	date.
Degree type Doctorate	Degree name	Start date (yyyy/mm) 1999/09	Expected date (yyyy/mm)	Awarded date (yyyy/mm) 2004/03
Disc. code	Discipline		Did SSHRC su you to get this	
63499	Science and Technology Studies		Yes	● No
Org. code	Organization			
9121108	Brunel University			
Country UNITED	KINGDOM			
Degree type	Degree name	Start date	Expected date	Awarded date
Master's		(yyyy/mm) 1997/09	(yyyy/mm)	(yyyy/mm) 1999/11
Disc. code	Discipline	1997/09	Did SSHRC su	
2.00. 00 00	2.00p0		you to get this	
63400	Sociology		Yes	● No
Org. code	Organization			
1350211	Carleton University			
CANAD	OA .			
Degree type	Degree name	Start date	Expected date	Awarded date
BA Hon.		(yyyy/mm) 1993/09	(yyyy/mm)	(yyyy/mm) 1997/10
Disc. code	Discipline		Did SSHRC su	pport enable
63499	Sociology with concentration in Political Science		you to get this	degree?
Org. code	Organization		0.55	<u> </u>
9121108	Brunel University			
Country				
UNITEL	KINGDOM			
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)
Disc. code	Discipline		Did SSHRC su you to get this	pport enable degree?
			Yes	No
Org. code	Organization			
Country				
Degree type	Degree name	Start date	Expected date	
		(yyyy/mm)	(yyyy/mm)	(yyyy/mm)
Disc. code	Discipline		Did SSHRC su	
			Yes	No
Org. code	Organization			
Country				

Canadä



Family name, Given name

Jones, Kevin

Credentials

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

Category	Name	Source or Country	Duration (Months)	Value / Year awarded
Academic Prize	Overseas Research Scholarship - British Council	UNITED KINGDOM	24	1999
Graduate Scholarship	Departmental Scholarship and Teaching Studentship	University CANADA	24	1997
Academic Prize	Award of Merit	University CANADA	24	1995
Academic Prize	Award of Excellence	CANADA	12	1994
Academic Prize	Dean's List	University CANADA	48	1993

Research Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

science and technology studies; environmental governance; public understanding of science; scientific policy-making

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

Rank	Code	Discipline	If Other, specify
1	63499	Other Sociology	Science and Technology Studies
2	62820	Public Policy Studies	
3	61406	Regional Planning	
4			
5			

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Family name, Given name	
Jones, Kevin	

Funded Research					
List up to 8 grants or contracts you have received from SSHRC or other sources. List them in reverse chronological order, based on the year awarded. If you are not the applicant (principal investigator), specify that persons' name.					
Org. code	Full name of funding organization	Year awarded	Total amount (CAN\$)		
1	Killam Trusts Foundation		(уууу)		
1			2011	\$30,099	
Role	Applicant		Completion status	Complete	
Project title	Nanotechnology and the Commun	ity			
Applicant's family name		Applicant's given name		Initials	
Org. code	Full name of funding organization		Year awarded	Total amount	
2010225	Social Sciences and Humanities R	desearch Council of Canada	(yyyy) 2011	(CAN\$)	
3010325	20.30		2011	\$37,000	
Role	Collaborator		Completion status	Complete	
Project title	Rebirth of the Mini-Mall				
Applicant's f	amily name	Applicant's given name		Initials	
Shields		Rob			
Org. code Full name of funding organization			Year awarded	Total amount	
UK Department for the Environm			(yyyy) 2006	(CAN\$)	
1 (Defra) and the University of Liverpool		erpool	2006	\$82,484	
Role Applicant Completion status X Complete					
Project title Challenging Expertise, Engagement and Democracy: Developing a UK Policy for Nanotechnology.					
Applicant's family name Applicant's given name				Initials	
Org. code	Full name of funding organization		Year awarded	Total amount	
UK Department for the Environment, F		ent, Food and Rural Affairs	(yyyy)	(CAN\$)	
1		2006 \$160,000			
Role Co-applicant		Completion status X Complete			
Project title Understanding, assessing and applying non-expert (lay) contributions to scientific advisory bodies					
Applicant's family name		Applicant's given name		Initials	
Irwin		Alan		G.	

Personal information will be stored in the Personal Information Bank for the appropriate program.

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Family name, Given name	
Jones, Kevin	

Funded	Research (cont'd)	'						
Org. code	Full name of funding organization		Year awarded		tal amount			
1	UK Department for the Envirome and the University of Liverpool	nt, Food and Rural Affairs	2005		(CAN\$) 83,000			
Role	Applicant Applicant		Completion status X Complete					
Project title		anas Contactad Magnings and						
r roject title	Project title Science, Participation and Governance: Contested Meanings and Practices of Environmental Policy Making (PhD Dissertation)							
Applicant's f	amily name	Applicant's given name			Initials			
Schulte Z	Zu Berge (PhD Student)	Marion						
Org. code	Full name of funding organization		Year awarded (yyyy)		tal amount (CAN\$)			
1	DEFRA		2005		20,000			
Role	Completion statu		Complete					
Project title	Applicant Understanding Disk in Everyday D	Completion state	13 K	Complete				
Project title Understanding Risk in Everyday Policy Making.								
Applicant's f	amily name	Applicant's given name			Initials			
Org. code	Full name of funding organization		Year awarded		tal amount (CAN\$)			
			(yyyy)		(CAND)			
Role			Completion statu		Complete			
Project title			Completion state	<u>" Ц</u>	Complete			
Applicant's f	amily name	Applicant's given name			Initials			
Org. code	Full name of funding organization		Year awarded		tal amount			
			(yyyy)		(CAN\$)			
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Project title			Completion statt	<u>~ Ц</u>	Complete			
rioject ille								
Applicant's f	amily name	Applicant's given name			Initials			

Personal information will be stored in the Personal Information Bank for the appropriate program.



1.Research Contributions in The Last Six Years (2005-2011)

A. Refereed Contributions – Book chapters and journal articles

- R with Alan Irwin (2010) "Creating space for engagement? Lay membership in contemporary risk governance", pp.185-207 in B. Hutter (ed.) *Anticipating Risks and Organizing Risk Regulation in 21st Century*. Cambridge, Cambridge University Press.
- R Jones, K.E. and O.A.L. Paramor (2010) "Inter-disciplinarity in Ecosystems Research: Developing Social Robustness in Environmental Science." In C.L.J. Frid and D.J. Raffaelli (eds) *Ecosystem Ecology: A new synthesis*. BES Ecological Review Series. Cambridge, Cambridge University Press.
- R Jones, K.E. and A. Irwin (2010) "Creating space for engagement? Lay membership in contemporary risk governance." In B. Hutter (ed.) *Anticipating Risks and Organizing Risk Regulation in 21st Century*. Cambridge, Cambridge University Press.
- R Jones, K. E. (2004) "BSE and the Phillips Report: A Cautionary Tale about the Uptake of 'Risk'." In N. Stehr (ed.) *The Governance of Knowledge*, pp 161-186. Brunswick NJ: Transaction Books.
- R (2001) "BSE, Risk and the Communication of Uncertainty: A Review of Lord Phillips' report from the BSE Inquiry (UK). *Canadian Journal of Sociology*, 26 (4) 655-666.
- R (2000) Constructing rBST in Canada: Biotechnology, Instability and the Management of Nature. *Canadian Journal of Sociology*,25(3),pp.311-341.

B. Other Publications

Research Reports and Policy Papers

R Jones, K.E., A. Irwin, M. Farrelly, and J. Stilgoe. (2008) *Understanding Lay Membership in Scientific Governance*. London, Defra.

Stilgoe, J., A. Irwin, and K.E. Jones (2006) *The Received Wisdom: Opening up Expert Advice*. London: DEMOS.

Jones, K.E. (2007) "Independent Evaluator's Report." In P. Irving et al. *A people's inquiry on nanotechnology and the environment*. Environment Agency Science Report ref. SCHO0607BMUJ-E-P. Environment Agency, Bristol.

Jones, K.E. (2005) *Understanding Risk in Everyday Policy Making*. Department for Environment, Food and Rural Affairs, London.

Dissertation

Jones, K. E. (2004) *The Politics of New Agricultural Technologies: Contesting, Risk, Science and Governance*. PhD Dissertation, CRICT, Brunel University, London. Examined by Prof. Brian Wynne, Lancaster University and Prof. Ian Robinson, Brunel University.

Non-Refereed Publications

Jones, K.E. (2010) "Putting the 'local' into economic development planning." *CURB Magazine*, 1(2). With Stilgoe, Jack, and Irwin, Alan. (2006) *The Received Wisdom: Opening up Expert Advice*. London: DEMOS.

Jones, K.E. and A. Smart (2004) "Maximise the return on ethics consultations by minimising 'deficit thinking'," *European Biopharmaceutical Review*, Summer.

Policy Reports

With Shields, Rob, Bogden, Eva and McDonald, Amy (2010) *Partnerships: Responding to the Changing Dynamics of Urban-Rural Interdependency*. CRSC, Edmonton.

With Irwin, Alan, Farrelly, Michael and Stilgoe, J. (2008) *Understanding Lay Membership in Scientific Governance*. London, Defra.

Independent Evaluator's Report, in Irving, P. (et al.) (2007) *A people's inquiry on nanotechnology and the environment*. Environment Agency Science Report ref. SCHO0607BMUJ-E-P. Environment Agency, Bristol.

(2005) Understanding Risk in Everyday Policy Making. London, Defra.

Papers presented at scholarly meetings or conferences

- Jones, K.E. and B.Sluggett (2011). *If You Build It They Will Come?* ": *Innovation Clustering and Socio-Economic Development in the Alberta Capital Region*. Society for Social Studies of Science (4S). November 4, Cleveland.
- Jones, K.E. (Aug. 2011) What Matters about 'One dead cow?': Institutional Responses and Adaptations to BSE and Food Risks in Canada. Society for the Study of Social Problems, Las Vegas.
- Jones, K.E. (April 2011) *Partnerships: Responding to the Changing Dynamics of Urban-Rural Interdependency*. ARDN Creating Rural Connections, Edmonton.
- Jones, K.E. (Aug. 2010) "Reluctant Expertise: Reflections on knowledge and practice in environmental policy making." 4S, Tokyo.
- Jones, K.E. and A. Irwin (Oct. 2009) "Creating Space for Engagement? Lay Membership in Contemporary Risk Governance." 4S, Washington D.C.
- Jones, K.E. (Oct. 2009) "A Reluctant Expert, Science, Evidence and Policy Making." ESRC Seminar Series, Policy as Practice. The Mechanics Institute, Manchester.
- Jones, K.E. (August 2009) "STS, Mad Cows and Mandarins: Reflections on Developing Risk Governance and Expertise in Environmental Policy Making." Departmental Seminars, Rural Economy, University of Alberta, Edmonton.
- Jones, K.E. (May 2009) "A Reluctant Expert: Reflections on a Study of Scientific Expertise in Environmental Risk Governance." Congress of the Humanities and Social Sciences, Ottawa.
- Jones, K.E. (September 2007) "Understanding, Assessing and Applying Non-Expert (Lay) Contributions to Scientific Advisory Bodies." Advisory Committee on Hazardous Substances. Defra, London.
- Jones, K.E. (August 2007) "Understanding, Assessing and Applying Non-Expert (Lay) Contributions to Scientific Advisory Bodies." Code of Practice for Science Advisory Councils Consultation Workshop. Government Office of Science, Central Hall, London.
- Jones, K.E. (April 2007) "Lay Membership and Scientific Advice Giving." UK Chemical Stakeholder Forum, Defra, London.
- Jones, K.E., A. Irwin and J. Stilgoe (Dec. 2006) "The Received Wisdom: opening up expert advice." Demos Launch Event, EEF London.
- Jones, K.E. and M. Schulte Zu Berge (Aug 2006) "Developing a UK Policy for Nanotechnology: A Case Study in the Application of Engagement and Knowledge in Governance." EASST, University of Lausanne, Lausanne, Switzerland.
- Jones, K.E. and A. Irwin (Jan. 2006) "Science, Governance and Engagement in Europe: From Principles into Practice." Defra Science Seminar Series, Defra, London, UK.
- Jones, K.E. and P. Kang (June 2005) "Ethnicities of Risk? Inequity, Inclusion and Ethnicity in the Public Understanding of Risk." CORNEM Future of Multicultural Britain, Roehampton University, London UK.
- Jones, K.E. (May 2005) "Communities at Risk? Inequity, Inclusion and Ethnicity in Public Perceptions of Risk and the Environment." Centre for Environmental Risk, UEA, Norwich UK.
- Jones, K.E. (June 2005) "Understanding Risk in Everyday Policy Making: A Commitment to Research and Practice." CSAA Annual Meeting. University of Western Ontario, London, Canada.
- Jones, K.E. (May 2005) "Public Perceptions and Knowledge of Risk: Implications for Governance." Pesticide Residues Committee, Pesticides Safety Directorate, York UK.
- Jones, K.E. (Feb. 2005) "Understanding Risk in Environmental Governance." Invited Speaker, Defra, London UK.

- Jones, K.E. (Sept. 2004) "Involving the Public in Decision-Making." Workshop event, Defra Science Forum, The Royal Society, London, UK.
- Jones, K.E. (Aug. 2004) "Contesting Science, Scientific Authority and the Politics of New Agricultural Technologies." EASST Écoles des Mines, Paris, France.
- Jones, K.E. and A. Irwin (Aug. 2004) "Inequity and Social Exclusion in the Public Understanding of Risk and Science." 4S/EASST Écoles des Mines, Paris, France.

C. Forthcoming contributions

Irwin, A., T. Jensen, and K. E. Jones "The Good, the Bad and the Perfect - anticipating engagement amidst critical regimes." *Social Studies of Science*, (submitted July 2010, accepted with revision) Jones, K. E. and D. Davidson. "Exploring Success, Failure and Luck in Adaptations to Food-Safety and BSE in Canada." *Science, Technology & Human Values* (submission in November 2011)

With Lord, Alex and Shields, Rob (eds) *City-Regions in Prospect? The Meeting of Place and Practice*. McGill-Queens, Montreal. (submission to the publisher in November 2011).

Jones, K.E. & Sluggett, B. "If You Build It They Will Come?": Innovation Clustering and Socio-Economic Development in the Alberta Capital Region. *Canadian Journal of Sociology* (intend submission in January).

2.Other Research Contributions in the Last Six Years (2005-2011)

- Principal Investigator (with R. Shields) *Innovation, Nanotechnology and the Alberta Capital Region.* Funded by Killam Foundation Cornerstone Grant Program (CAN\$30,099). Completion January 2012.
- Director and Principal Researcher. *Understanding, assessing and applying non-expert ('lay')* contributions to scientific advisory bodies. Funded by UK Department for Environment, Food and Rural Affairs (DEFRA) (£80,001). Completed 2008.
- Supervising Academic. *Challenging Expertise, Engagement and Democracy: Developing a UK Policy for Nanotechnology.* PhD studentship. Jointly funded by DEFRA and the University of Liverpool (£51,270). Completed 2009.
- Research Secondment. *Understanding Risk in Everyday Policy Making*. Funded by Defra (£8,800). Completed 2005.

3. Five Most Significant Career Research Contributions:

My five most significant career research contributions are derived from three areas of research I have, and continue to be, involved with:

<u>Risk Governance</u>, <u>Engagement and Expertise</u>: A significant emphasis in my research involves bridging the social scientific knowledge and theory in the fields of science and technology study and the public understanding of science with the development of risk and environmental policy making. Reflecting a number of participative research exercises (please see above) contributions have been produced which advance *academic scholarship*, *policy knowledge and citizen engagement* (1,2,3):

- 1. Jones, K.E. and A. Irwin (2010) "Creating space for engagement? Lay membership in contemporary risk governance." In B. Hutter (ed.) *Anticipating Risks and Organizing Risk Regulation in 21st Century*. Cambridge, Cambridge University Press.
- 2. Jones, K.E (2005) *Understanding Risk in Everyday Policy Making*. London, Defra.
- influential policy report contributing to active changes in policy approaches to risk and expertise.
- 3. Jones, K.E., Stilgoe, Jack, and Irwin, Alan. (2006) *The Received Wisdom: Opening up Expert Advice*. London, Demos.
- A booklet translating research expertise into an accessible and widely read account of science and public participation in risk governance. With participation of London think tank Demos this pamphlet was launched to an audience of politicians, civil servants, academics, media and members of the public

at a well-attended public even in London, UK.

<u>Critical Research on city-regions:</u> This research seeks to revisit the concept of the city-region and to reground concepts of development and governance within local practices. Along with Alex Lord (Liverpool) and Rob Shields (Alberta) we have recently completed an edited manuscript which provides local accounts of city-regional governance and involves leading authors in the field from Canada, the US and Europe.

4. Jones, K.E, A.D. Lord and R. Shields. *City-Regions in Prospect? The Meeting of Place and Practice*. McGill-Queens, Montreal. (submission to the publisher in November 2011).

<u>Food safety and Agricultural Sustainability:</u> I continue to be involved in research which addresses the link between agricultural practice (including the development of new agricultural technologies), food safety and the ability to maintain agricultural practices and livelihoods in Canada. An early product of this research was the publication of an article documenting a Senate Inquiry into the use of recombinant DNA technology produced growth hormones in milk. This research published in Canadian Journal of Sociology was one of the first social science articles to be published on the social implications of biotechnology in Canada and was critically well-received.

5. Jones, K. E. (2000) Constructing rBST in Canada: Biotechnology, Instability and the Management of Nature. *Canadian Journal of Sociology*, 25(3) 311-341.

4.Career Interruptions and Special Circumstances: N/A

5. Contributions to Training in the Last Six Years

PhD (Canada)

Sluggett, Bryan (in progress). *Risk Governance and Disasters*. Sociology, University of Alberta. Doctoral supervisory committee.

Isaev, Nurlan (in progress) BSE and the Development of Alternative Food Systems. Rural Economy, University of Alberta. Doctoral supervisory committee.

PhD (UK)

Schulte zu Berge, Marion (2010) Challenging Expertise, Engagement and Democracy: Developing a UK Policy for Nanotechnology. University of Liverpool (£51,270). Examined by Prof. Susan Owens, Cambridge and Prof. D. Elliott, Liverpool. Dr. Jones was the primary supervisor of this dissertation project.

M.A. and M.P.A (UK)

I have supervised over twenty master level dissertations at the University of Liverpool, on topics including innovation, risk management, business development and policy studies. All students were awarded their degrees, with over half achieving a grade of distinction. Please contact Dr. Jones for a full list of students and the degree awarded.

Dr. Kevin E. Jones

My research expertise involves the relationship between science and society, and involves a substantial focus on the development of science policy, community engagement and the development of participatory risk regulation. More recently I have been developing research expertise on the topics of innovation, community and regional development. In particular, this research seeks to investigate the links between global rhetorics of development and the knowledge economy with the local contexts in which innovation, growth and governance take place. A strong focal point of my research involves the ability to translate and apply research findings in ways which inform policy practice and governance.

- 1. Innovation, Nanotechnology and the Alberta Capital Region. Killam Foundation. Along with Rob Shields I am the principal investigator on a research project investigating the networks and relationships being created around nanotechnology innovation in Edmonton. This exploratory research seeks to identify fault lines in these networks and to understand how fragmentations between innovation policy and local communities are revealed, constructed and overcome. This research provides an important contextual background to this PDG proposal.
- 2. Institutional Adaptation to BSE and Food-safety in Canada. APRI. I am the senior research associate on a study of institutional responses to BSE and food safety (PI. Debra Davidson, University of Alberta). This research addresses the ways in which network relations, institutional values and practices have been reflexively adapted to account for risk scenarios such as posed by the 2003 outbreak of BSE in Alberta.
- 3. Understanding Lay Membership in Scientific Governance. London, Defra, 2008. I was principle investigator and grant holder (£80,001) of a research project investigating the development of scientific advisory processes for the British Department for Environment, Food and Rural Affairs (Defra). This research made an important contribution to the development of the UK Code of Practice for Scientific Advisory Committees.
- 4. The Received Wisdom: Opening up Expert Advice. London: DEMOS. Along with colleagues at Copenhagen Business School and Demos, this series of essays was presented to key policy officials, politicians and academics in the UK. The report was presented at a high profile event at the EEF in London, in 2006, with participation from: Sir John Krebs, Principal of Jesus College, Oxford and former Chair of the Food Standards Agency; Richard Horton, Editor of The Lancet; Sue Mayer, Director, Genewatch; and Bill Stow, Director General, Environment, Defra.
- 5. Understanding Risk in Everyday Policy Making, 2005. Defra, London. I was seconded to Defra (£8,800) by invitation to assist the Department in developing its risk governance strategies. An important part of this work involved expanding notions of risk beyond scientific assessments to account for social and normative valuations of risk and how these might be accounted for through the expansion of citizen engagement and access to wider forms of expert knowledge.
- 6. Independent Evaluator, A people's inquiry on nanotechnology and the environment. I was invited to evaluate a community engagement project which was financially supported by the UK Environment Agency and Sciencewise, and organized by Demos the London policy thinktank.
- 7. Science, Participation and Governance, 2010, PhD dissertation, M. Schulte zu Berge, University of

Liverpool. I was the grant holder (£51,000) and supervisor of this PhD which addressed innovations in the use of science and public engagement in UK environmental governance.

Alongside my work with Government, I am also developing an academic publication profile. Two recent publications include:

- 8. "The Good, the Bad and the Perfect anticipating engagement amidst critical regimes." *Social Studies of Science*, (submitted July 2010, accepted with revision with A. Irwin and T. Jensen). This paper, co-authored with two leading European authors in the study of scientific citizenship, provides an important account of both the progress made in integrating citizen expertise into science and risk policy in the United Kingdom, as well as a theoretical and empirical account of why this progress has stumbled in recent years. The paper proposes the development of a critical sociology of anticipation and the need to develop reflexive accounts of the discoursive roles of critical science studies scholarship in contributing to the current impasse.
- 9. "Creating space for engagement? Lay membership in contemporary risk governance." In B. Hutter (ed.) Anticipating Risks and Organizing Risk Regulation in 21st Century. Cambridge, Cambridge University, 2010 (with A. Irwin). This chapter makes an important contribution to a key text in the field, edited by leader in the field of Risk studies, and which has already received positive reviews from leading scholars Ulrich Beck and Diane Vaughan.
- 10. "Inter-disciplinarity in Ecosystems Research: Developing Social Robustness in Environmental Science." In C.L.J. Frid and D.J. Raffaelli (eds) Ecosystem Ecology: A new synthesis. BES Ecological Review Series. Cambridge, Cambridge University Press, 2010. Part of the prestigious British Ecological Review series this chapter is the outcome of an interdisciplinary engagement with key scholars in ecosystems ecology.

Family name, Given name
Lumb, Chris

Partner Infor	matior	1						·		
Organization Inf	ormatio	on								
	Full organization name FEC Edmonton							Organization Public b	on type usiness en	terprise
Sector										
Business enterp	rise									
Address 4000-10230 Jas	per Av	e N.W	V.			ity/Municipality Edmonton	,		Prov./State AB	Postal/Zip code T5J4P6
						country				
Contact Informa	ation									
Contact family name										
Lumb										
Given name Chris										Initials
	Country code	Area code	Number	E	Extension	1				
Telephone number	780	492	8977							
Secondary phone number Fax number										
E-mail										
chris.lumb@tec	edmon	ton.co	om							
Web address										



Page 1



November 18, 2011

Professor Rob Shields and Dr. Kevin Jones CRSC, Faculty of Extension 2-184 Enterprise Square 10230 Jasper Ave. Edmonton, AB T5J 4P6

Dear Rob and Kevin,

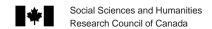
I am writing to confirm our support for your application to the SSHRC Partnership Development Grant Program in the area of nanotechnology and the community, and for the project's aims and objectives. I or another representative of TEC Edmonton will be happy to participate for the two-year term of the project as a partner. We will support the development of the project's research and engagement activities by:

- · continuing our membership on the project steering committee;
- sharing expertise in the area of commercial innovation and business development with the research team;
- acting as a liaison between the project and the emerging nanotechnology industry in Alberta;
- participating in the project's proposed stakeholder and citizen engagement exercises as experts in innovation and business development;
- sponsoring a Masters level graduate research assistant for a period of one year, with the intent that the cost for the student (\$22,938) would be borne 1/3 by SSHRC, 1/3 by TEC Edmonton, and 1/3 from other sources that we will identify in advance of the RA's commencement on the project. In addition, we will provide expertise in mentoring this student and involve the student in our day-to-day activities. The student in turn will be expected to contribute to TEC Edmonton by bridging the expertise being developed in the project with the activities of our organization.

We see this as an interesting and potentially very rewarding project and hope that through our participation we will be able to foster greater innovation and engagement with nanotechnology and innovation in the community.

Sincerely yours,

Chris Lumb, P. Eng. CEO, TEC Edmonton



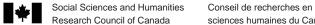
Family name, Given name					
Lumb, Chris					

Contributions from Partner

A partner is an organization that participates actively in a formal partnership and contributes in a meaningful way to the success of the endeavour.

	Confirmed	Cash	Confirmed	In-kind
Personnel costs		Amount		Amount
Student salaries and benefits/Stipends				
Undergraduate				
Masters	Υ	7,646	N	0
Doctorate				
Non-student salaries and benefits/Stipends	'		'	
Postdoctoral				
Other				
Travel and subsistence costs				
Applicant/Team member(s)				
Canadian travel				
Foreign travel				
Students	'			
Canadian travel				
Foreign travel				
Other expenses	'			
Professional/Technical services				
Supplies				
Non-disposable equipment				
Computer hardware				
Other				
Other expenses (specify)	'			
Assistance to secure funding	N	0	Υ	7,646
Steering Committee	N	0	Υ	6,400
Total		7,646		14,046
Total of all contributions (cash + in-kind)	<u> </u>		<u> </u>	21,692





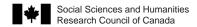
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Identifica	ition							
Statistical and	Administrativ			able to selection committee member SHRC for administrative and statisti			'	
Name								
Family name			Give	n name		Initials	Title	
Petersen			Nils	S			Dr.	
Citizenship - Applicants and co-applicants must indicate their citizenship status by checking and answering the applicable questions.								
Citizenship Canadian Permanent resident status Permanent resident s						you applied for anent residency?		
						_ OY	es No	
Statistical a	and Admir	nistrative Informatio	n					
Birth year G	ender	Permanent postal code in Canada (i.e. K2P1G4)		correspondence language	1	is contact w plicant, asse	ith SSHRC? essor, etc.)	
	F M			● English		Yes	○ No	
Full name used	d during previ	ous contact, if different fro	m abo	ove	·			
Contact In	nformatio	n						

Conta	act int	ormation					
	owing into		s to contact you more rapidly. S	econdary in	nformatio	on will not be release	ed by SSHRC without your
Primary	telepho	ne number		Second	lary telep	hone number	
Country code	Area code	Number	Extension	Country code	Area code	Number	Extension
1	780	248-1487		1	780	492-3169	
Primary	fax num	nber		Second	lary fax r	number	
Country code	Area code	Number	Extension	Country code	Area code	Number	Extension
Primary	/ E-mail	nils.peterser	nsshrc@gmail.com				
Second	lary E-ma	ail					

Web CV 2011/11/17 **Canadä**

Checked



Do not photocopy this page.

Family name, Given name
Petersen, Nils

Current Address Use only if you are not affiliated with a university. (If you are affiliated with a university, the department's mailing at wish to use another address, specify in Address.	department at a ddress will be u	a Canadian used.) If you	Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address.				
Faculty of Science, 6-195 CCIS			Address				
City/Municipality Edmonton	Prov. / State	Postal/Zip code T6G2E1	City/Municipality	Prov. / State	Postal/Zip code		
Country CANADA			Country				
Temporary Address If providing a temporary address, phone number and/or E-mail, ensure that you enter the effective dates.			Permanent Address in CANADA				
Address			Address				
City/Municipality	Prov./ State		City/Municipality	Prov./ State			
Country			Country				
Start date (yyyy/mm/dd)			Temporary telephone/fax number Country Area Number Extension code code				
Temporary E-mail							

Personal information will be stored in the Personal Information Bank for the appropriate program.



Conseil de recherches en sciences humaines du Canada

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Family name, Given name	
Petersen, Nils	

Research Expertise (optional)	Re	search	Expertise	(optional)
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The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

planni	ng and evalua	ting programs, producing statistics, and selecting	external assessors and committee members.	
Area	s of Resea	rch		
		o to 3 areas of research that best correspond to you ate entries are not permitted.	our research interests as well as areas where your research interests	erests
Rank	Code	Area		
1	360	Science and technology		
2				
3				
	poral Peric icable, indicat	ods e up to 2 historical periods covered by your resear	rch interests.	
From			То	
		BC AD O O	Year BC AD	
_	graphical F icable, indicat	_	by your research interests. Duplicate entries are not permitted.	
Rank	Code	Region		
1				
2				
3				
	ntries icable, indicat	e and rank up to 5 countries covered by your rese	arch interests. Duplicate entries are not permitted.	
Rank	Code	Countries		Prov./ State
1				

Personal information will be stored in the Personal Information Bank for the appropriate program.



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مافد	Social Sciences and Humanities
T	Research Council of Canada

Conseil de recherches en sciences humaines du Canada

Curriculum Vitae

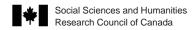
Family name, Given name

Curriculum	Vitae	Petersen, Nils	
Language Pro	oficiency		
Read English X French	Write Speak Comprehend aurally X X X — — — — — — — — — — — — — — — —	Other languages	
	nce cademic and non-academic, you have held beginning with based on the start year.	the current position and all previous p	positions in reverse
Current position			Start date (yyyy/mm)
Full Professor			2004/11
Org. code	Full organization name		
1480111	University of Alberta		
Department/Division	ı name		
Chemistry			
Position type	Tenured Non-tenure Employm	nent status Full-time	Part-time
	Tenure-track Non-academic	Non-salaried	Leave of absence
Position	·		Start date (yyyy/mm) End date (yyyy/mm)
Associate Dea	n		2011/1
Org. code	Full organization name		
1480111	University of Alberta		
Department/Division	ı name		
Research			
Position			Start date End date (yyyy/mm) (yyyy/mm)
Director			2004/1 2011/1
Org. code	Full organization name		
1	National Institute of Nanotechnology		
Department/division	name		
National Resea	arch Council of Canada		
Position			Start date (yyyy/mm) End date (yyyy/mm)
Vice-President	t Research		2002/1 2004/1
Org. code	Full organization name		
1351211	The University of Western Ontario		
Department/Division	name		
Office of Rese	arch		

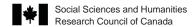
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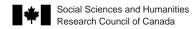
/ork Experience (cont'd)		
osition	Start date (yyyy/mm)	End date (yyyy/mm)
Distinguished Research Professor		2002/1
rg. code Full organization name	2001/1	L
The University of Western Ontario		
epartment/Division name		
aculty of Science		
osition	Start date	End date
ssociate Vice President	(yyyy/mm) 1999/1	(yyyy/mm) 2000/1
rg. code Full organization name		
The University of Western Ontario		
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ull Professor	(yyyy/mm) 1997/1	(yyyy/mm)
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iochemistry		
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ull Professor	1997/1	(уууу///////
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The University of Western Ontario		
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osition	Start date (yyyy/mm)	End date (yyyy/mm)
hair	1995/1	1999/1
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The University of Western Ontario		
epartment/Division name		
hemistry		



Work Expe	erience (cont'd)		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Full Professo	or	1993/1	(уууу/ППП)
Org. code	Full organization name	1330,1	L
1351211	The University of Western Ontario		
Department/Divis	sion name		
Chemistry			
Position		Start date	End date
Associate De	ean	(yyyy/mm) 1993/1	(yyyy/mm) 1995/1
Org. code	Full organization name		ļ.
1351211	The University of Western Ontario		
Department/Divis	sion name		
Graduate Stu	adies		
Position		Start date	End date
Associate Pr	rofessor	(yyyy/mm) 1987/1	(yyyy/mm) 1993/1
Org. code	Full organization name	I	
1351211	The University of Western Ontario		
Department/Divis	<u> </u>		
Chemistry			
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Honorary Le	ecturer	1982/1	1997/1
Org. code	Full organization name	-	
1351211	The University of Western Ontario		
Department/Divis	-		
Biochemistry	y		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Postdoctoral	fellow or associate	1981/1	1987/1
Org. code	Full organization name	l	ı
9943101	Washington University in St. Louis		
Department/Divis			
Chemistry			



Work Experie	ence (cont'd)		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Assistant Profe	Assistant Professor		1987/1
Org. code	Full organization name		
1351211	The University of Western Ontario		
Department/Division	name		
Chemistry			
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Postdoctoral fe	llow or associate	1977/1	1979/1
Org. code	Full organization name		
9931102	Cornell University		
Department/Division	name		
Applied Physic	es		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
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Department/Division	name		
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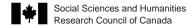


Family name, Given name
Petersen, Nils

Academic B	<u> </u>			
List up to 5 degrees	s, beginning with the highest degree first and all others in reverse chronologic	cal order, bas	sed on the start	date.
Degree type	Degree name	Start date (yyyy/mm) 1973/01	Expected date (yyyy/mm)	Awarded date (yyyy/mm) 1978/01
Doctorate	Physical and	19/3/01	Did CCHDC au	
Disc. code	Discipline		Did SSHRC su you to get this	
80300	Chemistry		Yes	● No
Org. code	Organization			
9983130	California Institute of Technology			
Country UNITED	STATES			
Degree type	Degree name	Start date	Expected date	Awarded date
BA Hon.		(yyyy/mm) 1968/01	(yyyy/mm)	(yyyy/mm) 1972/01
Disc. code	Discipline	1906/01	Did SSHRC su	
2100. 00d0	S loop into		you to get this	
80300	Chemistry		Yes	No
Org. code	Organization			
1351211	The University of Western Ontario			
CANAD	OA			
Degree type	Degree name	Start date	Expected date	Awarded date
		(yyyy/mm)	(yyyy/mm)	(yyyy/mm)
Disc. code	Discipline		Did SSHRC su you to get this	
			Yes	∩ No
Org. code	Organization			
Country				
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)
Disc. code	Discipline		Did SSHRC su	
			Yes	No
Org. code	Organization			
Country				
Degree type	Degree name	Start date	Expected date	Awarded date
3 - 71		(yyyy/mm)	(yyyy/mm)	(yyyy/mm)
Disc. code	Discipline		Did SSHRC su	
			you to get this	degree?
Org. code	Organization			
Country				
Country				

Canadä

Web CV



Credentials

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

Category	Name	Source or Country	Duration (Months)	Value / Year awarded
Academic Prize	Distinguished Research Fellowship	University		\$0 2001
Fellowship	The Chemical Institute of Canada	Private Sector CANADA		2001
Academic Prize	E. G. Pleva Award (Excellence in Teaching)	University CANADA		\$0 1993
Academic Prize	Lt. Governor's Laurel Award (Teaching)	University CANADA		\$0 1993
Academic Prize	OCUFA Teaching Award	University		\$0 1993
Fellowship	NSERC University Research Fellowship	Federal Government	0	\$0 1981

Research Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

chemistry, biochemistry, nanotechnology, research,

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

Rank	Code	Discipline	If Other, specify
1	80300	Chemistry	
2	80099	Other Natural Sciences and Engineering	Biochemistry
3	80600	Biological Sciences	
4			
5			

1.Research Contributions Over the Last Six Years (2005-11) Refereed Publications

Journal Articles

- R <u>M. Anikovski, Z.D. Wiltshire</u>, K. Weisshart, and N.O. Petersen "Photon Counting Histogram Analysis for Two-Dimensional Systems" ChemPhysChem (in press published electronically August 2011) Cover Article
- R <u>Y. Jiang</u>, A.J. Nohe, B. Gragdon, <u>C. Tian</u>, N. Rudarakanchana, N.W. Morrell, and **N.O. Petersen**, "Trapping of BMP receptors in distinct membrane domains inhibits their function in pulmonary arterial hypertension" American Journal of Physiology Lung Cellular and Molecular Physiology 301:L218-L227 (2011)
- R <u>E. Keating</u>, A.J. Waring, F.J. Walther, F. Possmayer, R. A. Veldhuizen, and **N.O. Petersen** "A TOF-SIMS study of the lateral organization of lipids and proteins in pulmonary surfactant systems" BBA-Biomembranes 1808, 614-621 (2011) (CIHR)
- R B. Bragdon, S. Thinakaran, O. Moseychuk, D. King, K. Young, D.W. Litchfield, **N.O. Petersen**, and A. Nohe "Casein Kinase 2 beta-Subunit is a regulator of Bone Morphogenetic Protein 2 Signaling." Biophysical Journal **99**, 897-904 (2010)
- R F. Possmayer, S.B. Hall, T. Haller, **N.O. Petersen**, Y.Y. Zuo, J. Bernardino de la Serna, A.D. Postle, R. A.W. Veldhuizen, S. Orgeig "Recent Advances in Alveolar Biology: Some new looks at the alveolar interface" Respiratory Physiology and Neurobiology **173S**, S55-S64 (2010)
- R M.S. Bakshi, V.S. Jaswal, F. Possmayer, and **N.O. Petersen** "Solution Phase Interactions Controlled Ordered Arrangement of Gold Nanoparticles in Dried State" J. Nanoscience and Nanotechnology **10**, 1747-1756 (2010)
- R B. Bragdon, S. Thinakaran, J. Bonor, T.M. Underhill, **N.O. Petersen**, and A. Nohe "FRET Reveals Novel Protein-Receptor Interaction of Bone Morphogenetic Protein Receptors and Adaptor Protein 2 at the Cell Surface" Biophys J, **97**, 1428-1435 (2009)
- R M.S. Bakshi, V.S. Jaswal, G. Kaur, T.W. Simpson, P.K. Banipal, T.S. Banipal, F. Possmayer, and **N.O. Petersen** "Biomineralization of BSA-Chalcogenide Bioconjugate Nano- and Microcrystals" J. Phys Chem C **113**, 9121-9127 (2009)
- R M.S. Bakshi, P. Thakur, G. Kaur, H. Kaur, T.S. Banipal, F. Possmayer, and **N.O. Petersen**, "Stabilization of PbS Nanocrystals by Bovine Serum Albumin in its Native and Denatured States" Adv. Func. Mat. **19**, 1451-58 (2009)
- R M. Anikovski and **N.O. Petersen** "Photon Counting Histogram Analysis as a Tool for Studying the Nature of Intermolecular Interactions" J. Phys. Chem **113**, 3404-12 (2009)
- R J. Popov, D. Vobornik, O. Cuban, E. Keating, D. Miller, J. Francis, **N.O. Petersen**, L.J. Johnston "Chemical Mapping of Ceramide Distribution in Sphingomyelin-Rich Domains in Monolayers" Langmuir **24**, 13502-9 (2008)
- R M. Anikovski, L. Dale, S. Ferguson, and **N.O. Petersen** "Resonance Energy Transfer in Cells: a new look at fixation effect and receptor aggregation on cell membranes" Biophysical J. **95** 1-11 (2008)
- R A.K. Panda, P. Wojiciechowski, K, Nag, F. Possmayer and **N.O. Petersen** "Theromodynamic and fluorescence studies on the interaction of cholesterol with POPC and sphingomyelin" J. Dispersion Science and Technology **30**, 1255-1261 (2009)
- Y.Y. Zuo, S.M. Tadayyon, E. Keating, L. Zhao, R.A.W. Veldhuizen, N. O. Petersen, M. W. Amrein and F. Possmayer, "Atomic force microscopy studies of functional and dysfunctional pulmonary surfactant films. II. Albumin-inhibited pulmonary surfactant films and the effect of SP-A" Biophys. Journal, 95, 2779-91 (2008)

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- R M.S. Bakshi, F. Possmayer and **N.O. Petersen** "Aqueous-phase room-temperature synthesis of gold nano-ribbons: Soft template effect of Gemini surfactants" J. Phys. Chem. C **112**, 8259-65 (2008)
- M.S. Bakshi, G. Kaur, F. Possmayer, **N.O. Petersen** "Shape-controlled synthesis of poly(siren sulfonate) poly(vinyl pyrolidone) capped lead sulphide nanocubes, bars and threads" J. Phys. Chem. C **112**, 4948-53 (2008)
- R M.S. Bakshi, P. Thakur, S. Sachar, G. Kaur, T.S. Banipal, F. Possmayer and **N.O. Petersen** "Aqueous Phase Surfactant Selective Shape Controlled Synthesis of Lead Sulfide Nanocrystals" J. Phys. Chem C **111**, 18087-98 (2007)
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- R Y.Y. Zuo, E. Keating, L. Zhao, S.M. Taddyyon, R.A. Veldhuizen, **N.O. Petersen** and F. Possmayer "Atomic Force Microscopy studies of functional and dysfunctional pulmonary surfactant films I: Micro-and nanostructures of functional pulmonary surfactant films and the effect of SP-A." Biophys J. **94**, 3549-64 (2008)
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- R E. Keating, A. Nohe and **N.O. Petersen** "Studies of distribution, location and dynamic properties of EGFR on the cell surface measured by image correlation spectroscopy." Eur Biophys J 37, 469-81 (2007) (ePub Nov 28)
- R M.S. Bakshi, L. Zhao, R. Smith, F. Possmayer, and **N.O. Petersen** "Metal Nanoparticle Pollutants Interfere with Pulmonary Surfactant Function In Vitro" Biophys J. **94**, 855-868 (2008)
- M.S. Bakshi, F. Possmayer, and N.O. Petersen "Role of Different Phospholipids in the Synthesis of Pearl-Necklace-Type Gold-Silver Bimetallic Nanoparticles as Bioconjugate Materials" Accepted J. Phys. Chem. C 111, 14113-124 (2007)
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- R M.S. Bakshi, G. Kaur, Pankaj Thakur, T.S. Banipal, F. Possmayer, and **N.O. Petersen** "Surfactant Selective Synthesis of Gold Nanowires by Using a DPPC-Surfactant Mixture as a Capping Agent at Ambient Conditions" J. Phys Chem C, **111**, 5932-5940 (2007)
- R M.S. Bakshi, F. Possmayer, and **N.O. Petersen** "Simultaneous Synthesis of Au and Cu Nanoparticles in Pseudo-Core-Shell Type Arrangement Facilitated by DMPG and 12-6-12 Capping Agents, Chem Mater. **19**, 1257-1266 (2007)
- R A.K. Panda, K. Nag, R.R. Harbottle, F. Possmayer, and **N.O. Petersen** "Thermodynamic studies of bovine lung surfactant extract mixing with cholesterol and its palmitate derivative" J. Colloid and Interface Science **311**, 551-555 (2007)
- R E. Keating, L. Rahman, J. Francis, A. Petersen, F. Possmayer, R. Veldhuizen and **N.O. Petersen** "Effect of Cholesterol on the Biophysical and Physiological Properties of a Clinical Pulmonary Surfactant" Biophys J, **93**, 1391-1401 (2007)
- R X. Zhao, **N.O. Petersen**, and Z. Ding "Comparison study of live cells by atomic force microscopy, confocal microscopy, and scanning electrochemical microscopy" Can. J. Chem. **85**, 1-9 (2007) [Cover]

- R M. S. Bakshi, P. Sharma, T. S. Banipal, G. Kaur, K. Torigoe, **N. O. Petersen**, and F. Possmayer "Lamellar Phase Supported Synthesis of Colloidal Gold Particles, Nanoclusters, and Nanowires Formation" Jour. Nanoscience and Nanotechnology **7**, 916-924 (2007)
- A. Nohe, E. Keating, M. Fivaz, F.G. van der Goot and **N.O. Petersen** "Dynamics of GPI Anchored proteins on the surface of living cells" Nanomedicine, **2**, 1-7, 2006
- R N. Patrito, C. McCauge, S Chiang, P.R. Norton and **N.O. Petersen** "Photolithographically Patterned Surface Modification of Poly(dimethylsiloxane) via UV-Initiated Graft Polymerization of Accrylates" Langmuir **22 (8)** 3453-3455 (2006)
- R K. L. DeJong, H. C. MacLeod, P. R. Norton, **N. O. Petersen** and M. Jasnin "An AFM compatible device for stretching cells and adsorbed proteins" Rev Sci Instr. **77**, 23701 (2006)
- R Kathy L. DeJong, Heather C. MacLeod, Peter R. Norton and **Nils O. Petersen** "Fibronectin organization under and near cells" European Biophysics Journal **35**, 695-708 (2006)
- A.K. Panda, F. Possmayer, **N.O. Petersen**, K. Nag and S.P. Moulik "Physico-chemical studies on mixed oppositely charged surfactants: their uses in the preparation of surfactant ion selective membrane and monolayer behaviour at the air water interface. Colloids and Surfaces A: Physicochem Eng Aspects **264**, 106-113 (2005)
- A. Nohe, E. Keating, M. Underhill, P. Knaus and **Nils O. Petersen** "Dynamics and Interactions of Caveolin-1 Isoforms with BMP Receptors" J. Cell Science, **118**, 643-650 (2005)

Refereed Proceedings:

M.C. Biesinger, David J. Miller, Robert R. Harbottle, Fred Possmayer, N. Stewart McIntyre and **Nils O. Petersen** "Imaging Lipid Distributions in Model Monolayers by ToF-SIMS with selectively Deuterated Components and Principal Component Analysis" The 15th International Conference on Secondary Ion Mass Spectrometry (SIMS XV) Manchester, UK September 12-16 (2005)

Book Reviews:

- B4 "Topics in Fluorescence Spectroscopy. Volume 3" By Joseph R. Lakowicz Editor. J. Am. Chem. Soc (1994)
- B3. "Topics in Fluorescence Spectroscopy. Volume 1" by Joseph R. Lakowicz, Editor. J. Am. Chem. Soc. 114, 10096 (1992)
- B2. "Annual Review of Biophysics and Biophysical Chemistry. Volume 14" J. Am. Chem. Soc. 107, 7802 (1985).

Book Chapter Reviews:

R E. Keating, C.M. Brown and **N.O. Petersen**, "Mapping Molecular Interactions and Transport in Cell Membranes by Image Correlation Spectroscopy" Chapter 16 in *Molecular Imaging: FRET Microscopy and Spectroscopy* Edited by Pariasamy and Day, Oxford University Press, June 2005.

2.Other Research Contributions

Member CIHR Institute of Genetics Institute Advisory Board	2007-11
Member NSERC Discovery Accelerator Selection Committee (Chair 09)	2007-09
Member ArboraNano – Business Led National Centre of Excellence Board	2009-
Member Ontario Innovation Trust Legacy Report Editorial Committee	2008-09
Member Canadian Light Source Human Resource Committee	2008-
Chair BiopSys - NSERC Strategic Network Board	2008-
Member NSERC GSC Reorganization Advisory Committee	2007-08
Member NSERC Cell Biology GSC Reorganization Advisory Board	2007
Member California Nano Systems Institute Board of Directors	2007-

3. Five Most Significant Career Research Contributions: see Relevant Experience

- 1. "More on the Motional State of Lipid Bilayer Membranes: Interpretation of Order Parameters Obtained from Nuclear Magnetic Resonance Experiments" Biochem. 16, 2657-2667, 1977 (with S.I. Chan). This paper established the proper interpretation of nuclear magnetic resonance data for lipids in membranes.
- 2. "Dependence of Locally Measured Cellular Deformability on Position on the Cell, Temperature and Cytochalasin B" Proc. Natl. Acad. Sci. USA 79, 5327-5331, 1982 (with W.B. McConnaughey and E.L. Elson). This research provided the first mechanical data on deformations of cell surfaces in response to drug treatments.
- 3. "Quantitation of Membrane Receptor Distributions by Image Correlation Spectroscopy: Concept and Application" Biophysical Journal 65, 1135-1146, 1994 (with P. L. Hoddelius, P. W. Wiseman, O. Seger and K.-E. Magnusson). This paper described the first analysis of protein distributions in cell membranes using fluorescence imaging and image analysis, which established a new field of image correlation spectroscopy.
- 4. "Molecular Organization in Bovine Pulmonary Surfactant Films Revealed by Time-of-Flight Secondary Ion Mass Spectrometry" Langmuir 19, 3698-3704, 2003 (with R.R. Harbottle, K. Nag, N.S. McIntyre, F. Possmayer). This research provided some of the first evidence for lipid organization in lung surfactants using imaging mass spectrometry.
- 5. "Signal Transduction of Bone Morphogenetic Protein Receptors" Invited and refereed review, Cellular Signalling, **16**, 291-299, 2004 (with A. Nohe, E. Keating, P. Knaus). This paper provides a comprehensive and highly cited review of the function of Bone Morphogenetic Protein Receptor function.
- 4. Career Interruptions and Special Circumstances: N/A

5.Contributions to Training

Teaching:

Instructor Chem 026 (First year general); Chem 204, 224a, 234b and 254 (all second year physical

chemistry); Chem 324a, 374a/b (third year quantum mechanics and kinetics) and Chem 378 (polymer chemistry); Chem 445b (photochemistry); Chem 474a (spectroscopy), Biochem 455 (biomembranes) and Biochem 468 (physical biochemistry); Biochem 524a (biomembranes); Chem 490 (research project), Chem 614b (Lasers and Spectroscopy).

Instructor 2 week graduate course in Cell Membranes in Linkoping, Sweden

2 week NORFA course on Video Microscopy in Linkoping, Sweden

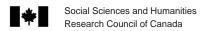
Training of Highly Qualified Personnel:

Post-Doctoral Fellows 14, In progress 3 Doctoral Thesis 14, In progress 1 Master's Thesis 1 Undergraduate Thesis >20 Summer Undergraduates Research >20 High School Independent Studies Programs >4

Professor Nils Petersen

As former Director General of NINT, I played an important role in developing Edmonton's nanotechnology research centre at the University of Alberta. My central contribution to this project is my broad knowledge of nanoscience, connection to the nanotechnology research network (academic, government and commercial aspects), and long-standing commitment to engaged scientific research within the community.

- 1. *Director General, NINT* (2004-2011). In my role as Director General, I took a central administrative role in leading the nanotechnology centre at the University of Alberta. I bring first-hand knowledge of how nanoscience and clustering currently operate within the city, with experience in the interactions between the different levels of government (municipal, provincial, federal) and research organizations.
- 2. Vice-President (Research), University of Western Ontario (2002-2004). I have experience as Vice-President (Research) at Western in dealing with the potential for research on society particularly through management of technology transfer activities at Western, in management of the UWO Research Park, and establishment of a Research Park in Sarnia. I was also involved in University-Community activities in that role (in London, Ontario) for which I received an award from the London Economic Development Corporation.
- 3. *Nanotechnology Expertise* (see Research Contributions for more detail). I have a broad understanding of the field of nanotechnology its promises, its limitations, its applications.
- 4. *Community Engagement with Nanotechnology*. I have spoken on a number of occasions to community groups (from Rotary Clubs to EEDC) on the topic of nanotechnology and can speak to the public about nanotechnology in a comprehensible way.
- 5. Communication. I am a good communicator with several teaching awards as a professor at Western.
- 6. *Interdisciplinary*. My research is interdisciplinary and I have a reasonable perspective on the research activities in general in the social sciences and humanities from my role as Associate Dean of Graduate Studies and Vice President (Research).
- 7. *Public Understanding*. Most importantly, I think it is important that nanotechnology and its implications be understood by the public and communities that it will impact positive or negative.



Application for a Grant

Internal use 550145

Identification	le available to selection committee members and	l external accessors	
	le available to selection committee members and	a external assessors.	
Funding opportunity Partnership Dev	elopment Grants		
Program name		Type of partnership	
1-Insight		New	
2 - Connection		New	
Grant type			
Individual			
Application title	y and the Alberta Capital Region A	A Case Study in Integrating Communities,	
Innovation and l	1 0	Case Study in integrating Communities,	
Applicant family name		Applicant given name	Initials
Shields		Rob	M
Org. code	Full name of applicant's organization and department		
1480111	University of Alberta		
	City-Region Studies Centre (Faculty of Extension)		
Org. code	Full name of administrative organization and de	epartment	
1480111	University of Alberta		
	Faculty of Extension		
Scholar type	Regular (New O	
If New, specify categor	ory 1 (3 0 4 0	
	ovolve human beings as research subjects? If "Yolical Conduct for Research Involving Humans and esearch Ethics Board.		No 🔘
	volve activity that requires a permit, licence, or a with the environment? If 'Yes', complete Apper		No 🔘
		Year 1 Year 2 Year 3	Total
Total funds requested	from SSHRC	88,580 111,357 0	199,937

Family name, Given name Shields, Rob

Activity Det	tails	3
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The information provided in this section refers to your research proposal.

Keywords

List keywords that best describe your proposed research or research activity. Separate keywords with a semicolon.

City-region, innovation, development, community engagment; nanotechnology; planning and governance

Priority Areas - Priority area(s) most relevant to your proposal. **Partnership Approaches** One or more possible formal partnership approaches. Cross-sector co-creation of knowledge & understanding; Disciplinary and interdisciplinary research partnerships; Networks for research and/or related activities; Partnered knowledge mobilization If "Other", specify Extending partnerships to wider citizen engagement. Disciplines - Indicate and rank up to 5 disciplines that best correspond to your proposal. Rank Code Discipline If "Other", specify Urban Planning 1 61412 Other Sociology Science and Technology Studies 2 63499 Regional Planning 3 61406 Social/Cultural Geography 61820 4

Areas of Research

63404

5

Indicate and rank up to 3 areas of research related to your proposal.

Social Organization

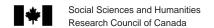
		• • •
Rank	Code	Area
1	131	Economic and Regional Development
2	360	Science and technology
3	244	Innovation, Industrial and Technological Development

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your proposal.

From	То
Year BC AD	Year BC AD ———————————————————————————————————

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Acti	vity Deta	ils (cont'd)		
	raphical Ficable, indicat	Regions e and rank up to 3 geographical regions covered by or related to you	ır proposal. Duplicate entries are not permit	tted.
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2	9001	International		
3	1000	North America		
Coun		e and rank up to 5 countries covered by or related to your proposal. [Ouplicate entries are not permitted.	
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1	1100	CANADA		AB
2				
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Summary of Proposed Partnership and Activity

The summary of your proposal should indicate the challenges or issues to be addressed; the overall goal and objectives of the proposed partnership; and the breadth of the partnership, and the meaningful engagement of the partners involved.

What can cities and communities do to support and benefit from new technologies? How can knowledge-intensive sectors develop in ways which account for local contexts and local needs? How can benefits and prosperity be made to 'stick' to the communities in which new technologies are innovated? We are developing a partnership to explore these questions and to foster networks which integrate scientific innovation, community development, and urban planning in the development of local 'innovation clusters'. Using the local case of nanotechnology in Edmonton, the University of Alberta's City-Region Studies Centre is developing partnerships with the National Institute of Nanotechnology (NINT), the Northern Alberta Institute of Technology (NAIT), NanoAlberta - Alberta Innovates Technology Futures (AITF), TEC Edmonton, the municipalities making up the Alberta Capital Region and an emerging nanotechnology business sector. Our aim in developing this partnership is to inform and research innovation networks which recognize and engage people and place as key constituents of successful science policy and development strategies.

While Edmonton has long been defined by its northerly location as a transportation and support centre, as a provincial capital, and its passion for hockey, Edmonton's designation as the national centre for the commercial development of nanotechnologies is less well known. Nanotechnology is imagined as a force of change and diversification, recasting the spatialization of the city as a northern capital, attracting a new class of high tech workers and entrepreneurs and bootstrapping a livable and world-leading city. However, pilot research funded by the Killam Foundation has shown that caution should be taken in drawing straightforward links between innovation cluster policies and community impacts: relationships between cutting-edge science, businesses, related communities of practice and the public are fragile and fragmented. It is the identification of this practical problem -- of expanding partnerships across innovation, local development agendas and communities -- that motivates our proposed partnership approach. The nanotechnology case in Alberta's Capital Region has been shaped by tensions between an ideal model of state science policy and economic development, a limited local labour force, demand from resource extraction industries and a disengaged public, including the wider business community.

Drawing financial support and expertise from our proposed partnership we will conduct: a) an intensive Citizen Panel involving key stakeholders and leaders from across the community; and b) and a wider and more extensive Community Engagement Exercise. Each of these activities will be supported directly through partnership activities and stakeholder working groups. Our intention is to draw partners and communities together to create platforms for research and consultation. This is both an exploration and a recognition of opportunities within Alberta and the Alberta capital region. Our methodology is anchored by CRSC's Public Research Model involving a uniquely interdisciplinary team of researchers, partners, postdoctoral and graduate students. This model uses multiple methods including group and individual interviews, ethnographic and discourse analysis as well as digital tools to examine the structure and dynamics of networks around nanotechnology. Through a program of partnership, engagement and participatory research we seek to promote opportunities for shared knowledge construction and the creation of governance scenarios which connect local needs and international opportunities for nanotechnology development.





Family name, Given name
Shields, Rob

Participants List names of your to include assistants, s	eam members (co-ap	plicants and co	ollaborators) wh	no will take part	in the intellec	tual direction o	f the researc	h. Do not
Role Co-appli	cant (Collaborator	•		Academic	•	Non-acader	nic 🔘
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Department/Division Chemistry	name							
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Department/Division	name						

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List of Partners and Other Contributors

<u>Invited Partners (Confirmed)</u>

1. NanoAlberta, Alberta Innovates Technology Futures

Contact: Dan Djukich, Director

250 Karl Clark Road

Edmonton, Alberta, T6N 1E4

E: dan.djukich@albertainnovates.ca

T: 780-450-5563

W: http://www.albertatechfutures.ca/nanoAlberta.aspx

2. TEC Edmonton

Contact: Chris Lumb, CEO

4000 TEC Centre

10230 Jasper Avenue

Edmonton, Alberta, T5J 4P6

E: chris.lumb@tecedmonton.com

T: 780-492-8318

W: http://www.tecedmonton.com

3. National Institute for Nanotechnology (NINT)

Contact: Rick Brommeland, Director of External Relations

11421 Saskatchewan Drive

Edmonton, Alberta, T6G 2M9

E: Rick. Brommeland@nrc.cnrc.gc.ca

T: 780-641-1620

W: http://www.nrc-cnrc.gc.ca/eng/ibp/nint.html

4. Northern Alberta Institute of Technology

Contact: David Carpenter, Dean

School of Information Communication and Engineering Technologies

11762 - 106 Street

Edmonton, Alberta, T5G 2R1

E: dcarpent@nait.ca

T: 780-471-7714

W: http://www.nait.ca/

Other Contributors (confirmed)

1. Michael Phair

Former Councilor, City of Edmonton

City-Region Studies Centre Advisory Board Member

T: 780-426-1516

E: michaelphair@shaw.ca

2. Gord Jackson

Director, Urban Planning and Environment Sustainable Development, City of Edmonton 5th floor, 10250 - 101 Street Edmonton, AB T5J 3P4

E: gord.jackson@edmonton.ca

T: 780-496-6117

3. George Matteotti

Director of Special Projects Sustainable Development Office of the General Manager City of Edmonton E: george.matteotti@edmonton.*ca* T: 780-442-0812

Other Contributors (Unconfirmed)

We will be working with our current partners to extend our partnership to the following organizations, communities and businesses.

1. Capital Region Board

#1405 Bell Tower

10104 - 103 Avenue

Edmonton AB T5J 0H8

T: 780-638-6000

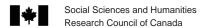
W: http://capitalregionboard.ab.ca/

- * The CRSC maintains an ongoing relationship with the CRB and have previously supported the Board's mandate in providing expertise and by organizing practitioner conferences and workshops. (http://www.crsc.ualberta.ca/nav01.cfm?nav01=98386).
- 2. Town of Beaumont; Town of Bon Accord; Town of Bruderheim; Town of Calmar; Town of Devon; City of Fort Saskatchewan; Town of Gibbons; County of Lamont; Town of Lamont; City of Leduc; County of Leduc; Town of Legal; Town of Morinville; Village of New Sarepta; Parkland County; Town of Redwater; City of Spruce Grove; City of St. Albert; Town of Stony Plain; Strathcona County; Sturgeon County; Village of Thorsby; Village of Wabamun; Village of Warburg
- 3. Nanotechnology businesses in the Alberta Capital Region: Micralyne, Scanimetrics, Acoustic Vision, Alberta Mining/May-Ruben Technologies, Dycor Technologies, Ukalta Engineering and others.
- 4. We aim to approach Telus World of Science for support in hosting and assisting the project team develop our two citizen engagement activities. http://www.edmontonscience.com/

Family name, Given name Shields, Rob

	- A partner organization incial, territorial, municipal					ary institu	tion, government	department
Org. code	Full organization name Alberta Innovates	Technolo	ogy Futures			Organiza Provin govern	cial/Territori	al
Address				Contact family nam	е			
250 Karl (Clark Road			Djukich				
				Given name Dan				Initials
City/Municipal	lity	Prov./State	Postal/Zip code		Count	ry Area	Number	Extension
Edmonton		AB	T6N1E4	Telephone number	code	code 450	5111	
Country CA	NADA			Secondary number Fax number				
E-mail da	ın.djukich@alberta	innovates	s.ca					
Web address								
Org. code	Full organization name National Institute	for Nano	technology			Organiza Resear organiz	ch	
Address				Contact family name				
11421 Saskatchewan Drive NW				Brommeland				
			Given name Initials Richard					
City/Municipal	ity	Prov./State	Postal/Zip code			ry Area	Number	Extension
Edmonton		AB	T6G2M9	Telephone number	code 1	code 780	641-1620	
Country CA	NADA			Secondary number Fax number	•	700	011 1020	
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Web address								
Org. code	Full organization name Northern Alberta	Institue o	f Technology	7		Organiza Colleg		
Address	I			Contact family nam	е			
11762-106	Street			Carpenter				
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City/Municipal	lity	Prov./State	Postal/Zip code			try Area	Number	Extension
Edmonton		AB	T5G2R1	Telephone number	code	code 780	4717714	
Country CA	NADA			Secondary number Fax number	1	780	4718994	
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	www.nait.ca							

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Family name, Given name
Shields, Rob

Partners	cont'd)							
Org. code	Full organization name TEC Edmonton				Pub	nization type lic business rprise		
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4000-1023	30 Jasper Ave N.W	7.		Lumb				
				Given name Chris			Initials	
City/Municipa	lity	Prov./State	Postal/Zip code		Country Are	ea Number	Extension	
Edmonton		AB	T5J4P6	Telephone number	code cod			
Country CA	NADA			Telephone number 780 492 8977 Secondary number Fax number				
E-mail ch	nris.lumb@tecedm	onton.con	n	<u> </u>				
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Org. code	Full organization name				Orgar	nization type		
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Personal information will be stored in the Personal Information Bank for the appropriate program.

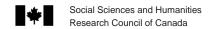


Family name, Given name Shields, Rob

Partner's Contributions

A partner is an organization that participates actively in a formal partnership and contributes in a meaningful way to the success of the endeavour.

	Cash	In-kind
Personnel costs	Amount	Amount
Student salaries and benefits/Stipends		
Undergraduate	0	C
Masters	7,646	C
Doctorate	0	C
Non-student salaries and benefits/Stipends		
Postdoctoral	0	C
Other	0	C
Travel and subsistence costs		
Applicant/Team member(s)		
Canadian travel	0	C
Foreign travel	0	C
Students		
Canadian travel	0	(
Foreign travel	0	C
Other expenses		
Professional/Technical services	0	12,800
Supplies	0	C
Non-disposable equipment		
Computer hardware	0	C
Other	0	C
Other expenses (specify)		
	48,808	14,046
Total of all partners' contributions	56,454	26,846
A. Total of all partners' contributions (cash + in-kind)		83,300
B. Total funds from other sources		140,200
C. Total funds requested from SSHRC		199,937
Total cost of project (A + B + C)		423,437



Family name, Given name Shields, Rob

Funds Requested from SSHRC
For each budget year, estimate as accurately as possible the research costs that you are asking SSHRC to fund through a grant. For each Personnel costs category, enter the number of individuals to be hired and specify the total amount required. For each of the other categories, enter the total amount required.

		Year 1		Year 2		Year 3
Personnel costs	No.	Amount	No.	Amount	No.	Amount
Student salaries and benefits/Stipends						
Undergraduate						
Masters	1	22,762	1	15,644	0	0
Doctorate	1	24,492	1	25,471	0	0
Non-student salaries and benefits/Stipends	•					
Postdoctoral	1	30,883	1	32,117	0	0
Other	0	0	0	0	0	0
Travel and subsistence costs		Year 1		Year 2		Year 3
Applicant/Team member(s)						
Canadian travel		495		0		0
Foreign travel		0		14,545		0
Students	-				_	
Canadian travel		5,800		0		0
Foreign travel		0		3,805		0
Other expenses					_	
Professional/Technical services						
Supplies	-	825		825		0
Non-disposable equipment					_	
Computer hardware		0		0		0
Other		1,823		0		0
Other expenses (specify)						
1day acad. and policy workshop		0		17,450		0
Steering Committee Meetings		500		500		0
Stakeholder Planning Meetings		1,000		1,000		0
	Total	88,580		111,357		0

Family name, Given name Shields, Rob

Funds from Other Sources
List all contributors (e.g., individuals, not-for-profit, philanthropic foundations, private sector organizations) that are providing cash and/or in-kind contributions for the proposal.

Full organization name	0	Year 1	V 2	Year 3	
Contribution type	Confirmed	rear 1	Year 2	rear 3	
NanoAlberta AITF	X	3,200	3,200	0	
In Kind					
NanoAlberta, Alberta Innovates Technology Futures	X	48,808	0	0	
Cash					
National Institute for Nanotechnology	X	3,200	3,200	0	
In Kind					
Northern Alberta Institute for Technology	X	3,200	3,200	0	
In Kind					
TEC Edmonton	X	7,646	0	0	
Cash					
TEC Edmonton	X	10,846	3,200	0	
In Kind					
University of Alberta CRSC / Faculty of Extension	X	13,000	13,000	0	
In Kind					
University of Alberta, Dept. of Sociology	X	5,250	5,250	0	
Staff					
University of Alberta, Faculty of Science	X	7,000	7,000	0	
In Kind					
Total funds from other	sources	102,150	38,050	0	
Personal infomation will be stored in the Personal Information Bank f	or the engrapric	**********			

Personal infomation will be stored in the Personal Information Bank for the appropriate program.



Budget Justification

The personnel costs are based on salary scales at the University of Alberta include benefits such as EI and WCB. There is a 4% increase between year one and year two to account for cost of living increases.

PERSONNEL COSTS

Masters Students (2 years)

\$38,406

Two Masters students will be required: one MA graduate research assistant and one MBA student. The MA student will be employed by the CRSC for the entire term of the project and will play an important role in assisting the project team facilitate partnership activities. Partial funding for this position will be provided by the U of A's Department of Sociology at \$7,706 for year 1 and \$8,091 for year 2; the remaining funding is being requested from SSHRC at \$15,115.90 for year 1 and \$15,643.78 for year 2.

An MBA student will be employed in the first year of the project and serve as a TEC Edmonton intern and be involved in researching the relationship between commercial start-ups, community and the cultural and aesthetic nature of cities. Partial funding for this position will be provided by TEC Edmonton at \$7646 cash, \$7646 in kind (TEC has committed to assisting us to secure an additional \$7646), with the balance \$7646 requested from SSHRC.

Doctorate (2 years)

\$49,963

A doctoral level graduate research assistant will be employed to assist in both research and engagement aspects of the project. This student will be supported by the research co-applicants and receive training in participatory research methods, data analysis and in community engagement techniques. The student will assist the research team develop a series of reflexive research activities.

Postdoctoral (2 years)

\$63,000

A post-doctoral fellow will be engaged for two years in all aspects of the project and will be expected to provide significant, original contributions to the project in terms of research design, data collection, network analysis, and dissemination. Candidates for these positions will receive interdisciplinary supervision and support from the project

TRAVEL AND SUBSISTENCE COSTS

Applicant/Team member(s)

\$15,040

Canadian Travel – One co-applicant will be required to travel in Province to other nanotechnology centres and businesses. Travel \$255; Hotel \$150; Per Diem one day \$45(x2 = \$90); *Subtotal \$495 Foreign Travel* – Four international experts on innovation and community development will be invited to share learning with local stakeholders at a one-day academic conference. Invited guests are: Alan Irwin, Maja Horst, Dave Guston, and one of either James Wilsdon or Jack Stilgoe. Airfare from major cities in Europe (\$2000 x 4) \$8000; Ground transportation (\$100 x 4) \$400; Per diem (\$45/day x 3 days x 4) \$540; Hotel (\$150/day x 3 days x 4) \$1800; *Subtotal \$10,740*

A portion of Foreign Travel will also provide an opportunity for one of the co-applicants to disseminate research at two academic conferences (*Society for the Social Studies of Science* (4 days) in San Diego, California, and the conference of the *Association of American Geographers* (5 days) in Los Angeles). Airfare (\$600 + \$600) \$1200; Ground Transportation \$200; Conference Fees \$650; Per diem (\$45/day x 9) \$405; Hotel (\$150/day x 9) \$1350; *Subtotal* \$3,805

Students \$9605

Canadian Travel – Three students and the post-doctoral fellow will present at Congress of the Humanities in 2013 or 2014. Flight: \$400; Hotel (\$150 x 7 nights) \$1050; Subtotal \$5800 Foreign Travel – One student will be provided the opportunity to disseminate research at the Society for the Social Studies of Science (4 days) in San Diego, California, and the conference of the Association of American Geographers (5 days) in Los Angeles, California. Airfare (\$600 + \$600) \$1200; Ground Transportation \$200; Conference Fees \$650; Per diem (\$45/day x 9) \$405; Hotel (\$150/day x 9) \$1350; Subtotal \$3805

OTHER EXPENSES

Eligible Supplies

\$1650

Administrative costs involved in carrying out this project include: printing and photocopying, postage, stationery, flip charts, materials for meetings, and other supplies.

Non-disposable equipment

\$1823

Funds will be used to purchase three licenses for NVivo, an essential tool for organizing and analyzing research data.

Other expenses

One-day academic and policy workshop

\$17,450

This conference will link academic research on innovation and community development with people who work in policy and government planning. We expect approximately 80-100 delegates at the conference. Venue Rental \$1250; Catering \$3750; AV \$2700; Materials \$250; Promotion \$2000; Transcription, printing, dissemination (\$3500); and honorarium (\$1000x4) \$4000

Half-day Steering committee meetings

\$1000

Throughout our proposed Partnership activities we plan to expand and maintain the steering committee as an essential means of engaging, and learning from, our partnership network in all aspects of the project development. This group will meet minimum twice per year. Meeting space \$400; Hosting/catering \$400; Materials \$200

Half-day Stakeholder group meetings

\$2000

Sharing membership with the project steering committee, a planning stakeholder working group will be created with an expanded membership to provide essential expertise to the project in helping address how communities can 'plan for innovation'. Meeting space \$800; Hosting/catering \$800; Materials \$400

Previous SSHRC Funding

This proposed Partnership Development Grant (PDG) is new research with new partners. It applies previous policy analysis and participatory social research methods that emphasize interdisciplinary refined by the Applicant, Prof. Rob Shields, Co-Applicant Dr. Kevin Jones and CRSC researchers. These methods address the development of urban spaces and how innovation activities in construction and engineering relate to community and urban identity (e.g. Shields, 1991; 1998; 1999a; 2003a; 2006a). This is buttressed by Co-Applicant Prof. Nils Petersen who contributes a long track-record of leadership of NRC and NSERC-funded nanoscience and biochemistry at nanometre scales.

Relation to Ongoing SSHRC Research:

Rebirth of the Mini-Mall (SRG 2011-2013): This research investigates how to support environmentally and socially sustainable, local community development through the revival of already existing urban and suburban retail places, specifically the suburban strip-mall. Are there key factors which lie within the power of communities to influence? We ask what local residents imagine as an ideal retail future for their neighbourhood, using participatory design methods (i.e. charettes). This methodology is different but related to community engagement tools and methods that the Applicant will use in the proposed PDG.

Global Suburbanism (MCRI 2010-17: Co-Applicant in team led by Roger Keil, York and Pierre Hamel, U de M). This comparative international study considers the political economy and governance of peri-urban development. This involves research on urbanization in the North and the growth of Iqaluit, Nunavut (Nunavut Research Licensed). Under the 'Global Suburbanism' MCRI, governance and the role of planning, land development are specific aspects of the suburban form under research (CRSC contributions are in Years 5-7, 2015-2017, and draw on ongoing non-SSHRC funded research with residents in northern communities). In contrast to the proposed PDG, this project is focused on urban form (sprawl) rather than community.

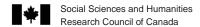
Contribution and Impact of Completed SSHRC Research:

Workplaces and Workdays in a Small Town: Changes in the Times, Spaces and Pace of Information-Related Work (SRG, 2003-6): This research focused on the experience of the internet and informationalized work amongst two groups, students who were teen-aged clients of a youth centre in a rural, regional centre and staff in a sponsoring local non-profit health agency. Relevance: Legacy of community engagement methods.

The Impact of a Knowledge-Based Economy on Work in the Public Service: The Virtual Organization of Expertise and Knowledge. (Strategic Grant, 2000-3: with E. Taborsky, S. Ilcan, and D. O'Connor): This research traced flows of knowledge and the mobility of knowledge professionals within, into, and out of, the Federal Public Service. Case studies focused on the diverse organizational forms in which knowledge work is conducted, including in the development of informal networks and temporary teams. Relevance: Management of a multi-university team, legacy of research on virtualities and the social impact of the knowledge economy.

Innovation and the Culture of the Construction Site (SRG, 1999-2002): This research lent support to the hypothesis that attention to the context of use was crucial to the success of innovations. The SSHRC project extended this hypothesis by examining the social context of use, including the role of experience, learning and training, job site politics of labour and the social conditions in which construction work with new innovations is done. Relevance: Experience and a legacy of working with industry and on innovation.

Figures and Images of Urban Sociality in Three Cities (SRG, 1994): The major contribution to knowledge was to reveal the non-applicability of Eurocentric concepts of social space and the public sphere to the forms of public life in Seoul. The research results throw into doubt common notions of globalization as the spread of European forms of civility by revealing a different underlying logic to social life ("flexible sociality") based on hierarchical networks. Relevance: Research on urban form.



Family name, Given name
Shields, Rob

Statement of Alignment				
The proposal has been identified as being relevant to one of SSHRC's priority areas. The statement addresses how the proposal meets the expected outcomes of the priority area.				



Goal and Project Description

1. Background and Purpose

We aim to develop a partnership exploring the relationships between scientific innovation, community development, and urban planning. We wish to better understand the relationship between globally-minded 'high tech' innovation and the urban localities in which economic growth takes place. In particular, we ask how urban planning, community partnerships and civic engagement can come together to contribute to the development of more socially robust development strategies for 'innovation clusters' (Spencer et al 2010; Amin et al 1994). What is the local 'stickiness' of successful innovation? We wish to develop a partnership involving academic institutions, multiple levels of government, business and community so as to inform innovation networks which recognize and engage people and place as key constituents of successful science policy and development strategies.

Edmonton has been designated as a national centre for the commercial development of nanotechnologies by both the federal and Alberta governments. The centerpiece of this strategy was the creation of the National Institute for Nanotechnology (NINT), which was founded in the Alberta Capital Region in 2001. It was the result of a financial collaboration between the National Research Council of Canada (NRC), the Government of Alberta and the University of Alberta. The Institute is imagined as a centre for scientific excellence. But as a part of national and provincial science policy NINT is also imagined as a platform for the rapid commercialization of nanotechnology and as a locus for economic development.

Edmonton has long been defined along three axis: i) its relative northerness; ii) its importance as a support / transportation centre for the natural resource sectors in northern Alberta (particularly oil); and iii) as a government centre. Nanotechnology is imagined as force of change and diversification. It is hoped that associated with the potential economic gains of participating in a high-tech global knowledge-economy are new opportunities for diversifying the city's cultural identity, improving livability and recasting the spatialization of the city and region vis a vis other locations (Ward 2004; Shields 1991).

However, caution should be taken before straightforwardly linking globally-minded state innovation policies with local benefit and development (Sundbo 2006). In a previous pilot project investigating the networks being created around nanotechnology within Edmonton (Killam Foundation, \$30,001), our research highlighted a more fragmented relationship between science, business and the community. Our analysis pointed to the isolation of nanotechnology initiatives from local development planning, from the wider regional economy and from the public. It is the identification of this practical problem – of expanding partnerships across innovation, local development agendas and communities – that motivates our proposed partnership development activities.

2. Theoretical Orientation:

Our proposal involves an interdisciplinary and engaged approach to the challenges stated above. The project is led by the convergence of research and theory in the fields of urban and regional planning, with work in the social studies of science, technology and citizenship (Corey 2006). Our first framing of the project relates to the theoretical positioning of urban regions as the locales of economic prosperity (Porter, 2000; Scott & Storper, 2003) within globalized networks of production and consumption (Sasken, 2006; Scott, 2004; Friedmann &Wolff, 1982). This research has revitalized an empirical approach to city-regions as sites of accumulation and as crucibles where local innovation and entrepreneurship are leveraged (Scott, 2008; Storper, 1997). Urban concentration is argued to facilitate

not only local development gains, but advantages that foster the creation of intangible consequences including knowledge (Cooke, 2004; Orderud 2007), quality of life (Florida, 1995), creativity (Bontje 2011; Collis et al), and local culture itself (Anderson 2007; Shields, 2003; Hadjimichalis 2006). Urban and regional policy has, as a consequence, been placed at the heart of economic development strategies in many OECD countries and been accompanied by a more general re-scaling of governance to the urban level (Brenner, 1999; Jonas and Pincetl, 2006). It is in this regard that studies of geographic 'innovation clusters' have risen in prominence on municipal agendas (Brachert 2001). Recent research on clustering has concluded that growth emerges from a felicitous mix of private, public and civic institutions and a density and diversity of social actors (Wolfe, forth.; Wolfe & Gertler, 2004; Doloreux & Melancon, 2007; Wolfe & Bramwell, 2008). Whether focused on firms, labour markets or on cultural aspects such as quality of life, the social networks and the hard and soft infrastructures that bring together teams and expertise are often interpreted as key factors for success.

It is in relation to these emerging theoretical and urban policy contexts where we can situate our case study and begin to understand the aspirations attached to NINT and the NRC-IRAP cluster strategy in Edmonton. However, our finding of a series of discontinuities between the innovators themselves and the Edmonton city-region are suggestive of the difficulties in top-down innovation models and policies (Wei & Xiang 2009). The smooth translation of technological and commercial advancement into economic and social well-being is a complex and uncertain process (Podgorecki et al., 1996; Sandler & Kay, 2006; Land 2006; Perry 2007). Partly, this is because innovation alone is not a sufficient means of engaging socio-economic contexts within which issues of inequality and deprivation are deeply established and multi-faceted (Amin & Thrift, 1995; Morgan, 1997; Etherington 2009). However, top-down down models of innovation further risk failing to acknowledge that development is difficult to direct. It is complemented by research in regional studies showing that innovation and development is often emergent, interactive and 'embedded' or based on pre-existing social relations (Varlander 2009; Lorentzen, 2008; Jones 2008; Bair 2008; Stark & Vedres, 2006; Granovetter 1973).

Our case study begins at this tension between an idealised model of innovation policy which links global networks with local contexts and the difficulty of planning and governing emergent and synergistic communities in practice. Our second theoretical orientation addresses this problem head on. Research in the social studies of science and technology inverts casual assumptions about innovation by reframing science and technology as essentially community-driven and socially contextualised projects at a range of scales (e.g. Latour & Woolgar, 1979; Bijker & Pinch, 1984). In this sense, the failure of top-down and science driven models of innovation to link with communities is not a surprise, but should be expected, as they demand community participation in imposed scientific framings of innovation (Grint & Woolgar, 1997), as opposed to engaging communities as innovative actors themselves (Bijker, 1995; Von Hippel, 2005). The failure to account for, or engage, public perceptions of technology and social needs early in the innovation process can ostracize publics, lead to distrust of science, government and commercial institutions and leave new technologies foundering (MacKinnon, 2009). Public concerns over novel technologies are too often labelled as irrational, or ill-informed, and dismissed in order to avoid waylaying scientific and commercial progress (Irwin, 2001; Irwin & Wynne, 1996). In a context where we are more and more aware that commercial and technological development can be sources of hazard and social inequity (Beck, 1992; Fairbrother & Fairbrother, 2009) as well as benefit, science-public relations are becoming an essential aspect of innovation policy.

The first benefit of integrating a critical approach to innovation is to directly engage how innovation and publics come together. A second benefit of taking social processes of innovation seriously implies opening innovation discourse and networks to a wider range of participants than is traditionally involved in cluster exercises. Encouraging forms of 'upstream' public engagement, studies

of scientific citizenship create the basis for emergent innovation dialogues which directly address the social possibilities of nanotechnologies in the community. Publics can participate in making choices about which innovation trajectories are appropriate, and which should be treated with caution (Kearns et al., 2006; Wilsdon and Willis, 2004; Jones, 2007; Wynne, 2002; Arnaldi, 2010). The development of a research program investigating nanotechnology in the community offers the possibility of engendering a more mature and socially robust dialogue about the acceptability of risk, social needs and social aspirations affixed to innovation (Shields, 2008; Jones and Irwin, 2010; Gertler and Wolfe 2004). It is our contention that for innovation to be truly successful it must be embedded in the organic and locally specific needs of the community; and likewise, for city planning to be successful it must consider the kind of economic opportunities at hand and the development it actually wants to foster.

3. Summary of Objectives

To address our partnership aims we propose the following partnership objectives:

- a. Short Term
- Extend current partnership networks to include a wide range of actors linking governments, science, industry and civic society across the Alberta Capital Region.
- Bring together interdisciplinary expertise across research fields to inform partnership development and activities.
- b. Medium Term
- Create a stakeholder working group linking science policy and municipal planning.
- Create a forum for a wider civic engagement with nanotechnology and its role in the future development of the city-region.
- c. Long term
- Create partnership and engagement models which could be employed in other contexts and in other city-regions.
- Foster community knowledge and engagement with nanotechnology.
- Inform socially robust forms of regional innovation and development policy.
- Contribute to scholarly expertise in understanding innovation and city-regions.

4. Activity Plan

To achieve these objectives we propose the following activities:

a. Background Research and Partnership Development

This proposal benefits from previous seed funded research into the case study, however further research is required to:

- develop a community profile of the Alberta Capital Region which specifically identifies the role of innovation and high technology in the city-region's economy and cultures;
- identify, review and evaluate previous partnership activities relating to nanotechnology in particular, and innovation strategies more widely within the city-region;
- develop a literature review and theoretical approach linking urban and regional research with social scientific studies of innovation and scientific citizenship;
- obtain ethics approval for research and engagement components of the partnership.
- b. Project Steering Committee

This committee will build collaborations between government, business, the scientific community, and the regional municipalities. It will meet a minimum of twice a year.

c. Stakeholder and Community Engagement Activities

These activities seek to extend the benefits of partnering and collaboration to a wider range of community participants.

- i. Planning Stakeholder Working Group: A planning stakeholder working group will be formed to address the problem of how communities can 'plan for innovation'. Its membership will include representatives from the regional municipalities, planners and members from the project steering committee. It will meet a minimum of twice a year.
- ii. Citizen Panel: Involving a diverse group of engaged citizens, this panel will be convened over two-days to learn and ask questions about nanotechnology innovation in the city-region. It will involve a series of workshops focused on case-study scenarios pertinent to the region. The participation of scientific experts, government officials, business leaders and civic organizations will support this process. It will contribute to:
- developing a knowledge of what communities know and think about nanotechnology and to identify topics of key public importance;
- a dialogue between community leaders, scientific experts, government officials, and business leaders;
- iii. Engagement Exercise: A one-day public engagement exercise will follow the Citizen Panel and involve a wider public. This event will involve presentations on current issues around nanotechnology and development (derived from the Citizen Panel) as the basis of a series of roundtable conversations. It will involve up to 100 community participants and will be supported by members of the scientific, government and business communities. Participants from the Citizen Panel will contribute to the roundtable discussions as citizen experts. This engagement helps achieve our objectives by:
- raising awareness of nanotechnology innovation within the city-region, and by encouraging a wider public dialogue about nanotechnology and regional development.
- providing community input into nanotechnology policy in Alberta, including on topics relating to sustainability and risk; and,
- identifying synergies between innovation in Edmonton and community strengths, needs and ambitions. *d. Researching Partnership*

Focused around our partnerships activities, a series of research activities will be conducted to build reflexive understandings of how partnering and engagement can contribute to the development of more socially robust and effective innovation strategies. This research will serve the dual aim of providing an evaluation of our partnering and engagement activities while also informing academic research on communities, innovation and development. Core research activities will include:

- a qualitative study addressing multi-sectoral framings of innovation and city-regional development, and which will further identify the network relations being constructed around nanotechnology in the city-region;
- participant observation of all partnering and engagement activities as an essential means of reflecting on the practices and values of these exercises.
- an evaluation of participant experiences in engagement exercises (survey & interview).

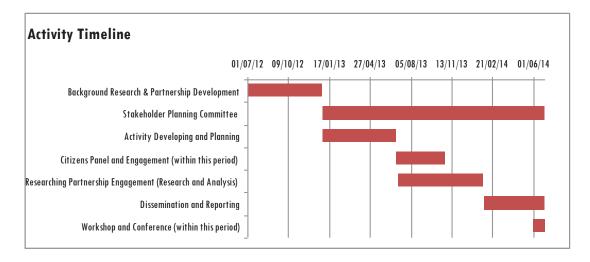
5. Meeting Insight and Connection Program Objectives

Interdisciplinarity: This project involves research expertise from across the sciences and social sciences to engage nanotechnology as an area of significant social and economic importance. It further brings together research on innovation, city-regions, governance and development within the social sciences to produce complementary tools for the study of innovation clusters at the interface between research, business and community.

Knowledge Mobilization and Cross-Sectoral Learning: This partnership enables shared learning about nanotechnology and city-regional development across communities of scientists, government officials, planners, businesses and citizens. Stakeholder and engagement activities are designed to facilitate transfers of information and afford opportunities to co-create new knowledge through shared meaning-making. This is a well-founded working practice within the CRSC which works to create a cycle of generating knowledge via reciprocal engagement between citizens and the propinquitous community of the city and region in all its forms.

Accessibility: This proposed project makes knowledge of innovation and city-regional development open to a wide range of stakeholder and citizen communities. We aim to provide communities access to information so as to generate a multi-sectoral dialogue about social and economic action, entrepreneurship and technology governance.

Reciprocal Relationships: This proposal mobilizes a unique and internationally recognized team of researchers, which will enable our partnership to be both informed by international experience, and inturn inform interdisciplinary knowledge derived from the Edmonton case study.



6. Future Orientation

Most studies of innovation clusters privilege a regional level of explanation, but the case of Edmonton highlights the already-globalized character of researchers and firms dependent on very high levels of capitalization and state subsidized research facilities and equipment. So great is the importance of transnational networks of information, uniquely skilled labour, venture capital and global markets that the city-region is easily overlooked as offering potential benefits, collaborations and services right at the doorstep. This proposed partnership involves a series of experiments in practice at the level of the city-region. Our intention is that through the knowledge gained in this process, that we take 'lessons learned' and develop models of partnership and engagement that could be applied across other city-regions in Canada, as well as contribute to practice internationally. We consider this partnership a step towards the development of a multi-sited, cross-Canada and international Partnership Grant. In other words, we are proposing a process which moves from the local to the global and back again (Geddes, 1915).



Family name, Given name Shields, Rob

	nded Outcomes of Proposed Activities ate on the potential benefits and/or outcomes of your proposed resea	rch and/or related activities.		
Scholarly Benefits Indicate and rank up to 3 scholarly benefits relevant to your proposal.				
Rank	Benefit	If "Other", specify		
1	Enhanced research collaboration			
2	Enhanced research methods			
3	Student training/skill development			
	al Benefits e and rank up to 3 social benefits relevant to your proposal.			
Rank	Benefit	If "Other", specify		
1	Enriched public discourse			
2	New or enhanced partnerships			
3	Training and skill development			
Audiences Indicate and rank up to 5 potential target audiences relevant to your proposal.				
Rank	Audience	If "Other", specify		
1	General public			
2	NGO and community organizations			
3	Postsecondary institutions			
4	Provincial/territorial government			
5	Practitioners/professional associations			



Family name, Given name

Shields, Rob

Expected Outcomes Summary

Describe the potential benefits/outcomes (e.g., evolution, effects, potential learning, implications) that could emerge from the proposed research and/or other partnership activities.

This project has already induced partners to come together out of interest and curiosity concerning our introduction of social research to what have been understood to be technical, economic and political issues. The proposed project will produce outcomes which contribute to the growth of scholarly knowledge, foster regional development and create publically integrated innovation strategies.

- 1. Supporting Innovative communities
- bridge divides and discontinuities within existing sectoral networks and within existing formal networks of nano- and related technology start-ups and technology users and link traditional models of innovation and economic development with participatory planning approaches and wider communities in the region.
- increase awareness, knowledge and insight across sectors concerning the opportunities and risks involved in technology-led development in general and nanotechnology in particular.
- identify public issues and framings of nanotechnology that are currently excluded from expert knowledge on the topic.
- 2. Generating Knowledge for planning innovation
- address the motivating question 'What can cities do?' to prosper from innovation and technology-led development in both theoretical and policy-analysis terms in the context of the Alberta Capital Region.
- identify roles for municipalities by generating guidelines for best practices and collaborations between the multiple stakeholders and jurisdictional authorities relevant to nanotechnology development.
- 3. Fostering integrative research expertise
- bring together high calibre international expertise to integrate research and knowledge in the fields of innovation studies, city-region studies, and community participation in science & technology.
- provide unique, interdisciplinary training in an emergent area which has not been researched and support new expertise in cross-sectoral working and in integrating the research cycle from discovery to engaged citizenship.
- offer engagement events that are also the laboratory of CRSC's public research model and gain knowledge through active participation with stakeholders and communities.
- learn valuable lessons about the relationships between science, cities and communities in action. 4.Core deliverables
- Profile of innovation in the Alberta Capital Region, including parallel cluster and regional development initiatives. (Year 1)
- Community Engagement Report (Year 1) in which partners and community participants will play an important role.
- Audio documentary derived from our two engagement activities (Year 2)
- Special issue of Curb Magazine (Year 2) on 'Planning for Innovation', distributed to CAOs and Chief Planning Officers across Manitoba, Saskatchewan, British Columbia, the Territories, Alaska, the US border states and Alberta.
- Policy Workshop and Conference (Year 2) linking academic research to policy and local government planning.
- Academic papers and presentations to interest other academics and students and spur further research. (Year 1 & 2)

This partnership development grant will be a platform for network problem recognition and resolution, and for coordination as well as reflection in the form of partnering in a follow-up Partnership Grant application.



Participants Involvement

As an interdisciplinary research endeavor, different kinds of expertise are necessary for the success of the research and engagement activities in the project. In particular, we need partners who understand: how to coordinate with a multi-sectoral team, across academic, business, government and the wider community; how to develop a research design that includes scientists and the public in a dialogue about nanotechnology and community development; and academic expertise and research experience in a number of fields, including nanoscience, regional innovation, science and technology studies, and public understanding of science.

Applicant

Prof. Rob Shields is Henry Marshall Tory Chair and Professor in Sociology / Art and Design at the University of Alberta. He is also Director of the City-Region Studies Centre (Faculty of Extension, University of Alberta), an engaged research unit that works in collaboration with planning and policy communities in the region. Prof. Shields is an internationally renowned scholar on the social aspects of space, architectural design, and regional innovation planning. He has direct expertise as Principle Investigator and Co-Investigator on several previous large-scale SSHRC projects that involved the coordination and management of a multi-disciplinary research team. Prof. Shields is responsible for leading a multi-sectoral team involving academic scholars from the natural and social sciences; as well as partners from local government, business development and the community. He is well positioned to provide leadership and management for the project based on his previous successful SSHRC experience, and current role in brokering relationships with businesses, local municipalities, and planners at the City-Region Studies Centre.

Co-applicant

Dr. Kevin Jones is Senior Research Associate at the City-Region Studies Centre (Faculty of Extension, University of Alberta) and Department of Resource Economics and Environmental Sociology (Faculty of Agriculture, Life and Environmental Sciences, University of Alberta). His expertise is in science and technology studies and risk governance, with particular focus on how to open up science and innovation to include citizen knowledge. Dr. Jones brings a strong practical background in the research design and administration of citizen-science engagement exercises. As part of the previous Killam Grant project, he built cross-sectoral partnership and stakeholder activities between the City-Region Studies Centre and nanoscientists, regional planners, business, and community groups within the region. He will continue to expand and strengthen the CRSC's ties with the local community, and engage new parties in the nanotechnology conversation. In collaboration with partners and stakeholders, he will also be tasked with developing the research design, student training, and dissemination activities.

Prof. Nils Petersen is currently Acting Associate Dean of Research in the Faculty of Science and Professor in the Department of Chemistry, University of Alberta. As former Director General (2004-2011) of NINT for the National Research Council of Canada, he was instrumental in the early leadership and development of the new nanoscience centre at the University. Crucially, he brings internationally recognized expertise in nanoscience to a multidisciplinary social science research project. Along with strong academic credentials, Nils is very engaged in building strong ties between scientific knowledge and community needs within Edmonton. He will play a central role in bringing the natural and social science research communities together, and in particular, providing a tangible link in to the nanotechnology network. In tangible terms, Nils will contribute to the development of all partnership and engagement activities, participate in these activities as an expert in the nanoscience and will participate in student training activities.

Collaborators

Prof. Alan Irwin is the Acting President and the Research Dean at the Copenhagen Business School. He is a leading international expert within science and technology studies, with a strong research record in opening up science and developing methods to include community engagements in the innovation process. Drawing from his multi-sectoral experience working with scientists, policy makers and community groups in numerous committees and research projects, Alan will be closely involved in all aspects of developing the project from research design to execution. He contributes expertise in engagement and community development, and will be a keynote speaker at the closing conference.

Prof. Maja Horst is Associate Professor in the Department of Organization at the Copenhagen Business School. She brings practical experience on how to translate complex society-science issues into innovative forms of public communication. In particular, her successful execution of an installation project on stem cells will be drawn from to inform our nanotechnology communication exercises. Maja will play a central role in the design elements of the engagement exercise, given her previous experience with a large-scale science installation. She will also be actively participating in all engagement activities and the nanotechnology conference.

Prof. James Wilsdon is Professor of Science and Democracy at the University of Sussex, and former Director, Science Policy Centre, at The Royal Society (2008-2011). With extensive experience working at the crossroads between public policy, government and academia at Demos and the UK's national academy of science, Prof. Wilsdon brings practical experience in high impact research. In particular, his previous collaboration with *Dr. Jack Stilgoe* crafting an engagement exercise for nanotechnology will be drawn from in this project. James provides leadership on the citizen engagement exercise, and along with Jack Stilgoe and Kevin Jones, will be facilitating the event. He will also be providing advice on project direction and participating in the nanotechnology conference.

Dr. Jack Stilgoe is now Senior Research Fellow at the University of Exeter, and former Senior Policy Advisor at The Royal Society. He has a long-standing history of engaging citizens, scientists, and policy makers in dialogues about controversial or pressing scientific matters, including nanotechnology. Together with *Prof. James Wilsdon*, Jack will facilitate the citizen engagement exercise, advise on research design, and participate in the nanotechnology conference.

Prof. David Guston is Professor of Politics and Global Studies, Director of the Center for Nanotechnology in Society, and Co-Director of the Consortium for Science, Policy and Outcomes at Arizona State University. He is an internationally recognized scholar on the relationship between nanotechnology and society, whose work on anticipatory governance attempts to model new ways of embedding the things communities want into emerging scientific knowledge. David provides an important connection to the academic network of scholars working on nanotechnology and innovation in America, where the Center for Nanotechnology in Society is a thriving hub for cutting-edge scholarship. In pragmatic terms, CRCS will be sending a representative for a site visit to see the research activity at Arizona State University hosted by Dr. Guston. He will also be participating in the nanotechnology conference, and participate in advising the development of partnership and engagement activities.

Formal Partnerships

Why a Partnership Approach is Appropriate:

This partnership is a response to the findings of an exploratory research project, funded by the Killam Foundation, into the networks and community relations being formed around nanotechnology. The findings of this research (Jones & Sluggett, 2011; Jones & Sluggett, forth.) suggest that, despite proactive policy decisions and significant funding of the development of a nanotechnology cluster in Edmonton (approximately \$250 million), cross-sectoral relationships have been fragmentary and largely disimbedded from the community. This partnership is motivated by the need to build partnerships across innovation networks and the city-region, and to leverage these relationships to foster wider community engagement with nanotechnology. This partnership will:

a. support the emergence of integrated and socially emergent innovation models, and in doing so, supporting the development of an innovation cluster which could be a significant source of development for the Alberta Capital Region and for the country as a whole;

b. engender public participation in the development of nanotechnologies, and the institutional support systems being constructed around these technologies at the city-region scale. As the UK Royal Society (2004) notes, nanotechnologies have huge potentials for contributing to social and economic welfare, but risks and uncertainties are also attached to their development. It is essential for communities to be involved in addressing how risks and benefits will be mediated in their own communities.

Developing successful innovation and cluster strategies is not as straightforward as having good science and government policy support. Success also further depends upon the creation of durable and integrative networks of social relations at multiple levels and across multiple communities (Schrank & Whitford, 2011). Fostering these relationships at the city-region level – an increasingly important spatialisation of economic and social development (see goals and project description) – is a first step forward in meeting these aims.

Governance Structure:

The governance structure of the project is built into the proposed partnership activities outlined in this proposal. The involvement of partners (both confirmed and future) will take place formally through their membership on a Project Steering Committee. This committee follows on from our previous Killam research and has already been convened (August & October 2011) to assist in the development of this proposal, and its aims and objectives. The committee is made up of partners from across the academic, commercial development, government and community sectors. Current members of this committee include: Dan Dujkich, Director, NanoAlberta AITF; Chris Lumb, CEO of TEC Edmonton; Rick Brommeland, Director of External Relations, NINT; Gord Jackson, Director of Sustainable Development, City of Edmonton; and Michael Phair, former city councilor and CRSC board member. In the first year of the project the committee will be extended to include wider representation from municipal government, the commercial nanotech sector and the community. The steering committee will continue to work with the project investigators to develop partnerships and to leverage the expertise and resources of the group to engage the wider Edmonton community. The committee will meet bi-annually, as well as aid the development of our engagement activities and participate as experts in these events.

In parallel, and closely integrated with the steering committee, academic co-applicants and collaborators will form an academic committee which will meet twice yearly either by teleconference, or to coincide with their participation in engagement and conference activities. This committee will operate in both an advisory capacity to the PIs, but also be a reporting centre for individual contributions to developing the theoretical framework, engagement activities and project dissemination.

Participation, Integration and Intellectual Leadership

We are proposing a model of partnership which encourages the sharing of multi-sectoral expertise with the research team, on the one hand, and on the other, creates opportunities for transdisciplinary learning (Jones & Paramor, 2010) through engaged working practices.

In the first instance, the development of our partnership is guided by the need to incorporate different communities, perspectives and knowledges around shared project aims and objectives. Integral to this project is the need to link dominant innovation networks involving provincial & federal government, commercial businesses and science, with community development networks involving local governments, planners and engaged citizens. Together our partners bring intellectual leadership to the project across these areas. Moreover, each partner will not only bring their own experiences to the project, but also act as conduits to expertise and leadership from the sectors they are well-placed to represent.

Moreover, integration and shared learning between partners will be fostered by working together in a number of capacities related to our proposed activities. This includes:

- assisting the design of the two engagement activities;
- participating in the engagement activities as expert members of the citizens panel and key note speakers in the wider engagement exercise;
- developing case studies in nanotechnology innovation which incorporates science, business development, government policy and community synergies;
- participating in knowledge mobilization activities.

Anticipated Challenges

The primary challenge we face relates to the extension of our current partnership to a wider array of stakeholders and civic communities. Firstly, a prerequisite for the success of this partnership is the integration of the business sector into our activities and knowledge mobilization strategies (Wolfe, forth.). We anticipate that this will be difficult as our pilot project demonstrated that links with, and between, businesses were often fragmented; for instance firms may be insecure about privacy and copyright protection in engaging across communities. Small start-up companies can also find it difficult to dedicate staff time and resources to partnering. However, in our focus group research we also heard many positive expressions of interest in the aims of the project. To assist in recruiting further commercial partners we have received the dedicated support of both TEC Edmonton and NINT – each of whom share close links with the business community.

Secondly, our project faces a challenge in extending the partnership across the Alberta Capital Region. This city-region is currently composed of 24 different municipalities which are only loosely coordinated by a Capital Region Board (CRB). This challenge will be addressed through CRSC's close ties with the CRB, the City of Edmonton and many of the other municipalities in the city-region. CRSC has a strong reputation in community engagement established through ongoing locally-supported planning speakers series, past research work in the city and close relationships with individual municipal leaders, administrators and planners. In addition we aim to enlist the aid of the Centre for Public Involvement, a City-University partnership, already set-out in a preexisting memorandum of understanding.

Finally, a third challenge we face relates to the involvement of the wider community in our partnership activities. This is a challenge because there is little local knowledge of nanotechnology in the cityregion, and few links have been made between the development of the cluster and various development projects in the city. Through our pilot research we involved many sectors of the community as participants in focus groups as a means of learning from them, but also as a means of creating relations with these actors around nanotechnology innovation. Furthermore, long time City of Edmonton

Councilor Michael Phair has been recruited as a member of our steering committee to help further citizen relations and raise the profile of the project in the community.

Benefits to Partners

The partners identified in this proposal will share multiple benefits from their inclusion in this partnership, and by leveraging these relationships through community engagement. Firstly, partners will gain access to international expertise relevant to the management of technology and innovation clusters and networks. We feel an outstanding group of co-applicants and collaborators has been assembled around this project. They bring both intellectual excellence to the project, as well as considerable experience in bringing social scientific research with stakeholder and public communities. Additional benefits derived from this partnership include:

- 1. the integration of planning discussions at the level of innovation and commercial growth, with city-regional and community commitments to development and sustainability;
- 2. the growth of public interest, knowledge and participation in nanotechnology, and how it is being developed in the Alberta Capital Region. We believe the approach outlined in this proposal will allow for the development of interest in these developing technologies in ways which could lead to greater participation in the sector in both investment and career development.
- 3. the development of upstream and meaningful citizenship in nanotechnology and nanotechnology policy. This will permit citizen input into innovation agendas, and through their participation the possibility of inspiring public confidence in these processes.

To further the benefits of this project, individuals with expertise in building networks, crossing communities and engaging publics about innovation are much needed. We hope to build these capacities both within our partnerships, as well as through the unique training opportunities included in this proposal.

Contributions Plan

1. University of Alberta Contributions

a. City-Region Studies Centre

The Faculty of Extension (CRSC) will contribute staff hours and office space. Included in this figure are 15 days (\$4500) of the Manager's time for project management, 15 days (\$4500) for the Event Manager's time, and two workstations (\$4000) per year for a total of \$26,000.00.

b. Faculty of Arts

The Department of Sociology will contribute funding towards the MA Graduate Research Assistant position at \$7,706.00 in year one and \$8,091.00 in year two of the project. In addition the Department will provide office space valued at \$5,250.00 (per year) for a total of \$10,500.00 over two years. c. Faculty of Science – Chemistry

The Department of Chemistry will provide office space valued at \$7,000.00 per year (\$14,000 total) to enable students, staff and partners to access space linked to nanotechnology research at the University. This shared space is an essential aspect of integrating social scientific research within the cultures and environment of nanotechnology research at the University. It will also raise the profile of the research project and partnering activities within the Faculty of Science.

2. Partner Contributions

- a. Each of our four confirmed partners (AITF, NINT, TEC Edmonton and NAIT) has committed to participate as a member of the project steering committee as well as in stakeholder and community engagement activities. An in-kind contribution for each partner has been calculated at the rate of \$400/day for 8 days (\$3200 per year \$6400 over two years).
- b. NanoAlberta, AITF has agreed a draft budget to finance and support the hosting of two proposed engagement activities (Citizen Panel and Citizen Engagement) for a total of \$48,808.00. Please refer to partnership evidence.
- c. TEC Edmonton has agreed to fund in cash 1/3 of a one year MBA studentship (\$7647.00 12hrs per week), and offered in-kind support in assisting the project to raise a further 1/3 of the studentship dependent on SSHRC funding the final 1/3.

3. Further Support

Through our partnership we will seek to leverage further funds in the following areas:

- a. Growing our partnership (see formal partnership strategy) to include commercial and municipal partners will extend the membership of our steering committee, stakeholder and engagement activities.
- b. We will be seeking sponsorship for a dedicated special issue of Curb Magazine (see knowledge mobilization). \$15,000.00
- c. Working with NanoAlberta we will be working to further develop our citizen engagement activities to coordinate with other public outreach activities.
- e. Working with our partners we will be seeking to recruit the support of a broadcaster to aid in the development and broadcasting of our audio documentary (e.g. CKUA, CBC Edmonton).

4. Benefits to Partners

The shared contributions of the University of Alberta and our partners demonstrate a shared perception of mutual benefit for the activities proposed in this application. The contributions make possible the range of activities we seek to conduct, as well as the knowledge we are seeking to produce.

Training and Mentoring

Student training is integral to this project. Through our proposed partnering activity we are seeking to combine unique opportunities for students to participate in a range of engagement and research activities, access to wider employment networks and to receive academic training. NINT is an environment of unique skills and understandings.

<u>Masters Student (2 years):</u> An MA graduate research assistant will be employed by the CRSC for the entire term of the project and will play an important role in assisting the project team facilitate partnership activities. Training will be provided in project management, community engagement and public outreach, as well as in the academic fields in which this project is situated.

Masters Student (1 year), Commercialisation and the City-Region: An MBA student will be employed in the first year of the project and be hosted by TEC Edmonton. The student will serve as a TEC Edmonton intern and be involved in researching the relationship between commercial start-ups, community and urban form. In addition this unique understudy opportunity will function as a bridge between project expertise and TEC Edmonton, with a specific role of fostering the development of socially informed approaches to science and technology within commercial innovation strategies.

<u>Doctoral Student (2 year):</u> A doctoral level graduate research assistant will be employed to assist in both research and engagement aspects of the project. This student will be supported by the research coapplicants and receive training in participatory research methods, data analysis and in community engagement techniques. The student will assist the research team develop a series of reflexive research activities intended to contribute to knowledge of how socially robust practices of partnering and engagement can be fostered in relation to regional innovation strategies.

<u>Post-doctoral Fellow (2 years):</u> A post-doctoral fellow will be engaged for two years in all aspects of the project and will be expected to provide significant, original contributions to the project in terms of research design, data collection, network analysis and dissemination. The post-doctoral fellow will receive interdisciplinary supervision and support from the project Co-Applicants, and will be expected to work closely with all of the partners involved in this project.

Students and Postdoc will assist with and co-author at least one article with the principle investigator who has outstanding experience mentoring students in the co-authoring process (e.g. Sharkey and Shields 2008; Shields and West 2003; Davidson, Park and Shields 2010) recognized by a Graduate Student Association Award (2009). Students will also be supported to craft articles and presentations at conferences (e.g. Jones and Sluggett, 2011). Mentoring capacity is extended by Dr. Jones as a co-PI who has teaching and graduate supervision experience in both Canada and the UK. Prof. Peterson has extensive cross-disciplinary supervision experience as a chemist working with nanotechnologies and as former Executive Director of NINT where he worked with scientists, students, administrators and the public. Students will also have access to international networks of expertise through our international collaborators.

The CRSC offers a collaborative shared research site in downtown Edmonton in the Faculty of Extension and in the same building as TEC Edmonton. Our (manager, events coordinator, research associates, faculty affiliates) staff work with the communities that make up the Alberta Capital Region. CRSC's complement of researchers and visiting scholars offer expertise in digital, qualitative, participatory and engaged social research (eg. Nvivo, interviews, charettes and facilitation skills) to students working from our offices.

Knowledge Mobilization (Please refer to *Goal and Project Description* for timeline of activities)

To achieve partnership aims the proposed knowledge mobilization activities simultaneously inform and integrate research findings with engagement activities to contribute to policy, practice and theory. We further seek to engage in shared learning and knowledge transfer across a multitude of sectors, as well as with the wider public.

Project Steering Committee (Year 1&2): During a Killam-funded pilot project, a Steering Committee was established to develop collaborations with leaders from government, business, the scientific community, and the municipalities in the Alberta Capital Region. We intend to expand and maintain this Committee as an essential means of engaging our partnership network in all aspects of the project, and as a means of facilitating the communication of results back into our partner communities. This committee will meet bi-annually during the term of the project, and participate in our community engagement activities.

Planning Working Group (Year 1&2): This committee will be formed out of the Project Steering Committee with an expanded membership to include a wider representation of regional municipalities and city planners. It will provide essential expertise to the project in addressing how communities can 'plan for innovation', and also act as a means of linking project expertise and conclusions with planning practitioners and city-region communities of practice. This group will engage in a facilitated study of the process and initial results of the research in order to formulate guidelines for the city-region. It too will meet bi-annually.

Engagement with Communities (End of Year 1): Two overlapping citizen engagement exercises will be held to encourage shared learning between the partnership and the wider Edmonton community:

A. Citizen Panel: This panel will allow engaged citizens to learn about nanotechnology and how it can impact issues of sustainability and development in Edmonton. This weekend event will involve a mutual learning workshop for up to 24 participants including the researchers, the Project Steering Committee, Planning Working Group and key individuals from the Alberta Capital Region. We hope to increase understanding and elicit the interest and attention of professional and technical communities of practice not already engaged with nanotechnologies and regional development. This panel will be adapted from a UK exercise which was facilitated by Wilsdon, Stilgoe and Jones (Irving et al., 2006).

B. Community Engagement Exercise: A more inclusive engagement exercise will be held in conjunction with Alberta Innovates Technology Futures (AITF). Our contribution will be a one-day public learning demonstration as part of a larger set of Province-wide activities. We aim to encourage public knowledge and participation in nanotechnology development initiatives and to integrate public framings in dominant innovation discourses. We expect to attract the attention of those developing or renewing skill sets in related areas and trades in conjoint fields, local potential angel investors.

Dissemination:

<u>Community Engagement Report (Year 1):</u> Following our engagement activities, CRSC will publish a Report (online and in paper) documenting the process and providing key observations and recommendations. Participants will play an important role in producing content for this report.

<u>Audio Broadcasting (Year 1&2):</u> We will be gathering material from the engagement activities for an audio documentary. This material will be available initially as audio podcasts, and later will form the basis for a radio documentary which invites audiences to join innovation debates in the Alberta Capital Region.

<u>CURB Magazine (Year 2):</u> Since 2010, CRSC has published Curb Magazine which is dedicated to sharing practical policy and research about cities and regions. It is distributed to all municipal, band and regional planning offices in Northern and Western North America. As part of a 2012 issue of Curb Magazine on Innovation and Community Development, CRSC will be sharing results from our previous Killam Foundation pilot project. In 2014 another issue will be published focusing on project outcomes and the work of the Planning Group in particular.

<u>Policy Workshop and Conference (Year 2):</u> Because there is a strong need to link academic research on innovation and community development on the one hand, and people who work in policy and government planning on the other, we will be hosting a Policy Workshop and Conference event at the completion of this project. The workshop will involve presentations and discussion groups that connect leading scholars with local Edmonton planners, creating an excellent space for knowledge mobilization between these often isolated sectors.

<u>Website (Year 1&2):</u> A dedicated web portal will be maintained on the CRSC's website (www.crsc.ualberta.ca). It will operate as a space for communication among the various partners, activities and stakeholders, as well as a public access point. CRSC has a long established record of using social media (twitter, facebook) and new media (such as podcasts and videocast interviews).

Academic Dissemination (Year 1&2): We will present and publish our findings in academic venues such as international conferences and journals. The communication of our research data and lessons learned within academic circles will ensure that our project is both theoretically and methodologically rigorous. We intend to present at the Society for the Social Studies of Science (4S); the conference of the Association of American Geographers; and at regionally focused conferences for municipal leaders and planners. We plan to publish across two main fields of research: science and technology studies (SSS; ST&HV, Science as Culture); innovation and regional planning (Regional Studies; Innovation: The European Journal of Social Sciences; Space and Culture).

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Edmonton

250 Karl Clark Road Edmonton, AB Canada T6N 1E4 Tel 780.450.5111 Fax 780.450.5333 Calgary

3608 – 33 St NW Calgary, AB Canada T2L 2A6 Tel 403.210.5222 Fax 403.210.5380 Vegreville

P.O Bag 4000 Vegreville, AB Canada T9C 1T4 Tel 780.632.8211 Fax 780.632.8385 Devon

C/O 250 Karl Clark Road Edmonton, AB Canada T6N 1E4 Tel 780.450.5111 Fax 780.450.5333

November 1, 2011

Prof. Rob Shields and Dr. Kevin Jones CRSC, Faculty of Extension 2-184 Enterprise Square 10230 Jasper Ave. Edmonton, AB T5J 4P6

Dear Rob and Kevin:

I am writing to confirm our support for your application to the SSHRC Partnership Development Grant Program in the area of nanotechnology and the community. I, or another representative of Alberta Innovates - Technology Futures (AITF), will be happy to participate as a partner for the entire term of the project and will support the development of the project's research and engagement activities by:

- continuing our membership on the project steering committee
- providing expertise on policy and strategy development relating to nanotechnology in the Province of Alberta
- participating in the engagement activities as representatives of AITF and in helping facilitate the development of a public dialogue around nanotechnology
- assisting the project to liaise with Alberta's emerging nanotechnology sector
- provide financial support for the development of the Citizen Panel and Community Engagement activities as outlined in the attached activity description and budget

I see this as an interesting and potentially very rewarding project and hope that through our participation we will be able to foster greater innovation and engagement with nanotechnology in the community.

Sincerely,

Dan Djukich

Director, nanoAlberta

DD/ifm



APPENDIX: Summary Budget for Engagement Activities (Shields - Nanotechnology in Alberta Capital Region)

Agreed in Principle by NanoAlberta, AITF in support of SSHRC PDG application

Draft Budget Engagement Activities

	Two-day Citizen Panel	One-dayEngagement Exercise	subtotal
Facility, AV, Catering	2091.25	2405	4496.25
Speakers & Facilitators	18375	8000	26375
Output			10200
Promotion			1000
Admin & Hosting			2300
TOTAL			44371.25
Cost overrun 10%			4437.125
GRAND TOTAL			48808 38

Nanotechnology Engagement Activities

Facility and AV		Citizen Panel (2 days)	Engagement Exercise (1 day)	TOTAL
Facility	Aurora Room - Lister	\$650.00		
Facility	Hall, U of A Aurora Room AV	\$550.00		
	Maple Leaf Room	4000.00	\$750.00	
	Maple Leaf AV		\$275.00	
	Coffee (morning			
Catering	service, afternoon refill)	\$225.00		
-	Lunch	\$550.00		
	Coffee & snacks		\$1,200.00	
	Gratuity (15%)	\$116.25	\$180.00	
		\$2,091.25	\$2,405.00	\$4,496.25
Speakers & Facilitators				
	Subcontract Sussex			
	University	\$7,000.00		
	Accommodation (5			
	nights)	\$900.00		
	Per Diem (5 days)	\$225.00		
	Travel	\$2,000.00		
	International experts (total 4) Accommodation (5			
	nights)	\$1,800.00	\$1,800.00	
	Per Diem (5 days)	\$450.00	\$450.00	
	Travel	\$4,000.00	\$4,000.00	
	Citizen Participants (15)	\$1,500.00	\$750.00	
	Support experts (10 x	ψ1,000.00	Ψ100.00	
	\$50 gas cards) Local travel (10 experts	\$500.00	\$500.00	
	x \$50 gas cards)		\$500.00	
		\$18,375.00	\$8,000.00	\$26,375.00

Output				
Audio program	Recording equipment & operator Transcription Editing	\$2,200.00 \$1,000.00 \$2,000.00		
Printed report	notetaking (student volunteers) Copy editing (30 hours		\$0.00 \$1,500.00	
	x \$50) Layout (15 hours x		φ1,500.00	
	\$50)		\$750.00	
	Printing		\$2,500.00	
	Distribution		\$250.00	_
		\$5,200.00	\$5,000.00	\$10,200.00
Promotion				\$1,000.00
Admin	Delegate package/copying	\$100.00		
	Delegate package/copying		\$200.00	
	Participant Packs	\$500.00	\$500.00	
	•	•	•	
	Hosting	\$500.00	\$500.00	40.000.00
		\$1,100.00	\$1,200.00	\$2,300.00
0 10				\$44,371.25
Cost Over run 10%				4437.125
			TOTAL	\$48,808.38



November 18, 2011

Professor Rob Shields and Dr. Kevin Jones CRSC, Faculty of Extension 2-184 Enterprise Square 10230 Jasper Ave. Edmonton, AB T5J 4P6

Dear Rob and Kevin,

I am writing to confirm our support for your application to the SSHRC Partnership Development Grant Program in the area of nanotechnology and the community, and for the project's aims and objectives. I or another representative of TEC Edmonton will be happy to participate for the two-year term of the project as a partner. We will support the development of the project's research and engagement activities by:

- · continuing our membership on the project steering committee;
- sharing expertise in the area of commercial innovation and business development with the research team;
- acting as a liaison between the project and the emerging nanotechnology industry in Alberta;
- participating in the project's proposed stakeholder and citizen engagement exercises as experts in innovation and business development;
- sponsoring a Masters level graduate research assistant for a period of one year, with the intent that the cost for the student (\$22,938) would be borne 1/3 by SSHRC, 1/3 by TEC Edmonton, and 1/3 from other sources that we will identify in advance of the RA's commencement on the project. In addition, we will provide expertise in mentoring this student and involve the student in our day-to-day activities. The student in turn will be expected to contribute to TEC Edmonton by bridging the expertise being developed in the project with the activities of our organization.

We see this as an interesting and potentially very rewarding project and hope that through our participation we will be able to foster greater innovation and engagement with nanotechnology and innovation in the community.

Sincerely yours,

Chris Lumb, P. Eng. CEO, TEC Edmonton



National Research Council Canada Conseil national de recherches Canada



Prof. Rob Shields and Dr. Kevin Jones CRSC, Faculty of Extension 2-184 Enterprise Square 10230 Jasper Ave. Edmonton, AB T5J 4P6 November 16, 2011

RE: Your "Nanotechnology and the Community" SSHRC Partnership Development Grant Program Application

Dear Rob and Kevin,

The National Institute for Nanotechnology is pleased to confirm our support for your application to the SSHRC Partnership Development Grant Program in the area of nanotechnology and the community. We would be happy to participate in and assist the project over its term. For instance, we offer to support the development of the project's research and engagement activities by:

- continuing our membership on the project steering committee;
- providing technical expertise on developments in nanotechnology and the role of facilities such as NINT to the project as a whole, and in the following areas in particular:
 - a) assisting the development of case studies and issues around which the citizen panel and community engagement activities would take place.
 - b) assistance in preparing learning materials for citizens participating in these exercises.
- participating in the engagement activities by contributing scientific expertise and in helping facilitate the development of a public dialogue around nanotechnology;
- assisting the project to liaise with Alberta's emerging nanotechnology sector.

We consider your proposed work to be valuable to our mission and potentially very rewarding for our community. When the community participates in such initiatives, its gains a facts-based confidence in the safety of, regulatory framework for, and societal benefits related to nanotechnology based innovation. That confidence is essential to enable NINT and its stakeholders to smoothly deploy such innovation in fulfillment of our mandate.

Sincerely yours,

Marie D'Iorio

A/Director General







18 November 2011

Prof. Rob Shields and Dr. Kevin Jones CRSC, Faculty of Extension 2-184 Enterprise Square 10230 Jasper Ave. Edmonton, AB T5J 4P6

Dear Rob and Kevin,

I am writing to confirm our support for your application the SSHRC Partnership Development Grant Program in the area of nanotechnology and the community and for the project aims and objectives. I shall be pleased to participate for the entire term of the project as a partner. We will support the development of the project's research and engagement activities by:

- joining the membership of the project steering committee for the term of the project;
- lending expertise to inform the project development in areas relating to product design and the commercial development of nanotechnologies;
- participating in citizen panel and engagement activities as experts in product development and skills training;
- participate in the development of research activities relating to training and career development in the nanotechnology sector in Edmonton;
- support NAIT technology students in participating in citizen panels and engagement activities.

We see this as an interesting and potentially very rewarding project and hope that through our participation we will be able to foster greater innovation and engagement with nanotechnology in the community.

Sincerely yours,

David C. Carpenter

Dean, School of Information Communication and Engineering Technology,

NAIT



Office of the Dean Faculty of Extension

2rd Floor Enterprise Square, 10230 Jasper Avenue Edmonton, Alberta, Canada T5J 4P6

www.extension.uaibefa.ca exidean@ualberta.ca

Tel: 780.492.2681 Fax: 780.492.6735

November 21, 2011

To:

Rob Shields

Director, City-Region Studies Centre (CRSC)

From: Katy Campbell

Dean, Faculty of Extension

Re:

Faculty of Extension support for SSHRC Partnership Development Grant application

I am writing to express the Faculty of Extension's strong support for the SSHRC Partnership Development Grant proposal "Nanotechnology and the Capital City-Region - A Case Study in Integrating Communities, Innovation, and Development" submitted by Dr. Rob Shields and Dr. Kevin Jones in the City-Region Studies Centre.

To support this project, the Faculty of Extension will make available and support existing workstations within the City-Region Studies Centre (CRSC) for three graduate research assistants for the duration of the project, as well as an office for Dr. Jones, as an in-kind contribution equivalent to approximately \$13,000 per year. In addition, the Faculty of Extension will continue to support and endorse the work of the CRSC in promoting knowledge mobilization events and disseminating the project results to its broad, community-based network.

This project has my strong support and I look forward to a future research partnership based on its findings.

Sincerely,

Katy Campbell, PhD

ampbell

Dean



Department of Sociology Faculty of Arts

5-21 t-M fory Boilding Edmonton, Alberta, Canada, 16G-284 systematis on pesta carsocwets

fel 780,492,5234 Fex: 780,492,7196

Date: November 21, 2011

To: Rob Shields, Professor and Tory Chair

Department of Sociology

From: Helen Boritch, Acting Chair

Department of Sociology

Re: Department of Sociology Support for SSHRC Partnership Grant Application

The Department of Sociology is pleased to support your principal investigator role on the SSHRC Partnership Development Grant Proposal entitled, "Nanotechnology and the Alberta Capital Region – A Case Study in Integrating Communities, Innovation and Development".

Should this application be successful the Department of Sociology will contribute funding for a 6 hours per week graduate research assistantship (GRA) at the starting Master's rate of \$7,706 per year (subject to 5% increase scale adjustment per annum) in support of the University of Alberta portion of the project, for a total of \$15,797 over the two year course of the project.

Sociology will also provide the project with a standard sized office as required to accommodate students, international collaborators, etc., who are contributing to the initiative (in kind service valued at \$5,250 annually) for a total value of \$10,500 over the two years.

The total department graduate research assistantship and in kind contributions will amount to \$26,297 over the course of the project.

I encourage you to secure any type of matching support from the Faculty of Arts and the University as this will be critical to the success of your application.

Thank you.

Helen Boritch

cc Curtis Champagne, Assistant Chair

www.chem.ualberta.ca chair@chem.ualberta.ca Tel: 780.492.3249 Fax: 780.492.8231

November 25, 2011

Dr. Kevin Jones and Professor Rob Shields CRSC, Faculty of Extension University of Alberta

Dear Dr. Jones and Prof Shields:

Re: Room Space in Department of Chemistry

In response to your request for space in the Chemistry Centre to Dr. Petersen, I wish to clarify a few items.

The space that you are requesting for four student desks can be offered if the grant proposal is successful, considering that Dr. Petersen is a co-applicant. Dr. Petersen has offered up his outer office located in Room W4-17, Gunning Lemieux Chemistry Centre.

It is quite feasible that the Chemistry building will undergo some renovations sometime in the next few years and it could be a possibility that the space being offered will have to be decanted during the renovation process. Chemistry will not be responsible for finding alternate space for these students should that be the case.

If these restrictions are agreeable to you, I am happy to support your request for student space. If you require further clarification, I can be contacted at 780-492-3249 or by email at jed.harrison@ualberta.ca.

Sincerely.

D. Jed Harrison

Chair, Department of Chemistry



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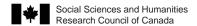
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Shields				Rob)					M	Professor
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Full name Rob Sh		uring previo	ous contact, if different fro	m abo	ove						
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1 7	80	4920627	7								
Primary E-	-mail	rshield	s@ualberta.ca								
Secondary	y E-mail										

Web CV 2011/11/29 **Canadä**



Family name, Given name
Shields, Rob

Current Address Use only if you are not affiliated with a university. (If you are affiliated with a university, the department's mailing at wish to use another address, specify i Address.	department at a ddress will be u	a Canadian used.) If you	Correspondence Address Complete this section if you wish your correspondence to be sent to an address other than your current address.					
Address Henry Marshall Tory Chair	and Directo	or	Address City-Region Studies Centre					
City-Region Studies Centre			2-184 Enterprise Square					
Enterprise Sq., 2-184, 10230	O Jasper Av	ve.	10230 Jasper Ave.					
City/Municipality Edmonton	Prov. / State	Postal/Zip code	City/Municipality Edmonton	Prov. / State	Postal/Zip code			
Country CANADA			Country CANADA					
Temporary Address If providing a temporary address, pholensure that you enter the effective date.		l/or E-mail,	Permanent Address in CAN	ADA				
Address			Address 12212 39A Ave.					
City/Municipality	Prov./ State		City/Municipality Edmonton	Prov./ State	Postal/Zip code			
Country	1		Country CANADA					
Start date (yyyy/mm/dd)		d date //mm/dd)	Temporary telephone/fax number Country Area Number code code	Extension	n			
Temporary E-mail								



Family name, Given name

Shie	lds.	Rob
	LUD,	1100

Research Expertise (optional)	Research	Expertise	(optional)
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The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

Rank	Code	Area
1	120	Communication
2	244	Innovation, Industrial and Technological Development
3	382	Youth

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

From	То
Year ———————————————————————————————————	Year BC AD ○ ● ○ ○

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

ιι αρρι	icabic, indicate	than talk up to 5 geographical regions covered by your research interests. Duplicate chines are not permitted.
Rank	Code	Region
1	1140	Northern Canada
2	3000	Europe
3	6200	East Asia

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

Rank	Code	Countries	Prov./ State
1	1100	CANADA	
2	1200	UNITED STATES	
3	3225	UNITED KINGDOM	
4	6205	KOREA, SOUTH	
5	2003	BRAZIL	

Personal information will be stored in the Personal Information Bank for the appropriate program.





Curriculum Vitae

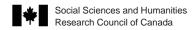
Family name, Given name

Shields, Rob

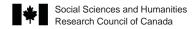
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Current position								Start date (yyyy/mm)
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1480111	University of	of Alberta						
Department/Division	name							
Sociology / De	ept. of Art and	d Design						
Position type	Tenured	○ No	n-tenure	Employmen	t status	Full-time	Part-tii	me
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Position							Start date (yyyy/mm)	End date (yyyy/mm)
Director							2009/8	()))),,
Org. code	Full organization	name						
1480111	University	of Alberta	l					
Department/Division	name							
City-Region S	tudies Centre	:						
Position							Start date (yyyy/mm)	End date (yyyy/mm)
Director							2009/7	2010/12
Org. code	Full organization	name						
1480111	University	of Alberta	ı					
Department/division	name							
Arts Intermedi	a Research S	tudio						
Position							Start date (yyyy/mm)	End date (yyyy/mm)
Visiting Profes	ssor						2002/1	2002/12
Org. code	Full organization	name						
9135115	Helsinki U	niversity (of Technolog	У				
Department/Division	name				_			
Urban and Reg	gional Plannii	ng						
Personal information will	be stored in the Per	sonal Information	on Bank for the appr	ropriate progran	n.			Web CV

Personal information will be stored in the Personal Information Bank for the appropriate program.

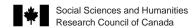




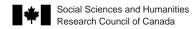
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Position		Start date (yyyy/mm)	End date (yyyy/mm)
Full Profess	or	2000/1	2004/7
Org. code	Full organization name	12000/1	1200117
1350211	Carleton University		
Department/Divi	sion name		
Sociology as	nd Anthropology		
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Editor		(yyyy/mm) 1997/1	(yyyy/mm) 2006/12
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Space and C	Culture - International Journal of Social Spaces		
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9135111	University of Joensuu		
Department/Divi	sion name		
Finnish Cul	tural Studies Network Advanced School		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Lecturer		1995	1997
Org. code	Full organization name		
9121122	Lancaster University		
Department/Divi	sion name		
Sociology			
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Visiting Pro	fessor	1995	1995
Org. code	Full organization name		1
9129103	Aalborg Universitet		
Department/Divi	sion name		
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Work Experience	ence (cont'd)		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Postdoctoral fe	llow or associate	1990	1990
Org. code	Full organization name		
9156105	Université René Descartes Paris V		
Department/Division	name		
Centre d'Etude	s sur l'Actuel et le Quotidien		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Postdoctoral fe	llow or associate	1989	1989
Org. code	Full organization name		
9121122	Lancaster University		
Department/Division	name		
Sociology			
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Part-time session	onal lecturer	1987	1988
Org. code	Full organization name		
1	Brighton College of Technology, Brighton U.K.		
Department/Division	name		
Adult Education	on - Geography		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
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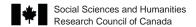


Family name, Given name
Shields, Rob

Academic B	ackground			
List up to 5 degrees	s, beginning with the highest degree first and all others in reverse chronologic	cal order, bas	sed on the start	date.
Degree type Doctorate	Degree name	Start date (yyyy/mm) 1986/10	Expected date (yyyy/mm)	Awarded date (yyyy/mm) 1989/06
Disc. code	Discipline		Did SSHRC su you to get this	
61400	Urban and Regional Studies, Environmental Studies		Yes	● No
Org. code	Organization			
9121140	University of Sussex			
Country UNITEI	KINGDOM			
Degree type	Degree name	Start date	Expected date	Awarded date
Mastarla		(yyyy/mm)	(yyyy/mm)	(yyyy/mm)
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63400	Sociology		Yes	● No
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1350211	Carleton University			
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BA Gen.		(yyyy/mm) 1979/09	(yyyy/mm)	(yyyy/mm) 1983/06
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70000	Interdisciplinary Studies		Yes	● No
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Org. code	Organization			
Country				
Degree type	Degree name	Start date	Expected date	
		(yyyy/mm)	(yyyy/mm)	(yyyy/mm)
Disc. code	Discipline		Did SSHRC su	
			Yes	No
Org. code	Organization			
Country				

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Credentials

List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

Category	Name	Source or Country	Duration (Months)	Value / Year awarded
Academic Prize	Merit Award Graduate Students Assoc. U of Alberta	CANADA		2009
Academic Prize	H.M.Tory Research Chair (endowed, continuing post)	CANADA		2004
Academic Prize	Research Leader of Tomorrow - PAGSE	CANADA		2004
Non-Academic Prize	Outstanding Publication of the Year Award	CANADA		1991
Postdoctoral Fellowship	SSHRC	CANADA		1989
Graduate Scholarship	Commonwealth Scholarship	UNITED KINGDOM		1985

Research Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

Cultural geography, ethnography and qualitative methods, urban sociology, sociology of tourism and contemporary culture, 20th century French intellectuals and contemporary theories of social science

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

Rank	Code	Discipline	If Other, specify
1	70000	Interdisciplinary Studies	
2	99999	Other	Cultural Studies
3	63400	Sociology	
4	61400	Urban and Regional Studies, Environmental Studies	
5	61820	Social/Cultural Geography	

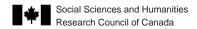


Family name, Given name	
Shields, Rob	

Funded	Research			
	grants or contracts you have received from SSHR d. If you are not the applicant (principal investigat		chronological orde	er, based on the
Org. code	Full name of funding organization		Year awarded (yyyy)	Total amount (CAN\$)
3010325	Social Sciences and Humanities R	desearch Council of Canada	2011	\$37,000
Role	Applicant		Completion status	s Complete
Project title	Re-imagining the Minimall			
Applicant's f	amily name	Applicant's given name		Initials
Org. code	Full name of funding organization		Year awarded	Total amount (CAN\$)
1	Killam Foundation		2010	\$30,000
Role	Applicant		Completion status	
Project title	Community and Nanotechnology i	n the Edmonton Region'		
Applicant's f	amily name	Applicant's given name		Initials
Org. code	Full name of funding organization Social Sciences and Humanities R	Jacobrah Council of Canada	Year awarded (yyyy)	Total amount (CAN\$)
3010325	Social Sciences and Humanities N	escarcii Councii oi Canada	2010	\$2,500,000
Role	Co-applicant		Completion status	s Complete
Project title	MCRI "Global Suburbanization"			
Applicant's f	amily name	Applicant's given name		Initials
Keil		Roger		
Org. code	Full name of funding organization	1.0 1.60 1	Year awarded (yyyy)	Total amount (CAN\$)
3010325	Social Sciences and Humanities R	Research Council of Canada	2003	\$86,454
Role	Applicant		Completion status	
Project title	Workplaces and Workdays in a Sn information-related work	nall Town: Changes in the tim	es, spaces and	l place of
Applicant's f	amily name	Applicant's given name		Initials

Personal information will be stored in the Personal Information Bank for the appropriate program.





Funded	Research (cont'd)			
Org. code	Full name of funding organization Social Sciences and Humanities R	Research Council of Canada	Year awarded (yyyy)	Total amount (CAN\$)
3010325	~ 0 0 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2000	\$58,000
Role	Applicant		Completion statu	s X Complete
Project title	The Culture of the Building Site: I	nnovation in the Canadian Co	nstruction Inc	lustry
Applicant's f	amily name	Applicant's given name		Initials
Org. code	Full name of funding organization		Year awarded (yyyy)	Total amount (CAN\$)
3010325	Social Sciences and Humanities R	Research Council of Canada	2000	\$390,000
Role	Applicant		Completion statu	s X Complete
Project title	The Impact of a Knowledge Based Organization of Knowledge and E Knowledge-based Economy Strate	xpertise (Challenges and Oppe		
Applicant's f	amily name	Applicant's given name		Initials
Org. code	Full name of funding organization		Year awarded (yyyy)	Total amount (CAN\$)
1	National Centre for Geographic Ir	nformation Applications	1998	\$3,400
Role	Applicant		Completion statu	s X Complete
Project title	Community Networking and Loca	l Identity		
Applicant's f	amily name	Applicant's given name		Initials
Org. code	Full name of funding organization		Year awarded (yyyy)	Total amount (CAN\$)
1	Carleton University		1997	\$4,000
Role	Applicant		Completion statu	
Project title	Organized Research Unit on Innov	vation Research	1	
Applicant's f	amily name	Applicant's given name		Initials

Personal information will be stored in the Personal Information Bank for the appropriate program.

1. Research Contributions in the Last Six Years (2005-2011)

.1 Refereed Contributions

Edited Books

- R Ecologies of Affect: Placing Nostalgia, Desire and Hope Co-Editor with Tonya Davidson and Ondine Park,
 - Waterloo: Wilfred Laurier University Press. Aid to Scholarly Publication Grant. 2011.
- R *What is a City? Rethinking the Urban After Katrina*. Co-Editor with Philip Steinberg. Athens: Georgia University Press. 2008. 233pp.
- R* *Building Tomorrow: Innovation in Construction and Engineering*. Co-Editor with André Manseau. London: Ashgate 2005. 184pp.

Book Chapters (Selected)

- R 'The Tourist Affect' in T. Davidson and O. Park, R. Shields *Ecologies of Affect*. Waterloo ON: Wilfred Laurier University Press. 2011.
- R With Ignacio Farias, 'Interview with Rob Shields' in *Urban Assemblages. How Actor-Network Theory Changes Urban Studies*. London: Routledge 2009. pp. 291-301.
- R 'True North Strong and Free' in *Canadian Cultural Studies: A Reader* Sourayan Mookerjea, Imre Szeman and Fail Faurschou, eds. Durham NC: Duke University Press 2009. pp. 276-288.
- R 'Delta City' in P. Steinberg and R. Shields 'What is a City? Rethinking the Urban After Katrina, Athens: Georgia University Press. 2008. pp.78-93.
- R 'Uhåndgribeligheder og Virtualiteter' ('Intangibles and Virtualities') in A. Scott Sorensen and Zerland, M. (eds.) *Kulture uden Centre*, Aarhus, Denmark: Klim. pp. 226-48. 2006.
- R 'Cyberurbe: Virtuality in Salvador' in A. Lemos (ed.) *Ciberurbe: A cidade na sociedade da informação. Cibercidade II.* (Cyberurb The city and society of information, Cybercity 2) Rio de Janeiro: E-Papers. pp.35-42 2005.
- R 'The Virtuality of Urban Culture: Blanks, Dark Moments and Blind Fields', *Soziale Welte: Die Wirklichkeit der Stadte* Vol. 16. H. Berking and Martina Löw, issue eds. and dirs. Baden-Baden: Nomos Verlagsgessellschaft 2005. pp. 377-386.

Journal Articles

- R with Barret Weber, 'The Virtual North: On the Boundaries of Sovereignty' *Ethnic and Racial Studies* 34:1. Nov. 2010. pp.103-120.
- R 'Social Spatialisation and Cultural Topology' "社会空间化与文化拓扑学" *International Cultural Studies China* (Chinese Academy of Social Sciences). Zhang Jian (trans.) 2010. Available online in Chinese: http://www.docin.com/p-152929119.html and in English: http://culturestudy.com.s38.4bo.me/2010/0724/46.html
- R with Gerhardt, Hannes et al. 'Contested Sovereignty in a Changing Arctic' *Annals of the Association of American Geographers* 100: 4 2010, pp.992-1002.
- R* with Andrea Sharkey, 'Abject Citizenship Rethinking Exclusion and Inclusion: Participation, Criminality and Community at a Small Town Youth Centre' *Childrens' Geographies* 6:3. 2008. pp.239-256.
- R 'The Urban Question as Cargo Cult: Opportunities for a New Urban Pedagogy' *International Journal of Urban and Regional Research* 32:3 2008. pp.**712-718.**
- R* 'Hope and Fear in Biotechnology: The Space-Times of Regulatory Affect' *Space and Culture* 10:2. Summer. 2008. pp.125-141.
- R 'O que e que a olhadela comunica?' *Contemporanea* 5:1-2. 2008. (What does the glance communicate) In Portuguese. www.contemporanea.poscom.ufba.br/htmls_ing/v5_1_2_dez07.html
- R* 'Les Sciences Sociales et les Virtualités', Sociétés 91 (Spring 2006/1). 2006. pp. 55-67. In French.
- R 'Flânerie for Cyborgs', *Theory Culture and Society* 23:7-8. 2006. pp. 209-220.

- R* With Carrie Sanders 'Biotech Barbeque: A Regulatory Figuration and Policy Making'. *Fast Capitalism* 2:1. Online journal. www.uta.edu/huma/agger/fastcapitalism/2 1/shields.html Summer 2006.
- R 'Knowing Space'. Theory Culture and Society 23:2-3. 2006. pp.146-49.
- R 'Virtualities'. Theory Culture and Society 23:2-3. 2006. pp. 284-86.
- R 'Boundary-Thinking in Theories of the Present: The Virtuality of Reflexive Modernization'. *European Journal of Social Theory* 9:2. 2006. pp.223-238.
- R with Matthew Tiessen, 'Urban Calamities' In Space and Culture. 9:1 (Jan-Feb). 2006.
- R 'Building the Future: Innovation, Design and the Virtual', *Nordisk Arkitekturforskning Nordic Journal of Architectural Research*, 18:4. 2005. pp.13-20.

.2 Other Refereed Publications

Conference Proceedings:

R* 'Mobile Phone Imaging as Gesture and Momento' Martha Ladly and Philip Beesley (eds.) *Mobile Nation: Creating Methodologies for Mobile Platforms* Waterloo: Riverside Architectural Press, 2008. pp. 47-52.

Numerous conference papers, keynote and plenary papers internationally.

.3 Non-Refereed Contributions

Magazines

'Curb Appeal: Community' Curb Magazine 1:2. 2010. pp. 1-2.

'Curb Appeal: Place-based Policy' Curb Magazine 1:2. 2010. pp. 2.

with Andres Kurg, 'Linn, urbanisus, virtualsus - Vestlus Rob Shieldsiga', *Virkerkaar* 4-5. 2004. pp. 153-159. (Place, Urbanism, Virtualism - Interview with Rob Shields). Published in Estonian.

'Curb Appeal: Concluding Thoughts' Curb Magazine 1:1. 2009. pp. 23-24.

Encyclopaedia Entries (Selected)

'Lefebvre, Henri.' *International Encyclopedia of the Social Sciences*. Ed. William A. Darity, Jr. 2nd ed. Vol. 4. Detroit: Macmillan Reference USA. 2008. pp.400-401.

Major Review Essays (Selected)

'Book Review: Knowing Places: The Inuinnait, Landscapes and the Environment, Beatrice Collignon' July 2008. 1775 words. www.spaceandculture.org

'Architext: A Book Series on Architecture, Design, History and Discourse'. *Space and Culture Online* Feb. 2008. 2127 words. www.spaceandculture.org

Policy Reports (Selected)

with City-Region Studies Centre researchers, *Partnerships: Responding to the Changing Dynamics of Urban-Rural Interdependency*. Edmonton, CRSC. 2010.

Websites (Sample)

Extensive web authoring and online contributions.

- Contributor, 'Space and Culture Online' Space and Culture. 2003-. http://www.spaceandculture.org
- Contributor, 'Intermedia blog' University of Alberta, Faculty of Arts and Dept. of Sociology Intermedia Studio. 2009-. http://www.intermedia.ualberta.ca

.4 Forthcoming Refereed Contributions

- R City-Regions in Prospect: Place meets Practice. Co-Editor with Kevin Jones and Alex Lord. In progress under contract, McGill-Queen's University Press.
- R Rewriting Lyotard. Co-Editor with Heidi Bickis. In progress under contract, Ashgate 2012.
- R 'Foreword: The New Place of Flows', *ICTS, A New Urban Infrastructure: Surveillance, locative media and global networks*, Pittsburgh: IGI Global. In press. 2011.
- R Cultural Topologies. London: Sage. Forthcoming 2012. Submitted.
- R Deleuze and Guattari Glossary Ottawa: Red Quill. Forthcoming under contract 2012

2. Other Research Contributions

Sample Community Outreach

- Board Member, Youth Centres Canada / Centres Jeneuesse Canada. National organization of street youth centres. 2011--
- City-Region Studies Centre Academic Director. University of Alberta. Overall responsibility for 9 staff, research direction, engaged research, currently on Alberta regions, budget Can\$0.5M. July 2009--
- 'The Space of the Arts' Public lecture series mobilizing faculty and community to discuss the accommodation of fine arts, humanities and social sciences at University of Alberta. Ken Hillis 2005. Thomas Gieryn 2006. Giles Lane 2008. Anthony King 2009.
- Informal seminar and training on urban design debates in the academic literature to Edmonton City Councillors. 2005.
- Member, Organizing Committee, Canadian Association of Cultural Studies Annual Conference, University of Alberta October 2005.

Editorial Responsibilities

- Theory Culture and Society, Editorial Board (London and Beverley Hills: Sage). Refereed interdisciplinary journal, ISI ranked in top 10 interdisciplinary English-language academic journals globally 1995–
- Fast Capitalism, Advisory board. Online, refereed political economy journal. Http://www.fast capitalism.com 2005-
- European Journal of Higher Art Education. Editorial Board. www.ejhae.elia-artschools.org 2004-Editor (and Founder),
- *Space and Culture*. Co-Editor, founding editor and publisher. Refereed interdisciplinary journal of social spaces 1995– Publisher 1997-2001. Published by Sage Publications (USA). ISI Ranked.
- Social Semiotics, Advisory board. Refereed interdisciplinary journal. 2000-
- *CURB Magazine*, Founder, Publisher. (City Region Studies Centre). Knowledge mobilization magazine for planners. 2 issues annually Print run 5000. 2009--.

3. Five Most Significant Career Research Contributions

- 1. Founder, *Space and Culture: International journal of social spaces* Unique experience as founding publisher and editor of a Canadian academic journal. Now published by Sage Publications and In its 13th volume. 448pp. per volume. I continue to be actively involved as part of a recently expanded global editorial team. We have innovated by being one of the first journals to embrace an online presence and have moved book reviews online: *spaceandculture.org*
- 2. Places on the Margin: Alternative Geographies of Modernity. International Library of Sociology, London: Routledge Chapman Hall, 1991. 334 pp. Library Choice Outstanding Publication of the Year Award 1991. Widely referenced.
- 3. *Lefebvre, Love and Struggle: Spatial Dialectics*. London: Routledge, 1999. 218pp. The culmination of 14 years of research beginning with my M.A. thesis. The only complete bibliographic source and only comprehensive English language survey of Henri Lefebvre, the French Marxist philosopher and sociologist, who taught many key intellectuals of the 'Generation of '68', including Baudrillard, Cohn-Bendt and others.
- 4. *The Virtual* (Routledge 2003). Beyond new media and virtual spaces, a study of the cultural and economic significance of intangibles such as brands, risk, terror or community.

- 5. 'Social Spatialization and the Built Environment: The Case of the West Edmonton Mall', *Environment and Planning D: Society and Space*, 7:2 (Summer) 1989. pp.147-164. A widely taught case study of private property in public use which presents my theoretical position on social space.
- **4. Career Interruptions** not applicable.
- **5.** Contributions To Training (Involvement in publication also noted. Supervisions only).
- **Doctoral Supervision** (University of Alberta unless otherwise noted. Total 8 completed since 2005)
 - -Andriko Lozowy, Sociology. Supervisor (in progress). SSHRC-funded Research Assistant.
 - -Barret Weber, Sociology. Supervisor (submitted). Tory Chair Research Assistant. Co-author.
 - -Ondine Park, Sociology. Supervisor (in progress). CRSC Research Assistant. Editorial Assistant, *Space and Culture*, Book co-editor.
 - -Ol'ga Pak, Sociology. Supervisor (in progress). Co-author.
 - -Petra Hroch, Sociology. Supervisor (in progress). Killam Scholar. Co-animator of Workshop.
 - -Tonya Davidson, Sociology. Supervisor (submitted). Editorial Assistant, *Space and Culture*, Coauthor and Book co-editor.
 - -Ipek Oskay, Sociology. Supervisor (in progress). Editorial Assistant, Space and Culture.
 - -Laine Mandlis, Sociology. Supervisor 2011.
 - -Matt Tiessen, Sociology/Art and Design Co-Supervisor 2010. Killam Scholar, Co-author.
 - -Mickey Vallee, Sociology/Music 2010. Tory Chair RA. Co-author. Co-Editor of Website.
 - -Andrea Sharkey, Sociology, Carleton Univ. 2008, Co-supervisor. Interviewer, fully funded on SSHRC SRG. Co-author. Editorial Assistant *Space and Culture* 2002-05.
 - -Yun-Csang Ghimn, Sociology/Communication 2008, Tory Chair RA. Supervisor.
 - -Pablo Markin, Modern Languages and Cultural Studies 2008, Tory Chair RA. Supervisor.
 - -Anne Galloway, Sociology Carleton Univ. 2008. Supervisor. Funded conference travel and fieldwork. Co-editor of Website. Governor General's Medal.
 - -Heidi Rimke, Sociology 2005, Carleton Univ. Supervisory Committee member.

Masters Supervision (University of Alberta unless otherwise noted. Selected.)

- -Jenna Hill, Industrial Design 2011. Co-Supervisor.
- -Susan Kisilevich, Sociology 2011.
- -Ipek Oskay, Sociology 2008.
- -Allison Hui, Sociology 2007. Commonwealth Scholar.

Undergraduate Supervision (University of Alberta):

- -Amy MacDonald Sociology Hons. BA 2009. Governor General's Medal, University Medal.
- -Adam Kaasa Hons. BA 2005.

Examiner for Ph.D.

- -Chris Brenan-Horsely Ph.D. Geography, University of Wollongong. External Examiner 2011.
- -Michael MacDonald Ph.D., Music, University of Alberta. Internal Examiner 2010.
- -Jason Wallin Ph.D., Education, University of Alberta. Internal Examiner 2009.
- -James Cresswell Ph.D., Psychology, University of Alberta. Internal Examiner 2009.
- -Peter Larson, Psychology Ph.D., University of Alberta. External Examiner Jan. 2009.
- -Amie Matthews, Geography Ph.D., Newcastle University, Callaghan NSW Australia. External Examiner Jan. 2008.
- -Jane Daniels, English Ph.D., La Trobe University, Victoria Australia. External Examiner Dec. 2007.
- -Kate Moles Ph.D., School of Social Sciences, Cardiff University, Wales. External Examiner May 2007.
- -Don Bosco Antony Ph.D., National University of Singapore. External Examiner April 2007.

Relevant Experience

Principal Investigator, SSHRC Strategic Grant on the Knowledge Based Economy: 'The Impact of a Knowledge Based Economy on Work in the Public Service: The 'Virtual Organization' of Expertise and Knowledge (2000-03)' considered expertise and the informational aspects of regulation of plants with novel traits (GMOs). Using ethnographic and interview techniques this research considered the ways that knowledge management approaches in the Federal Government.

Relevance: This is directly relevant to (1) my leadership role as Applicant and demonstrates (2) experience with networks of innovators, regulators and those who apply innovation for commercial and qualitative advantage and with **coordinating multi-university teams** of researchers.

Skills: I developed **team leadership, administrative and conflict management** skills beyond the usual academic range of capabilities in mentoring and training.

Publisher and editor of an peer refereed journal *Space and Culture*. Few Canadian academics can list founding a journal in the cv, let alone one that has continued to thrive in print and online. *Space and Culture* ISI ranked. As an entrepreneur and innovator in format and interdisciplinarity this experience was successful in constructing and nurturing a new area of academic investigation (social aspects of spatiality) between architects, geographers, social scientists and media theorists.

Relevance: This is directly relevant to a native understanding of interdisciplinarity and to the development of academic research networks.

Skills: I developed **entrepreneurial, administrative and business accounting** skills including an understanding of the challenges of **exporting** and serving a global customer or subscriber base from Canada in a sector distribution is controlled by foreign gatekeepers. In selling the journal to Sage Publications (USA) I developed skills in **negotiation**, and **partnering**.

Architectural Designer and Draughtsman as undergraduate and as a full-time job in residential and commercial construction.

Relevance: This experience in medium-sized and small private sector practices gained me an appreciation of the challenges of small businesses.

Skills: I learned **project management** in the context of construction sites and everyday conflicts with contractors and the coordination of trades and other consultants.

Principal Investigator 'The Culture of the Building Site: Innovation in the Canadian Construction Industry', an ethnography of the construction of clean-rooms for then-Nortel facilities.

Relevance: The site-based experience of the context of chip-fab and high purity piping, welding and gas supply is directly relevant to the clean facilities used in nanotechnologies. This lends an appreciation of the capital costs and contexts of work in this field.

Skills: This allowed me to hone **fieldwork skills working in enterprise-based contexts** of technical challenge, high capital investment, intellectual property and security considerations.

More broadly, being a **Co-applicant** on a SSHRC MCRI grant on *Global Suburbanism* (R. Keil York Univ. PI 2010-17) and Collaborator on a US National Science Foundation Grant on *Arctic Sovereignty* (P. Steinberg, Florida State Univ. PI 2008-11) gained me experience with **multi-stakeholder research.**

Skills: include contributions to research teams and responsiveness to opportunities generated by other team members.

Being Director of the engaged City Region Studies Centre in the Faculty of Extension has required me

to **work across institutions and firms with stakeholders** as an expert witness to municipal authorities, volunteer on community development projects and collaborator in Alberta's Capital Region Board economic foresight process.

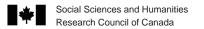
Relevance: Understanding the role of the university within the context of a regional economy and the contributions that can be made within a collaborative context as groups respond to national and international opportunities.

Skills: Supporting established decision-making, regulatory and community processes and communicating to diverse groups.

Publisher and founder *Curb* magazine (2010--) a planning magazine for practitioners sponsored by business and government and distributed by subscription and freely to municipal offices across the North and West of the continent (print run 5000). Also freely available online.

Relevance: Understanding when digital approaches are *not* appropriate due to the environment and the need for a durable presence within the context of planning offices.

Skills: Management of a production team for print dissemination alongside CRSC's extensive online podcast, video-interview and webinar offerings. In addition, I have successfully fund-raised to finance the magazine.

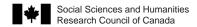


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wilsdon			jam	es			Dr.
Citizens	hip - Applicants a	and co-applicants must in	dicate	e their citizenship status by checkin	g and answerir	ng the applica	able questions.
Citizenship status	Canadian (Permanent resident si (yyyy/mm/dd)	ince	Other (country)			ou applied for nent residency?
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Full name (used during previo	us contact, if different fro	m abo	ove			

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Primary	telephor	ne number		Second	lary telep	ohone number	
Country code	Area code	Number	Extension	Country code	Area code	Number	Extension
+44	7535	640528					
Primary	fax num	ber		Second	lary fax r	number	
Country	Area code	Number	Extension	Country code	Area code	Number	Extension
Primary	E-mail	james.wilsdonssh	rc@gmail.com				
Second	lary E-ma	il					

Web CV 2011/11/17 **Canadä**

Checked



Family name, Given name wilsdon, james

Current Address Use only if you are not affiliated with a university. (If you are affiliated with a university, the department's mailing awish to use another address, specify i Address.	department at a Canadian ddress will be used.) If you	Correspondence Addres Complete this section if you wish your of to an address other than your current a	corresponden	ce to be sent
Address Carlton House Terrace		Address		
6-9 Carlton House Terrace		_		
		- City/Municipality	Prov. / State	Postal/Zip code
Country UNITED KINGDOM	M	Country		
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Address		Address		
City/Municipality	Prov./ State	City/Municipality	Prov./ State	Postal/Zip code
Country		Country		
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Personal information will be stored in the Personal Information Bank for the appropriate program.



Conseil de recherches en sciences humaines du Canada

Do not photocopy this page.

Family name, Given name wilsdon, james

Research Expertise (optional)

The information provided in this section refers to your own research expertise, not to a research proposal. Filling out the following 4 sections is optional. This page will not be seen by selection committee members and external assessors. This section will be used for planning and evaluating programs, producing statistics, and selecting external assessors and committee members.

Areas of Research

Indicate and rank up to 3 areas of research that best correspond to your research interests as well as areas where your research interests would apply. Duplicate entries are not permitted.

Rank	Code	Area
1	244	Innovation, Industrial and Technological Development
2	320	Politics and government
3	360	Science and technology

Temporal Periods

If applicable, indicate up to 2 historical periods covered by your research interests.

From	То
Year BC AD	Year BC AD

Geographical Regions

If applicable, indicate and rank up to 3 geographical regions covered by your research interests. Duplicate entries are not permitted.

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Rank	Code	Region			
1					
2					
3					

Countries

If applicable, indicate and rank up to 5 countries covered by your research interests. Duplicate entries are not permitted.

Rank	Code	Countries	Prov./ State
1			
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3			
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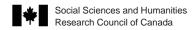
Conseil de recherches en sciences humaines du Canada

Curriculum Vitae

Family name, Given name

wilsdon, james

Language Pro	oficiency			
Read	Write Speak Comprehend aurally Other languages			
English X				
French				
Work Experient List the positions, and	e nce cademic and non-academic, you have held beginning with the current position and all previous	s positions in re	everse	
chronological order,	based on the start year.	,		
Current position			Start date (yyyy/mm)	
Full Professor			2011/11	
Org. code	Full organization name			
9121140	University of Sussex			
Department/Division	name			
Science and D	emocracy			
Position type	Tenured Non-tenure Employment status Full-time	O Part-tir	ne	
	Tenure-track Non-academic Non-salaried	Leave	of absence	
Position	·	Start date (yyyy/mm)	End date (yyyy/mm)	
Director		2008/1	2011/12	
Org. code	Full organization name			
1	The Royal Society			
Department/Division	n name			
Science Policy	Centre			
Position		Start date (yyyy/mm)	End date (yyyy/mm)	
Senior Research	ch Fellow	2006/1	2008/12	
Org. code	Full organization name			
9121122	Lancaster University			
Department/division	name			
Institute for Advanced Studies				
Position		Start date (yyyy/mm)	End date (yyyy/mm)	
Head		2004/1	2008/12	
Org. code	Full organization name			
1	Demos			
Department/Division	n name			
Science and In	novation			
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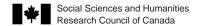


Family name, Given name
wilsdon, james

Work Experience	ence (cont'd)		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Head		2001/1	2004/12
Org. code	Full organization name		-
1	Demos		
Department/Division	name		
Strategy			
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Special Adviso	r	2000/1	2001/12
Org. code	Full organization name		
1	UK Sustainable Development Commission		
Department/Division	name		
UK Sustainable	e Development Commission		
Position		Start date (yyyy/mm)	End date
Senior Policy A	Advisor	1997/1	(yyyy/mm) 2001/12
Org. code	Full organization name		ı
1	Forum for the Future		
Department/Division	name		
Forum for the	Future		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
Org. code	Full organization name		
Department/Division	name		
Position		Start date (yyyy/mm)	End date (yyyy/mm)
		(ууууллл)	(уууу////////
Org. code	Full organization name	I	ı
Department/Division	name		

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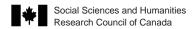


ĺ	Family name, Given name
	wilsdon, james

Academic Ba	ackground			
List up to 5 degrees	s, beginning with the highest degree first and all others in reverse chronologic	cal order, bas	sed on the start	date.
Degree type Doctorate	Degree name	Start date (yyyy/mm) 1998/01	Expected date (yyyy/mm)	Awarded date (yyyy/mm) 2004/12
Disc. code	Discipline		Did SSHRC su you to get this	
63499	Technology and Innovation Policy		Yes	● No
Org. code	Organization			
9121152	Middlesex University			
Country UNITED	KINGDOM			
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date
Master's		1996/01	(уууу/111111)	(yyyy/mm) 1997/12
Disc. code	Discipline	1//0/01	Did SSHRC su	pport enable
	'		you to get this	_
62699	Professional Studies		Yes	● No
Org. code	Organization			
9121152	Middlesex University			
Country UNITED	KINGDOM			
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)
BA Hon.		1992/01	(3333,)	1996/12
Disc. code	Discipline		Did SSHRC su you to get this	
55099	Philosophy and Theology		Yes	No
Org. code	Organization			
9121236	Oxford Brookes University			
Country UNITED	KINGDOM			
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)
Disc. code	Discipline		Did SSHRC su you to get this	pport enable degree?
			Yes	No
Org. code	Organization			_
Country				
Degree type	Degree name	Start date (yyyy/mm)	Expected date (yyyy/mm)	Awarded date (yyyy/mm)
Disc. code	Discipline		Did SSHRC su you to get this	degree?
			Yes	○ No
Org. code	Organization			
Country				

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Web CV



Family name, Given name
wilsdon, james

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List up to 6 licences, professional designations, awards and distinctions you have received and feel would be the most pertinent to the adjudication of your application. List them in reverse chronological order, based on the year awarded.

Category	Name	Source or Country	Duration (Months)	Value / Year awarded

Dagarah	Expertise
Research	Expertise

The information provided in this section refers to your own research expertise, not to a research proposal.

Keywords

List keywords that best describe your areas of research expertise. Separate keywords with a semicolon.

technology and innovation policy, governance, science policy

Disciplines

Indicate and rank up to 5 disciplines that best correspond to your research interests. Duplicate entries are not permitted.

Rank	Code	Discipline	If Other, specify
1	63400	Sociology	
2			
3			
4			
5			

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1.Research Contributions in the Last Six Years (2005-2011)

Refereed Contributions

Edited Books

R *Better Humans? The politics of human enhancement and life extension* (edited with P Miller), Demos, 2006.

Journal Articles

R 'Science moves East', *The World Today* Vol. 66, No.11, Chatham House, November 2010

R 'From Bio to Nano: Learning Lessons from the UK Agricultural Biotechnology Controversy' (with M Kearnes et al), *Science as Culture* Vol. 15, No. 4. 291-307, December 2006

Non-Refereed Contributions

Magazines

'Galileo: master of the universe', Financial Times, 15 October 2010

'Building a bright continent: can prioritizing science catalyze Africa's efforts to join the global economy?' *SEED magazine*, May/June 2008

'At last, real creative spark' - comment on the white paper 'Innovation Nation', *Times Higher Education*, 27 March 2008

'Islamic innovation is finally on a rising crescent', Financial Times, 19 October 2007

'China can lead the world in innovation', *China Daily*, 11 September 2007

'Innovation needs some fresh ideas' Times Higher Education, 13 July 2007

'Asian economies herald a new dawn of technological innovation' (with C Leadbeater), *The Times*, 17 January 2007

'Who would not seize the chance to live to 150?' Financial Times, February 2006

'The science lobby is getting it wrong on innovation', Financial Times, 3 November 2006

'Artificial intelligence' (review of Stefan Collini's Absent Minds), Financial Times, 4 March 2006

'A new geography for research collaboration' (with J Adams), Research Fortnight, 27 September 2006

'Am I Bovvered? A debate on public engagement' Research Fortnight, 12 October 2005

'Do not fear the rise of world-class science in Asia' (with C Leadbeater) *Financial Times*, 12 October 2005

'Scientists need to reconnect with the people', Financial Times, 5 September 2005

Review Essays

'Fine fellows' (a review of Bill Bryson's 'Seeing Further'), Financial Times, 1 February 2010

'Peer Review ' (a review of "The March of Unreason" by Dick Taverne), *Financial Times*, 16 April 2005 'Political science' (a review of Sheila Jasanoff's Designs on Nature) *Financial Times*, 10 September 2005

'The way to go' (a review of books on death and aging), *Financial Times*, 23 February 2008 'Medicine Men' (a review of 'Alternative Medicine? A history' by Roberta Bivins), *Financial Times*, 20 October 2007

Reports

A new golden age? The prospects for science and innovation in the Islamic world (with N Day and E Masood), The Royal Society, June 2010

The Scientific Century: securing our future prosperity (co-author), The Royal Society, March 2010 New frontiers in science diplomacy (co-author), The Royal Society, January 2010

The Disrupters: Lessons for low-carbon innovation from the new wave of environmental pioneers (with R Willis and M Webb), NESTA, July 2007

The Atlas of Ideas: How Asian innovation can benefit us all (with C Leadbeater), Demos, 2007 China: the next science superpower? (with J Keeley), Demos, 2007

The Asian Century: opportunities and challenges for the UK (with R Harrison), Advanced Institute of Management Research, 2006

The new geography of science: UK research and international collaboration (with J Adams), Evidence Ltd., 2006

Governing at the nanoscale: people, policies and emerging technologies (with M Kearnes and P Macnaghten), Demos, 2006

The Future of Technology Assessment (with M Rodemeyer & D Sarewitz) Woodrow Wilson Centre, Washington DC, 2005

The Public Value of Science: or how to ensure that science really matters (with B Wynne and J Stilgoe), Demos, 2005

2.Other Research Contributions

Website

'The man who wants to live forever' (with P Miller, a profile of Aubrey de Grey) *OpenDemocracy.net*, 3 February 2006

'Small talk: new ways of democratizing science and technology' *OpenDemocracy.net*, 27 September 2005

3. Five Most Significant Career Research Contributions

- 1. See-through Science: why public engagement needs to move upstream (with R Willis). Demos, 2004. The book is an important contribution because it shows how opening up the innovation process during the early stages of development ensures that science contributes to the common good. The book is written for an audience of policy makers, government officials and the public.
- 2. Digital Futures: living in a networked world (Editor). Earthscan, 2001. This book provides an important exploration of the social and environmental opportunities of the new economy by bringing together leading thinkers from the policy, business and academic world.
- 3. Governing at the nanoscale: people, policies and emerging technologies (with M Kearnes and P Macnaghten), Demos, 2006. This pamphlet outlines the findings from a two-year ESRC-funded project on Nanodialogues, which aimed to understand the social and scientific visions that are influencing nanotechnology research, and develop opportunities for 'upstream' dialogue between scientists and the wider public.
- 4. The Public Value of Science: or how to ensure that science really matters (with B Wynne and J Stilgoe). Demos, 2005. This pamphlet outlines why we need to find new ways of talking about and building 'the public value of science'.
- 5. China: the next science superpower? (with J Keeley). Demos, 2007. The pamphlet considers the potential future role and relationship that China's scientific program will have with other countries.
- 4. Career Interruptions and Special Circumstances: N/A
- 5. Contributions to Training in the Last Five Years: N/A

Dr James Wilsdon

With fifteen years of experience at the intersection between academia, government and public policy, I am an expert on science and innovation policy in the UK and internationally. Through my work at the Royal Society, the UK's national academy of science, and at Demos, an influential think tank, I have built strong networks with scientists, innovators and policymakers around the world. I am an accomplished project manager, team leader and fundraiser, with a track record of creative, entrepreneurial and high-impact research.

- 1. Director, Science Policy Centre, The Royal Society. I joined the Royal Society in September 2008 as the founding Director of its Science Policy Centre. My responsibilities in that role included policy direction, leadership, and budgeting roles (among other things). The Science Policy Centre is mandated with championing the role of science and innovation in creating economic prosperity, quality of life, and sustainability.
- 2. Head of Science and Innovation, Demos. While at Demos, I directed *The Atlas of Ideas* project, a three-year FCO-backed study of the prospects for science and innovation in Asia and Latin America, and co-authored several influential reports.
- 3. Special Adviser, UK Sustainable Development Commission (SDC). The SDC is the UK Government's independent advisor on sustainable development. As a special adviser, I provided relevant expertise to the commission.
- 4. Senior Policy Adviser, Forum for the Future. As a UK non-profit organization, Forum for the Future's mission is to promote sustainable development through partnership activities across businesses and communities.
- 5. Governing at the nanoscale: people, policies and emerging technologies (with M Kearnes and P Macnaghten), Demos, 2006. This pamphlet presents the findings of a two-year ESRC-funded project on Nanodialogues, which aimed to understand the social and scientific visions that are influencing nanotechnology research, and develop opportunities for upstream dialogue between scientists and the wider public.
- 6. See-through Science: why public engagement needs to move upstream (with R Willis). Demos, 2004. The audience for the book policy makers, government officials, and the public is presented with arguments for why public engagement with science should move upstream. It shows how opening up the innovation process during the early stages of development can ensure that science contributes to the common good.