

RURAL ECONOMY

2002 ANNUAL REPORT



Department of Rural Economy
Faculty of Agriculture, Forestry,
and Home Economics
University of Alberta
Edmonton, Alberta, Canada

DEPARTMENT OF RURAL ECONOMY

2002 ANNUAL REPORT

Department of Rural Economy
Faculty of Agriculture, Forestry and Home Economics
University of Alberta
Edmonton, Alberta
T6G 2H1
Phone: (780) 492-4225
Fax: (780) 492-0268
www.re.ualberta.ca

May 2003

Table of Contents

Rural Economy in 2002: Taking Stock and Planning for the Future	1
Rural Economy Staff	2
Awards to Graduate Students in 2002	4
Awards to Staff.....	5
Professional Offices Held by Staff in 2002	5
Staff on Leave in 2002	5
Undergraduate Activities	5
Graduate Students Completing Programs in 2002, Thesis Topics and Supervisors	6
Graduate Students Commencing and Continuing Programs Through 2002 and Their Degree.....	7
Visiting Professors/Scholars	8
Visiting Speakers and their Topics	8
Overview of the Cooperative Program in Agricultural Marketing and Business.....	8
A Major Academic Activity: Rural Economy Participation in Sustainable Forest Management - The Network of Centres of Excellence.....	9
International Projects	10
Rural Economy Facilities	11
Publications Reported in 2002	11
Refereed Publications (Journal Articles, Books and Chapters in Books).....	11
Oral Presentations and Posters	13
Proceedings, Abstracts and Other Items.....	17
Staff Papers and Research Project Reports.....	19
Research Projects Completed January 1 - December 31, 2002.....	20
Research in Progress as of December 31, 2002	22

Rural Economy in 2002: Taking Stock and Planning for the Future

The mission of the Department of Rural Economy of the University of Alberta is to pursue excellence in the discovery, application and dissemination of knowledge of economic, sociological, and business dimensions of agriculture, food, forestry and the environment. A related focus of Rural Economy's research mission is the pursuit of public involvement to ensure relevance and effectiveness in the discovery, application and dissemination of knowledge in our areas of focus.

The Department of Rural Economy had a productive and interesting year in 2002. Michele Veeman, long standing Department Chair (1992-2002) stepped down, looking forward to refocusing on her extensive research on genomics and organizing the upcoming International Agricultural Economics Association meetings. During her tenure as Chair the Department and University faced many challenging times. The fact that Michele leaves her time as Chair with the Department in a strong financial position, with a strong complement of staff, with a large and successful graduate program is due, in large part, to her significant efforts. We have benefited considerably from her focus on the welfare of the Department.

The Sustainable Forest Management Network continues to provide opportunities for many of our staff to undertake significant research projects. However the members of the Department are also pursuing research opportunities in health areas, in business strategy and aspects of food safety and finance. Through the activities of staff and graduate students, the Department is a hive of interesting research endeavours (and coffee conversation!).

The Department continues to maintain significant teaching loads in the Faculty degrees of Environment and Conservation Science, Agriculture and Forestry. The staff are constantly improving their teaching technologies and student evaluations are uniformly good across the Department.

2002 brought the resurrection of a Department Newsletter, which has been delivered to many organizations and people across the province and world. Once we start writing it down every three or four months, it is exciting to see how productive our staff and students actually are.

Yet again the Department owes a great debt to our many donors both internal and external. Our Reading Room and Computer Laboratory both have benefited from bequests in the past year. Our graduate students also benefit from current gifts and scholarships donated by our friends in the past (Murray Hawkins Scholarship, for example).

All in all we had a great year and look forward to 2003!

Ellen Goddard, Acting Chair

Rural Economy Staff

Academic Staff

Wiktor L. Adamowicz, PhD (Minnesota); Professor; Environmental Economics, Econometrics, Forest Economics.

Peter C. Boxall, PhD (Alberta); Associate Professor; Environmental Economics, Resource & Forest Economics.

Kevin Z. Chen, PhD (Guelph); Associate Professor; Food Marketing, Policy. *Graduate Coordinator.*

James H. Copeland, MSc (Alberta); Faculty Service Officer; Computing and Statistical Analysis.

Debra J. Davidson, PhD (Wisconsin-Madison); Assistant Professor; The State and Environmental Policy, Globalization, First Nations Issues.

Ellen W. Goddard, PhD (La Trobe, Australia); Professor, Acting Chair (as of July 1, 2002) and Cooperative Chair; Agricultural Marketing and Business.

Grant K. Hauer, PhD (Minnesota); Assistant Professor; Resources & Environmental Economics, Trade.

Scott R. Jeffrey, PhD (Minnesota); Associate Professor; Agricultural Business Management, Production Economics.

Naomi T. Krogman, PhD (Colorado State); Assistant Professor; Sociology of Natural Resources, International Development, Gender.

Mel L. Lerohl, PhD (Michigan State); Professor; Agricultural Policy and Trade.

Martin K. Luckert, PhD (British Columbia); Professor; Forest Economics, Natural Resource Economics. *Graduate Coordinator.*

Desmond W. Ng, PhD (Illinois); Assistant Professor; Agribusiness Management & Strategy, Business Strategy.

Jim R. Unterschultz, PhD (Alberta); Associate Professor; Agribusiness, Finance and Marketing.

Michele M. Veeman, PhD (California at Berkeley); Professor and Chair (until June 30, 2002); Markets, Policy, Trade.

Terry S. Veeman, PhD (California at Berkeley); Professor; International Development, Resource and Environmental Economics. Joint appointment with Economics.

Associated Academic Staff

Leonard P. Apedaile, PhD (Iowa State); Professor Emeritus; Agricultural Policy, Rural Development.

Len Bauer, PhD (Oregon State); Professor Emeritus; Agricultural Management, Production Economics.

Tom M. Beckley, PhD (Wisconsin); Adjunct Professor; Forest Sociology.

Dhara S. Gill, PhD (Cornell); Professor Emeritus; Rural Sociology, Agricultural Extension.

Murray H. Hawkins, PhD (Ohio State); Professor Emeritus; Marketing, Business Management.

Leslie M. Johnson, PhD (Alberta); Adjunct Professor; Aboriginal Resource Management and Environmental Anthropology.

Bonnie L. McFarlane, PhD (Alberta); Adjunct Professor; Forest Social Science.

Eloise C. Murray, PhD (Pennsylvania State); Professor Emeritus; Gender Issues, Extension, Int'l. Development.

T. Alf Petersen, PhD (Washington State); Professor Emeritus; Farm Management, Extension.

William E. Phillips, PhD (California at Berkeley); Professor Emeritus; Forest Economics, Resource Economics.

Brian R. Radke, PhD (Michigan State); Adjunct Professor; Production Economics; Agribusiness Management.

Joseph J. Richter, Dr. Rer. Pol. (Graz, Austria); Professor Emeritus; Marketing, Trade.

Wolfgang M. Schultz, PhD (Oklahoma State); Professor Emeritus; Production and Natural Resource Economics.

Richard C. Stedman, PhD (Wisconsin); Adjunct Professor; Sociology and Rural Sociology.

Frank J. Tough, PhD (York); Adjunct Professor; Aboriginal Natural Resource Management.

Ed W. Tyrchniewicz, PhD (Purdue); Professor Emeritus; Policy, Transportation, International Development.

William A. White, PhD (Simon Fraser); Adjunct Professor (Canadian Forest Service); Forest Economics.

Support Staff

Judy Boucher, Administrative Assistant
 Liz Bruce, Student Services Coordinator
 Randy Page, LAN Administrator
 Marilou Stegmeier, Department Administrator
 Dawn Zrobok, Reading Room Supervisor

Sessional Lecturers and Research Fellows

Bob Burden, Sessional Lecturer
 Colette Fluett, Sessional Lecturer
 Anne Huennemeyer, Post Doctoral Research Fellow
 Marian Weber, Post Doctoral Research Fellow
 Arlene Kwasniak, Sessional Lecturer
 Dale Kaliel, Sessional Lecturer
 Brian Radke, Sessional Lecturer
 Yaoqi Zhang, Post Doctoral Research Fellow
 Jeannine Flores Bastidas, Research Associate

Awards to Graduate Students in 2002

Name	Award	Sponsor
Kenneth Caine	<ul style="list-style-type: none"> • Graduate Scholarship • Graduate Research Award • Research Assistantship Grant 	<ul style="list-style-type: none"> • Al Brennan Memorial • Alberta ACADRE Network • Aurora Research Institute
Colette Fluet	<ul style="list-style-type: none"> • Graduate Scholarship 	<ul style="list-style-type: none"> • Province of Alberta
Mohamud Habiba	<ul style="list-style-type: none"> • Graduate Scholarship 	<ul style="list-style-type: none"> • Canadian Commonwealth Scholarship & Fellowship Program
Getu Hailu	<ul style="list-style-type: none"> • FS Chia PhD Scholarship • Lamaire Co-operation Studies Award 	<ul style="list-style-type: none"> • University of Alberta • Canadian Cooperative Association
Joffre Hotz	<ul style="list-style-type: none"> • Graduate Fellowship 	<ul style="list-style-type: none"> • Canadian Wheat Board
Wuyang Hu	<ul style="list-style-type: none"> • FS CHia PhD Scholarship 	<ul style="list-style-type: none"> • University of Alberta
Renee Kim	<ul style="list-style-type: none"> • Best PhD Thesis Award (runner-up) 	<ul style="list-style-type: none"> • Canadian Agricultural Economics Society
Ross Mitchell	<ul style="list-style-type: none"> • Graduate Fellowship • Doctoral Fellowship • Professional Development Grant • Murray and Pauline Hawkins Graduate Research Fellowship • J. Gordin Kaplan Graduate Student Award • Outstanding Graduate Student Paper • PRA Doctoral Fellowship • Doctoral Dissertation Award • Walter H. Johns Graduate Fellowship • Doctoral Fellowship 	<ul style="list-style-type: none"> • Province of Alberta • Social Sciences and Humanities Resarch Council of Canada • Graduate Students' Association, U of A • Department of Rural Economy, U of A • Faculty of Graduate Studies and Research • Rural Sociological Society • Organization of Americ an States • International Development Research Ctr. • Faculty of Graduate Studies and Research • Social Sciences and Humanities Research Council of Canada
Sibongile Moyo	<ul style="list-style-type: none"> • Outstanding Master's Thesis Award Honorable Mention 	<ul style="list-style-type: none"> • Western Agricultural Economics Assoc.
Gunnilla Nilsson	<ul style="list-style-type: none"> • Graduate Fellowship • Industrial Postgraduate Scholarship 	<ul style="list-style-type: none"> • Walter H. Johns • NSERC
Marcella Ochoa	<ul style="list-style-type: none"> • Graduate Scholarship 	<ul style="list-style-type: none"> • Canfor Corporation
Christopher Panter	<ul style="list-style-type: none"> • Graduate Scholarship 	<ul style="list-style-type: none"> • John Proskie Memorial
Jason Politylo	<ul style="list-style-type: none"> • Alberta Learning Graduate Scholarship 	<ul style="list-style-type: none"> • Province of Alberta
Xiaochao Qian	<ul style="list-style-type: none"> • Masters Scholarship 	<ul style="list-style-type: none"> • Alberta Agricultural Economics Assoc.
William Rutakumwa	<ul style="list-style-type: none"> • Graduate Scholarship 	<ul style="list-style-type: none"> • Friends of the Faculty of Graduate Studies and Research
Benjamin Shank	<ul style="list-style-type: none"> • Graduate Scholarship • Graduate Scholarship • Graduate Scholarship 	<ul style="list-style-type: none"> • Douglas McRorie Memorial • BJ McBain • John Proskie Memorial
Elsbeth White	<ul style="list-style-type: none"> • Travis Manning Book Prize 	<ul style="list-style-type: none"> • Department of Rural Economy

Awards to Staff

Debra Davidson, Faculty of Agriculture, Forestry and Home Economics “Teaching Wall of Fame 2002”.

Ellen Goddard, Faculty of Agriculture, Forestry and Home Economics “Teaching Wall of Fame 2002”.

Scott R. Jeffrey, Faculty of Agriculture, Forestry and Home Economics “Teaching Wall of Fame 2002.

Naomi T. Krogman, Honorable Mention for Poster Presentation. The Rural Sociological Society. 2002.

M. K. Luckert, Faculty of Agriculture, Forestry and Home Economics “Teaching Wall of Fame 2002.

Michele Veeman. Selected by the Committee of Women in Agricultural Economics (a group affiliated with the American Association of Agricultural Economists), to be featured as “a woman you should know” which is an annual feature of the summer newsletter of the CWAE.

Professional Offices Held by Staff in 2002

Naomi T. Krogman, Associate Editor, Society and Natural Resources. 1999-2002. Associate Editor, International Journal of Qualitative Methodology. 2001-2003.

M.K. Luckert, Member of Adaptive Management Land Use Advisory Group. Group Leader, Policy, Sustainable Forest Management Network.

Desmond Ng. Appointed committee member for the Value Chain Action Team of the Agriculture and Food Council. Appointed committee member for the Alberta Agriculture Economics Association.

James R. Unterschultz. Director with Western Agricultural Economics Association.

Michele Veeman. Member, Advisory Committee on Agricultural Statistics for Statistics Canada. Member, Internal Trade Dispute Settlement Panelist Roster (for the Province of Alberta). Member, Board of Trustees of the National Centre for Food and Agricultural Policy (Washington) through 2002. Member, Program Committee and Co-Chair for the contributed papers process for the 2003 Durban Meeting of the International Association of Agricultural Economists.

Staff on Leave in 2002

Wiktor Adamowicz, July 1, 2001 to June 30, 2002 (Resources for the Future, Washington, DC).

Jim Unterschultz, July 1, 2002 to June 30, 2003 (University of Saskatchewan, Saskatoon).

Undergraduate Activities

The Department of Rural Economy, Faculty of Agriculture, Forestry and Home Economics is proud of our students who participated in the Undergraduate Student Competitions at the American Agricultural Economics Association Meetings held in Long Beach, California, July 28-31, 2002. The students were Mike Rausch, BSc Environmental Conservation, Chantelle l'Hoir, BCom Co-operatives, Michelle Spence, BSc Environmental Conservation, Jason Walker, BSc Agriculture and Adair Rigney, BSc Environmental Conservation. All five students presented papers in the Undergraduate Student Paper Competition. Michelle won first place with her paper entitled: "Effect of Age on the Probability of Participation in Wildlife Related Activities: A Birth Year Cohort Study." Chantelle placed third with her paper entitled: "Marketing Organic Grain in Alberta." Mike, Chantelle and Michelle also competed against teams from all over North America in the Academic Bowl. Fun was had by all!

On October 27-30, 2002, three students from the Department of Rural Economy at the University of Alberta traveled to Miami, Florida, to take part in the annual case study competition of the Food Distribution Research Society. The students were Ryan Furtas, BSc Agriculture, Kyla Rice, BSc Environment Conservation Sciences, and Steven Tannas, BSc Agriculture. They were accompanied by Getu Hailu, a PhD candidate in Agricultural Economics, and Professor Mel Lerohl. Teams from Universities as far distant as California and Michigan were represented at the competition, and the team from the University of Alberta was the first Canadian team to take part in the competition.

Students presented their solution to a case study based on how best to meet the easy-to-prepare food needs of customers in a mid-size city in North America. Case study results were presented twice to different groups of adjudicators, and comments were made by adjudicators about the ability of students to suggest remedies to the case study problem, as well as about the professionalism of the presentations. Team members from Rural Economy got high marks from adjudicators for their ability to look for new solutions to the case study problem, and for their ability to think on their feet. All agreed that the competition was a valuable and fun part of their fall term studies!

Graduate Students Completing Programs in 2002, Thesis Topics and Supervisors

Bouphasiri, Chanchoura. A Preliminary Assessment of the Agricultural Marketing System in Nagaland, India. M.Sc. (T. Veeman)

Chami, Cyril. Sustainable Tourism Development: A Comparison Between Tanzania and Kenya, Ph.D. (Adamowicz)

Jabs, Jennifer. Effects of Regulatory Mechanisms on Anglers and Walleye Populations in Northern Alberta Lakes. M.Sc. (Adamowicz)

Karamagi, Innocent. Examining Technical and Economic Efficiency: Empirical Applications Using Panel Data from Alberta Dairy Farmers. Ph.D. (Jeffrey)

Kherani, Shaffin. Labelling of GMOs: A Consumer Perspective. MBA/M.Ag. (Lerohl)

Larsen, Roy. A Regional Analysis of Profitability, Input Demand and Output Supply in the Pulp and Paper Section. M.Sc. (Hauer/Boxall)

M^cCann, Diane. Consumers' Preferences Regarding Agricultural Biotechnology. M.Sc. (M. Veeman/ Boxall)

- Miller, Jamie. Examination of the On-Ranch Economics of Riparian Grazing Management. M.Sc.
(Unterschultz/Boxall)
- Murray, Gordon. An Exploration of Non-Timber Forest Potential in a Sub-Arctic Aboriginal Setting. M.Sc.
(Boxall)
- Nanang, David. Optimization Based Forest Planning Tools for Sustainable Forest Management. Ph.D.
(Hauer/Adamowicz)
- Volpi, Ronald. Estimation of Differential Costs of an Identity Preservation (I) System for Beef Production in Alberta. MBA/M.Ag. (Lerohl)

Graduate Students Commencing and Continuing Programs Through 2002 and Their Degree

- Allen, Trena, MSc in Rural Sociology
Caine, Kenneth, MSc in Rural Sociology
Duku-Kaakyire, Armstrong, MSc in Agricultural and Resource Economics
Fluet, Colette, MSc in Rural Sociology
Gao, Ge, MSc in Agricultural and Resource Economics
Getu, Hailu, PhD in Agricultural and Resource Economics
Habiba, Mohamud, MAg in Rural Sociology
Habteyonas, Michael, PhD in Agricultural and Resource Economics
Heckbert, Scott, MSc in Agricultural and Resource Economics
Hotz, Joffre, MSc in Agricultural and Resource Economics
Hu, Wuyang, PhD in Agricultural and Resource Economics
Hunt, Tanya, MSc in Forest Economics
Huygen, Israel, MSc in Agricultural and Resource Economics
Javier, Esmyra, PhD in Agricultural and Resource Economics
Jonasi, Lorraine, PhD in Agricultural and Resource Economics
Liu, Xiaozhan, PhD in Agricultural and Resource Economics
Lomeli, Jose, MSc in Agricultural and Resource Economics
MacKendrick, Norah, MSc in Rural Sociology
Mackenzie, Heather, MBA/MAg
Mendez, Manzanilla, Jorge, MSc in Agricultural and Resource Economics
Miao, Xiaoping, MSc in Agricultural and Resource Economics
Mitchell, Ross, PhD in Rural Sociology
Mittlesteadt, Nancy, MSc in Agricultural and Resource Economics
Moon, Amanda, MSc in Agricultural and Resource Economics
Moyo, Sibongile, PhD in Agricultural and Resource Economics
Nam, Kang-Weon, MSc in Agricultural and Resource Economics
Neupane, Anish, MSc in Agricultural and Resource Economics
Nilsson, Gunnilla, MSc in Forest Economics
Ochoa, Marcela, MSc in Forest Economics
Panter, Chris, MSc in Agricultural and Resource Economics
Politylo, Jason, MSc in Agricultural and Resource Economics
Qian, Xiaochao, MSc in Agricultural and Resource Economics
Rittmaster, Robyn, MSc in Agricultural and Resource Economics
Rutakumwa, William, PhD in Rural Sociology
Shank, Benjamin, MSc in Agricultural and Resource Economics
Uto, Kinga, MSc in Agricultural and Resource Economics
Varghese, Jeji, PhD in Rural Sociology
Wang, Xin, MSc in Agricultural and Resource Economics
Wiredu, Emmanuel, PhD in Agricultural and Resource Economics

Zindi, Christopher, PhD in Agricultural and Resource Economics

Visiting Professors/Scholars

Zhong, Wemin, Foreign Economics Division of Xinjiang Provincial Financial Bureau, P.R. China

Visiting Speakers and their Topics

Cotterill, R.W., Professor of Agricultural Economics and Director of the Food Marketing Policy Center at the University of Connecticut. “Structural Models of Price Transmission in Imperfectly Competitive Market Channels”. Sponsored by Alberta Agricultural Economics Cooperative Program in Agricultural Marketing and Business. March 7, 2002.

Fearne, A., Senior Lecturer in Food Industry Management, Imperial College at Wye, University of London. “Cooperating to Compete: Vertical Coordination in a Global Food Industry”. Sponsored by the Faculty of Agriculture, Forestry and Home Economics and the Department of Rural Economy. March 20, 2002.

Place, F., Economist, International Centre for Research in Agroforestry, Nairobi. “Tree Resources Across African Landscapes: Understanding Patterns at Meso and Micro Levels”. July 8, 2002.

Kristjanson, P., Agricultural Economist, International Livestock Research Institute, Nairobi. “Assessing Research Impacts and Setting Research Priorities: Some International Development Examples”. July 9, 2002.

Zhang, Y., Post Doctoral Fellow, Department of Rural Economy, University of Alberta. “Forest Policy and Institutions in Response to Changing Paradigms: Transaction Costs and Property Rights Approach. July 24, 2002.

Cash, S., PhD Candidate, Agricultural and Resource Economics and Policy, University of California, Berkeley. “Health Tradeoffs in Pesticide Regulation”. December 17, 2002.

Overview of the Cooperative Program in Agricultural Marketing and Business

The Cooperative Program in Agricultural Marketing and Business was created by industry funding in the late 1980's. The broad purposes of the program are to conduct research, extension and teaching in the areas of agricultural marketing and business. The focus is on issues related to group activities whether these be for cooperatives or other organizations.

The program funding is largely used to fund graduate student research. Currently there are six Masters students and one Phd student being funded through the program. Their research topics are :

- The Impact of Foreign Direct Investment on Canadian Agribusiness
- Potential for Increased Poultry exports from Canada
- Should Environmental Cooperatives be used in Canada
- Principal-Agent Problems and Capital Constraints in Canadian Agribusiness
- Supply and Marketing Co-operatives
- Consumer Demand for Chicken by Type of Product
- Games in Branding and New Product Development in the Canadian Poultry

Processing Industry
Factors affecting the Demand for Beef in Canada

A new project on the effects of deregulation on rural electricity cooperatives in Alberta has been established in collaboration with Professor Becky Richards, University of Montana.

The program also encourages various extension activities. This year the highlight of the program was the Annual Symposium. Symposium 2002 “*Structural Change in the Agribusiness Sector*” was held on June 5, 2002 at the University of Alberta. Ninety-two people representing industry, government and academia registered for the symposium. A new feature at this year’s symposium was a poster display of 16 posters highlighting current research within the Department of Rural Economy.

Dr. Ray Bollman, Statistics Canada led off Symposium 2002 with a look at “Structural Changes in the Rural/Agricultural Sector in Canada”. “The Diffusion of Innovative Organizational Structures in Saskatchewan’s New Agriculture” was Roger Herman’s topic. Herman from the Center for Study of Cooperatives at the University of Saskatchewan used 3 Saskatchewan based case studies to examine how economies of scale, path dependence, and the presence of social cohesion within the community impacted on the choice of organizational structure chosen to pursue these value added activities. The substantial decline in cash fed cattle trade as a result of progressive producers attempts to more effectively meet consumer demand through marketing agreements, alliances, and other non-cash arrangements was the subject of Dr. Ted Schroeder’s (Kansas State University) presentation entitled “Structural Change in the North American Beef Industry”. Drs. Goddard, Lerohl, and Boxall of the Department of Rural Economy combined to take a new approach -- public choice theory -- at examining the implications for a cooperative of satisfying the twin objectives of economic welfare and political lobbying on the part of the farmer members and whether this objective function contributes to some of the current problems faced by cooperatives. The day concluded with Mike Trant, Statistics Canada presenting the results of a look at “Structural Changes in the Canadian Retail Food Industry”. Trant’s conclusion was that large food retailers are more profitable than the rest of the retail sector and than the economy in general -- 12% rate of return vs. 7% vs. 7.3%.

A Major Academic Activity: Rural Economy Participation in Sustainable Forest Management - The Network of Centres of Excellence

The Sustainable Forest Management Network, one of Canada’s Networks of Centres of Excellence, is centred at the University of Alberta. This is a national research network focused on management of Canada’s forests, involving university, industry, Aboriginal and government collaboration in research. The Faculty of Agriculture, Forestry and Home Economics plays a major role in this NCE. Several faculty members are principal investigators in the Network. Dr. Vic Adamowicz (Rural Economy) returned to the position of Program Leader of the Network after returning from his study leave from July 1 2001. Dr. Terry Veeman (Economics/Rural Economy) was Interim Leader of the Network from July 2001 through June 2002. In addition several Rural Economy faculty members have research projects and graduate students funded through the network.

The Sustainable Forest Management NCE is core funded by two federal granting councils: The Natural Sciences and Engineering Research Council (NSERC) and the Social Sciences and Humanities Research Council (SSHRC), in collaboration with Industry Canada. The Network is also supported by several industry partners, provincial governments, conservation organizations and First Nations partners. The Network’s annual budget for research and networking is now over \$7 million. The Network has been extended with expanded federal funding for another four years in its second seven-year cycle.

The Network examines new approaches to forest management that can maintain the nation’s forest

based-economy while not compromising biodiversity and ecological goals. The Network has two major research goals, developing innovative strategies for forest management and constructing indicators and approaches to monitor progress towards sustainability. Rural Economy staff contribute significantly to the social science components of the Network including the Policy and Institutions area and Integrated Resource Management area (under innovative strategies) and Social and Economic Indicators of Sustainability and Sustainable Aboriginal Communities themes within the indicators and monitoring area.

International Projects

The Department of Rural Economy has been active in a number of international projects. In 2002, the project *Agroforestry: Southern Africa*, funded by the Canadian International Development Agency and numerous other donors, was brought to a close. This project funded the graduate studies of 6 Zimbabwean students in the Department of Rural Economy (4 MScs and 2 PhDs) and trained over 200 professionals in Southern Africa. It created numerous curricula materials that are being used in Zimbabwe and internationally, and supported numerous research projects which generated results that were presented to policy makers and published in international journals. It played a major role in internationalizing the department, facilitating 40 faculty and student exchanges between the University of Alberta and the University of Zimbabwe. It also provided expertise and interest to pursue further international projects.

A number of Faculty in the Department have also been involved in building collaborative research relationships with scholars in Mexico to develop a network of researchers for participation in a project related to forest management in Mexico. One research project on community forestry management and democracy in Oaxaca, Mexico, has already been conducted by one Faculty member and one Doctoral student in rural sociology in 2002-2003, funded by SSHRC, Organization of American States, and IDRC.

Two further international projects of Rural Economy continue. One of these, funded by IDRC, is the *Community Land Management* (Zimbabwe) project. This is providing for research by the University of Zimbabwe and the University of Alberta (through Rural Economy) on how communal property rights affect land management in Zimbabwe. The project is providing funding for three PhD students, one of whom is based at the University of Alberta. The second currently ongoing project is a linkage agreement between Rural Economy and the Kenya-Based World Agroforestry Centre which focuses on Valuation of Environmental Services of Agroforestry Systems. This project has facilitated workshops, faculty exchanges, and student research.

There are also other international initiatives underway. Rural Economy is currently involved in ongoing research and project planning with the Centre for International Forestry Research (CIFOR), where we hope to plug more Rural Economy students and staff into upcoming CIFOR research. Furthermore, we are in the process of developing further potential projects with CIFOR and the World Agroforestry Centre. We have also begun inquiries into potential future collaboration on projects in cooperation with the Global Health Committee in the faculty of Medicine and Dentistry at the University of Alberta. One planning grant, currently underway, is designed to identify rural conditions associated with HIV infection prevention in rural southern Mongolia, which is funded by the Center for International Health Research (CIHR).

Rural Economy Facilities

The Rural Economy Reading Room continues to be a valuable resource for the department and is well-used by students. The scope of the collection includes, in addition to the traditional areas of agricultural and resource economics, forest economics and rural sociology, related material on agroforestry, environmental economics, and resource sociology.

The Rural Economy Graduate Computing Laboratory was expanded in 2002 to a 12 work station research facility. This focuses on specialized software used in the disciplines of Agricultural and Resource Economics, Forest Economics and Rural Sociology. Debra Davidson and Peter Boxall were successful in obtaining capital funding for the development of a core facility for spatial applications of social ecology funded by Canadian Foundation for Innovation. This funding will enable further expansion of the scope and capacity of this facility.

Publications Reported in 2002

Refereed Publications (Journal Articles, Books and Chapters in Books)

- Beckley, T. and N. Krogman. 2002. "Social Consequences of Employee/Management Buyouts: Two Canadian Examples from the Forest Sector." *Rural Sociology*, 67(2):183-207.
- Boxall, P.C., J. Englin and W. Adamowicz. 2002. "The Contribution of Aboriginal Rock Paintings to Wilderness Recreation Value in North America." In: S. Navrud and R. Ready, Editors. *Valuing Cultural Heritage*. Edward Elgar, Northhampton, Mass. p.105-117.
- Campbell, B.M. and M.K. Luckert. 2002. Editors. *Uncovering the Hidden Harvest: Valuation Methods for Forest and Woodland Resources*. Earthscan: London. 262 p.
- Campbell, B.M. and M.K. Luckert. 2002. "Towards Understanding the Role of Forests in Rural Livelihoods." In: Campbell, B.M. and M.K. Luckert, Editors. *Uncovering the Hidden Harvest: Valuation Methods for Forest and Woodland Resources*. Earthscan: London. p. 1-16.
- Campbell, B.M., S. Jeffrey, W. Kozanayi, M. Luckert, M. Mutamba and C. Zindi. 2002. "Household Livelihoods in Semi-Arid Regions: Options and Constraints." *Center for International Forestry Research*. Bogor, p. 153.
- Chen, K. Z., M. Ali., M. Veeman, J. Unterschultz, and T. Le. 2002. "Relative Importance Rankings for Pork Attributes by Asian-Origin Consumers in California: Applying an Ordered Probit Model to a Choice-based Sample." *Journal of Agricultural and Applied Economics*, 34, 1 (April):67-79.
- Davidson, D.J. and R. Mitchell. 2002. "NAFTA in the New Millennium: Environmental Challenges to International Trade." In: T. Chambers and P. Smith, Editors. *NAFTA in the New Millennium*. Co-Published by University of Alberta Press and the Center for U.S.-Mexican Studies, UCSD. p. 265-286.
- Haener, M, D. Dosman, W. Adamowicz and P. Boxall. 2001. "Can Stated Preference Methods be Used to Value Attributes of Subsistence Hunting by Aboriginal Peoples: A Case Study in Northern Saskatchewan." *American Journal of Agricultural Economics*, 83(5):1334-1340.
- Krogman, N. and T. Beckley. 2002. "Employee and Management Buy-Outs of Forest Product Mills: Does this

- Constitute Community Forestry?" *Society and Natural Resources*, 15(2):109-128.
- Luckert, M.K. 2002. "Inquiries into the Role of Economics in Canadian Forestry." *Forestry Chronicle*, 78(4):499-504.
- Luckert, M.K. and B.M. Campbell. 2002. "Expanding our Conceptual and Methodological Understanding of the Role of Trees and Forests in Rural Livelihoods." In: Campbell, B.M. and M.K. Luckert, Editors. *Uncovering the Hidden Harvest: Valuation Methods for Forest and Woodland Resources*. Earthscan: London. p. 228-238.
- Murphy, P.J. and M.K. Luckert. 2002. "The Evolution of Forest Management Agreements on the Weldwood Hinton Forest." Prepared for the Foothills Model Forest. Hinton, Alberta. 255 p.
- Skrpichenko, A. and K. Z. Chen. 2002. "Estimation of an Effectively Globally Regular Demand System: An Application to United States Meat Consumption." *Empirical Economics*, 27 (4):601-606.
- Swait, J. and W. Adamowicz. 2001. "Choice Environment, Market Complexity and Consumer Behaviour: A Theoretical and Empirical Approach for Incorporating Decision Complexity in Models of Consumer Choice." *Organizational Behaviour and Human Decision Processes*, 86(2):141-167.
- Swait, J., Adamowicz, W., Hanemann, M., Diederich, A., Krosnick, J., Layton, D., Provencher, W., Schkade, D., Tourangeau, R. 2002. "Context Dependence and Aggregation in Disaggregate Choice Analysis." *Marketing Letters*, 13(3):193-203.
- Veeman, M. 2001 "Understanding Local and Regional Markets for Forest Products." In: B.M. Campbell, and M.K. Luckert, editors. *Uncovering the Hidden Harvest: Valuation Methods for Forest and Woodland Resources*. London: Earthscan. P. 66-102.
- Veeman, M. 2002. "Marketing Boards: An International Overview". Article in Encyclopedia of Life Support Systems [EOLSS], theme section Management of Agricultural, Forestry, Fisheries Enterprises. Oxford, UK. [<http://www.eols.net>]. 15 p.
- Veeman, M., T. Veeman, R. Hoskins. 2002. "NAFTA and Agriculture: Challenges for Trade and Policy." In: E.J. Chambers and P.H. Smith, Editors. *NAFTA in the New Millennium*. Jointly published by the Center for U.S. - Mexican Studies at the University of California, San Diego and the University of Alberta. p. 305-343.
- Veeman, T.S. and M.K. Luckert. 2002. "Decision Making Frameworks for Considering Resource Values: Procedures, Perils and Promise." In: Campbell, B.M. and M.K. Luckert, Editors. *Uncovering the Hidden Harvest: Valuation Methods for Forest and Woodland Resources*. Earthscan: London. p. 141-167.
- Weber, M. and W. Adamowicz. 2002. "Tradable Land Use Rights for Cumulative Environmental Effects Management." *Canadian Public Policy*, 28(4): 581-595.
- Weersink, A., S. Jeffrey and D. Pannell. 2002. "Farm-Level Modeling for Bigger Issues." *Review of Agricultural Economics*, 24:123-40.

Oral Presentations and Posters

- Adamowicz, W. "Sustaining Canada's Forests." Public Panel Presentation at the Sustainable Forest Management Network Annual Conference. Edmonton, Alberta. November 13-15, 2002.
- Adamowicz, W. "Preference Construction and Complexity in the Valuation of Landscape Attributes." Keynote invited paper presented at Pricing Environmental Services in Agriculture. Giessen University, Germany. October 17-18, 2002.
- Adamowicz, W. "An Introduction to Attribute Based Stated Preference Methods." Invited presentation at the American Agricultural Economics Association annual meetings, Agribusiness Management Pre-Conference Workshop. Long Beach, CA. July, 2002.
- Adamowicz, W. "Air Quality, Human Health and Forest Fire Management." Invited presentation to the Forest Economics and Policy Advisory Committee, Resources for the Future. Washington, DC. May 22, 2002.
- Adamowicz, W. "Stated Preference Research in Environmental Economics." Invited Keynote Address presented at Discrete Choice Experiments in Health Economics. Odense, Denmark. April 18-19, 2002.
- Adamowicz, W. "Accounting for Health and Environmental Values in Policy and Resource Management." Invited presentation at the Alberta Institute of Agrologists annual meeting, Edmonton. March 22, 2002.
- Adamowicz, W. "Aboriginal People and Resource Management in Canada." Presented at Resources for the Future, Washington DC. March 13, 2002.
- Adamowicz, W. "Incorporating Values of Aboriginal People into Forest Management: An Application of Environmental Valuation." Invited presentation for the J. Wayne Reitz Special Seminar, School of Forest Resources and Conservation and Food and Resource Economics Department, University of Florida, Gainesville, Florida. February 8, 2002. Also presented at Pennsylvania State University, Department of Agricultural and Resource Economics. March 11, 2002.
- Adamowicz, W. "Public Forest Land Management in Canada: Is it Sustainable." Invited presentation at the Yale School of Forestry and Environmental Studies. Sponsored by the Department of Foreign Affairs and International Trade Canada. February 22, 2002. Also invited presentation at the University of West Virginia, Regional Resource Institute. Morgantown, West Virginia. April 12, 2002.
- Adamowicz, W., P. Boxall, M. Haener and Y. Zhang. "Incorporating Values of Aboriginal People into Forest Management: An Application of Environmental Valuation." Presented at the World Congress of Environmental and Resource Economics. Monterey, California. June 24-27, 2002.
- Boxall, P., G. Murray and J. Unterschultz. "Non-Timber Forest Products Potential from the Canadian Boreal Forest: An Exploration of Aboriginal Market Opportunities in the Wild Berry Industry." Presented at the Joint Annual meeting of Canadian Economics Association (CEA) and Canadian Agricultural Economics Society (CAES), Calgary, Alberta. June 2-5, 2002.
- Boxall, P.C. "The Recognition and Incorporation of Human Dimensions in Ecosystem Management Schemes." Invited presentation at the workshop "Fire in Ecosystem Management - The Human Dimension." Hosted by the Saskatchewan Department of the Environment and Resource Management, Prince Albert, Saskatchewan. February 5-7, 2002.

- Boxall, P.C., G. Murray, and J. Unterschultz. "The Potential for Non-timber Products from the Boreal Forest: An Exploration of Aboriginal Opportunities." Invited presentation at American Agricultural Economics Workshop on Methods of Agribusiness Research and Analysis. Long Beach, California. July 28-July 31, 2002.
- Chen, K.Z., M. Shi, and Y. Akune. "Changing Structures and Strategies in Japan's Oilseed Crushing Industry: Implications for the Canadian Oilseed Industry." Selected paper presented at the Joint Annual meeting of Canadian Economics Association (CEA) and Canadian Agricultural Economics Society (CAES). Calgary, Alberta. June 2-5, 2002.
- Chen, K.Z. and L. Miao. "Consumer Preferences for Fresh Meat Attributes and Retail Outlets in China: The Case of Hangzhou and Shanghai." Poster presented at the Cooperative Symposium "Structural Change in the Agribusiness Sector" Department of Rural Economy, University of Alberta. June 5, 2002.
- Davidson, D.J. and A. Wellstead. "Summary Report of Political Climate Modeling Study." Presented at the Prairie Adaptation Research Collaborative Synthesis workshop. Regina, Saskatchewan. April, 2002.
- Davidson, D.J. and W.R. Freudenburg. "Private Property Wrongs: Social Power and the Natural Environment." Presented at the Rural Sociological Society Annual meetings, Chicago, Illinois. August, 2002.
- Davidson, D.J., T. Williamson and J. Parkins. "Climate Change Vulnerability and Forest-dependent Communities in Canada." Presented at the Conference on the Human Dimensions of Global Environmental Change. Berlin, Germany. December, 2002.
- Davidson, D.J., A. Wellstead and R. Stedman. "Risk and Climate Change: Perceptions of Policymakers in Canada." Presented at the Conference on the Human Dimensions of Global Environmental Change. Berlin, Germany. December, 2002.
- Dosman, D. and W. Adamowicz. "Combining Stated and Revealed Preference Data to Construct an Empirical Examination of Intrahousehold Bargaining." Selected paper presented at the World Congress of Environmental and Resource Economics. Monterey California. June 24-27, 2002.
- Duku-Kaakyire, A., J. Unterschultz and B. Radke. "Evaluation of Real Options Approach to Agribusiness Valuation: A Pork Investment Case Study." Presented at the Joint Annual meeting of Canadian Economics Association (CEA) and Canadian Agricultural Economics Society (CAES). Calgary, Alberta. June 2-5, 2002.
- Dupont, D., W. Adamowicz, and A. Krupnick. "The Value of Good Quality Drinking Water to Canadians and the Role of Risk Perceptions." Presented at the annual meeting of the Canadian Water Network. September, 2002.
- Fluet, C., N. MacKendrick, D. Davidson and N. Krogman. "Land Use Planning in the Context of Rapid Development: What are the Challenges?" Presented at the the Rural Sociological Society Conference. Chicago, Illinois. August 14-17, 2002.
- Fluet, C. and N. Krogman. "Obvious Problems, Unspeakable Solutions: the Story of the Sacred Elephant (or the Oil and Gas Industry) in Alberta's Boreal Forest." Presented at the Rural Sociological Society Conference. Chicago, Illinois. August 14-17, 2002.

- Grant, H.A., and S.R. Jeffrey. "An Economic Analysis of Productive Efficiency in Alberta Dairy Production." Poster presentation at the 2002 Western Canadian Dairy Seminar, Red Deer, Alberta. March, 2002.
- Hailu, G., S. Jeffrey and J. Unterschultz. "Interregional Dairy Cost Efficiency Differential with Imposition of Local Concavity: Alberta-Ontario Comparison." A contributed paper presented at the Joint Annual meeting of Canadian Economics Association (CEA) and Canadian Agricultural Economic s Society (CAES). Calgary, Alberta. June 2-5, 2002.
- Hailu, G., S. Jeffrey and J. Unterschultz. "Interregional Dairy Cost Efficiency Comparison: The Case of Alberta and Ontario." Poster presentation at the 2002 Western Canadian Dairy Seminar, Red Deer, Alberta. March 2002.
- Hauer, G. "Economic Incentives and Issues in Managing Canada's Forest Carbon Stocks." Presented at the Joint Pollution Probe – BioCap Workshop. Ottawa, Ontario. January 17-18, 2002.
- Hauer, G. and J. Englin. "Optimal Forest Rotations with Carbon Incentives Under Risk of Catastrophic Fire." Presented a the Symposium on Models and Systems in Forestry. Punta de Tralca, Chile. March 4-7, 2002.
- Hunt, T. and G. Hauer. "How do Carbon Incentives Affect Forest Management?" Presented at the Joint Annual meeting of Canadian Economics Association (CEA) and Canadian Agricultural Economic s Society (CAES). Calgary, Alberta. June 2-5, 2002.
- Huygen, I., M. Veeman and M. Lerohl "Cost Implications of Varying Tolerance Levels in IP Systems for Grains." Selected contributed paper presented at the Joint Annual meeting of Canadian Economics Association (CEA) and Canadian Agricultural Economic s Society (CAES). Calgary, Alberta. June 2-5, 2002.
- Jeffrey, S.R. "Dairy Efficiency and Dairy Policy: Is There a Link?" Presentation at the 2002 Western Canadian Dairy Seminar, Red Deer, Alberta. March, 2002.
- Luckert, M.K. and B. Campbell. "In Search of Socially Appropriate Silver Bullets for Improving Rural Livelihoods." Keynote Address presented to the Regional Agroforestry Conference: "Agroforestry Impacts on Livelihoods in Southern Africa: Putting Research into Practice." Pretoria, South Africa. May, 2002.
- Luckert, M.K. and G. Nillson. "Using Cost Assessments of Planning Uncertainties to Direct Intensive Forest Management Research." Presentation delivered to the Sustainable Management Network Workshop on Intensive Forest Management. April, 2002.
- Luckert, M.K. "Economic Issues Associated with Intensive Forest Management." Presentation delivered to the Sustainable Management Network Workshop on Intensive Forest Management. April, 2002.
- Luckert, M.K. and A. Angelson. "Limited or Unlimited Wants in the Presence of Limited Means? Inquiries Into the Role of Satiation in Affecting Deforestation." Contributed presentation selected for the conference: "Working Forests in the Tropics: Conservations through Sustainable Management". University of Gainesville, Florida. February, 2002.
- Luckert, M.K. "Natural Resource Management Where the Stakes Are High." Invited presentation delivered as part of the Landscape Ecology Seminar Series, University of Alberta. Edmonton, Alberta. January, 2002.
- Luckert, M.K. "Trees and Household Livelihoods in Southern Africa." Invited presentation delivered as part of

- the University of "Alberta International Week 2002". Edmonton, Alberta. January, 2002.
- MacKendrick, N. and D.J. Davidson. "All Dressed Up With Nowhere to Go: The Discourse of Ecological Modernization in Alberta." Presentation at the Rural Sociological Society Annual meetings, Chicago, Illinois. August, 2002.
- Miller, J., J. Unterschultz and P. Boxall. "An Examination of the On-Ranch Economics of Riparian Grazing Management Strategies." Presented at the Joint Annual meeting of Canadian Economics Association (CEA) and Canadian Agricultural Economic s Society (CAES). Calgary, Alberta. June 2-5, 2002.
- Mitchell, R. and D.J. Davidson. 2002. "Re-examining Ecological Democracy: Developing a Research Agenda." Presentation at the American Sociological Association Annual Meetings, Chicago, Illinois. August, 2002.
- Nadeau, S., T. Beckley, J. Varghese and N. Krogman. "Buying Local Forest Mills, Putting Community Capacity to Work." Presented at the International Symposium on Society and Natural Resources. Bloomington, Indiana. June 5-9, 2002.
- Ng, D. "Knowledge Based Competitive Strategies: Strategic Complementarities from an Austrian Economic and Strategic Network Perspective," Presented at the Western Coordinating Committee (Agri-business) WCC-72, Las Vegas, Nevada. July, 2002.
- Ng, D. "Knowledge Based Competitive Strategies: Strategic Complementarities from an Austrian Economic and Strategic Network Perspective," Presented at the Joint Annual meeting of Canadian Economics Association (CEA) and Canadian Agricultural Economic s Society (CAES). Calgary, Alberta. June 2-5, 2002.
- Ng, D. "The Complexity of Social Interactions: Organizational Change and Performance." Presented at the annual meetings for Managing the Complex IV. Fort Meyers, Florida. December, 2002.
- Swait, J., W. Adamowicz and M. van Bueren. "Choice and Temporal Welfare Measures." Presented at Research Triangle Institute. Raleigh, North Carolina. April 2, 2002. Also presented at the University of West Virginia, Department of Agricultural and Resource Economics. April 12, 2002.
- Varghese, J., N. Krogman, T. Beckley and S. Nadeau. "Social Impacts of Local Ownership: Six Cases within the Forestry Industry in Canada." Presented at the International Symposium on Society and Natural Resources. Bloomington, Indiana. June 5-9.
- Veeman, M.M. "Economics Issues in GELS Research." Invited Presentation to Genome Canada's GELS Conference, Vancouver, B.C. January 17, 2002.
- Veeman, M. "Research Issues." Presented at GELS workshop. Kananaskis, Alberta. May 20, 2002.
- Veeman, M.M. "Novel Foods: Issues and Challenges." Presented at the Principal Paper session on Challenges Facing the Functional Foods and Nutraceuticals Industry at the Joint Annual meeting of Canadian Economics Association (CEA) and Canadian Agricultural Economic s Society (CAES). Calgary, Alberta. June 2-5, 2002.
- Veeman, M. "Implications of the US Farm Bill for Canadian Agriculture." Presentation to the Animal Nutrition Association of Canada annual meeting, Edmonton, Alberta. September 17, 2002.

Vyn, R., G. Hauer, and H. Brooks. "Testing the Horizon Problem in Agricultural Cooperatives: An Experimental Approach." Presented at the Joint Annual meeting of Canadian Economics Association (CEA) and Canadian Agricultural Economics Society (CAES). Calgary, Alberta. June 2-5, 2002.

Wellstead, A. and D.J. Davidson. "Political Climate Modeling: Predicting Socio-Political Responses to Climate Change." Presented at the Rural Sociological Society Annual meetings. Chicago, Illinois. August, 2002.

Proceedings, Abstracts and Other Items

Boxall, P.C., G. Murray, and J. Unterschultz. "The Potential for Non-timber Products from the Boreal Forest: An Exploration of Aboriginal Opportunities". In: T. Veeman, P. Duinker, B. Macnab, A. Coyne, K. Veeman, G. Binstead, and D. Korber (editors), *Proceedings of the Sustainable Forest Management Network Conference*, "Advances in Forest Management: From Knowledge to Practice." Edmonton, Alberta. November 13-15, 2002. p. 234-239.

Davidson, D.J., N. MacKendrick, N. Krogman and C. Fluet. "Finding its Bearings: Problem Orientation and Integrated Resource Management in Alberta." In: T. Veeman, P. Duinker, B. Macnab, A. Coyne, K. Veeman, G. Binstead, and D. Korber (editors), *Proceedings of the Sustainable Forest Management Network Conference*, "Advances in Forest Management: From Knowledge to Practice." Edmonton, Alberta. November 13-15, 2002. p. 147-153.

Fluet, C., N. MacKendrick, D. Davidson and N. Krogman. "Resource Planning in the Context of Rapid Development: What are the Challenges?" Poster and Abstract In: T. Veeman, P. Duinker, B. Macnab, A. Coyne, K. Veeman, G. Binstead, and D. Korber (editors), *Proceedings of the Sustainable Forest Management Network Conference*, "Advances in Forest Management: From Knowledge to Practice." Edmonton, Alberta. November 13-15, 2002. p. 335.

Hauer, G. and D. Nanang. "Incorporating Forest Access Decisions and Non-market Values into an Economic Assessment of Forest Landscape Priority Use Zoning." In: T. Veeman, P. Duinker, B. Macnab, A. Coyne, K. Veeman, G. Binstead, and D. Korber (editors), *Proceedings of the Sustainable Forest Management Network Conference*, "Advances in Forest Management: From Knowledge to Practice." Edmonton, Alberta. November 13-15, 2002. p. 212-216.

Jabs, J. and W. Adamowicz. "Effects of Regulatory Mechanisms on Anglers and Walleye Populations in Northern Alberta Lakes." In: T. Veeman, P. Duinker, B. Macnab, A. Coyne, K. Veeman, G. Binstead, and D. Korber (editors), *Proceedings of the Sustainable Forest Management Network Conference*, "Advances in Forest Management: From Knowledge to Practice." Edmonton, Alberta. November 13-15, 2002. p. 193-199.

Krogman, N., C. Fluet, D. Davidson, N. MacKendrick. "Integrated Resource Management: What Does it Take to "Integrate"?" In: *Tomorrow's Forests*. p. 10-11. October, 2002.

Krogman, N. Book review: "Conversations in the Rainforest: Culture, Values and the Environment." In: *Central Africa for Society and Natural Resources*. 15(2):196-198.

Leake, N.L., W.L. Adamowicz, and P.C. Boxall. "An Examination of Indicators of Economic Sustainability." Poster and Abstract In: T. Veeman, P. Duinker, B. Macnab, A. Coyne, K. Veeman, G. Binstead, and D. Korber (editors), *Proceedings of the Sustainable Forest Management Network Conference*, "Advances in Forest Management: From Knowledge to Practice." Edmonton, Alberta. November 13-15, 2002. p. 351.

- Luckert, M.K. and T. Williamson. "Should Sustained Yield be Part of Sustainable Forest Management?" Poster and Abstract In: T. Veeman, P. Duinker, B. Macnab, A. Coyne, K. Veeman, G. Binstead, and D. Korber (editors), *Proceedings of the Sustainable Forest Management Network Conference*, "Advances in Forest Management: From Knowledge to Practice." Edmonton, Alberta. November 13-15, 2002. p. 285.
- Luckert, M.K., N Nemarundwe, Gibbs, I. Grundy, G. Hauer, D. Maruzane, S. Shackleton, and J. Sithole. 2001. "Contribution of Baobab Production Activities to Household Livelihoods." In: *Household Livelihoods, Marketing and Resource Impacts: A Case Study of Bark Products in Eastern Zimbabwe*. Hot Springs Working Group. IES Working Paper No. 18. Institute of Environmental Studies, Harare, Zimbabwe. p.1-18.
- Murray, G., P. Boxall and R. Wein. "The Abundance and Use of Edible Wild Fruits in the Gwich'in Settlement Area." Poster and Abstract In: T. Veeman, P. Duinker, B. Macnab, A. Coyne, K. Veeman, G. Binstead, and D. Korber (editors), *Proceedings of the Sustainable Forest Management Network Conference*, "Advances in Forest Management: From Knowledge to Practice." Edmonton, Alberta. November 13-15, 2002. p. 357.
- Ng, D. "Supply Chain Organization through Entrepreneurship and Strategic Management of Networks," In: *Paradoxes in Food Chain and Networks*. Conference proceedings for the 5th International Conference on Chain and Network Management / 12th International Agribusiness Management Association (IAMA) symposium, Netherlands. July, 2002. p. 340-351.
- Ng, D., S. Sonka, and R. Westgren. "Towards a Conceptual Understanding of Supply Chain Evolution: The Paradox of Social Pressures vs. Economic Efficiency Across the World's Food Chains," In: *Paradoxes in Food Chain and Networks*. Conference proceedings for the 5th International Conference on Chain and Network Management/12th International Agribusiness Management Association (IAMA) symposium, Netherlands. July, 2002. p. 45-58.
- Nilsson, G. and M.K. Luckert. "Using Cost Assessments of Planning Uncertainties to Direct Forest Management Information Collection." In: T. Veeman, P. Duinker, B. Macnab, A. Coyne, K. Veeman, G. Binstead, and D. Korber (editors), *Proceedings of the Sustainable Forest Management Network Conference*, "Advances in Forest Management: From Knowledge to Practice." Edmonton, Alberta. November 13-15, 2002. p. 200-205.
- Parkins, J. and D. Davidson. "High Theory and the Art of Public Deliberation: The Case of Forest Industry Advisory Groups in Alberta." In: T. Veeman, P. Duinker, B. Macnab, A. Coyne, K. Veeman, G. Binstead, and D. Korber (editors), *Proceedings of the Sustainable Forest Management Network Conference*, "Advances in Forest Management: From Knowledge to Practice." Edmonton, Alberta. November 13-15, 2002. p. 223-228.
- Schramm, T., N. Krogman, and R. Hudson. 2002. "Woodland Cree Knowledge on Critical Ungulate Habitat: A GIS Analysis." In: T. Veeman, P. Duinker, B. Macnab, A. Coyne, K. Veeman, G. Binstead, and D. Korber (editors), *Proceedings of the Sustainable Forest Management Network Conference*, "Advances in Forest Management: From Knowledge to Practice." Edmonton, Alberta. November 13-15, 2002. p. 124-129.
- Veeman, T.S., J. Politylo and A. Hailu. "The Case for Environmentally-Adjusted Productivity Growth as a Critical Indicator of Forest Sector Sustainability." In: T. Veeman, P. Duinker, B. Macnab, A. Coyne, K. Veeman, G. Binstead, and D. Korber (editors), *Proceedings of the Sustainable Forest Management Network Conference*, "Advances in Forest Management: From Knowledge to Practice." Edmonton,

Alberta. November 13-15, 2002. p. 250-255.

Weber, M. and W. Adamowicz. Tradable Land Use Rights for Cumulative Effects Management. Presentation at the Sustainable Forest Management Network Annual Conference. In: T. Veeman, P. Duinker, B. Macnab, A. Coyne, K. Veeman, G. Binstead, and D. Korber (editors), *Proceedings of the Sustainable Forest Management Network Conference*, "Advances in Forest Management: From Knowledge to Practice." Edmonton, Alberta. November 13-15, 2002. p. 141-146.

Weber, M., S. Cumming and W. Adamowicz. Comparing the Welfare Effects of Using Alternative Biodiversity Metrics in Reserve Design. Poster and Abstract in: T. Veeman, P. Duinker, B. Macnab, A. Coyne, K. Veeman, G. Binstead, and D. Korber (editors), *Proceedings of the Sustainable Forest Management Network Conference*, "Advances in Forest Management: From Knowledge to Practice." Edmonton, Alberta. November 13-15, 2002. p. 381.

Staff Papers and Research Project Reports

Dosman, D. and W. Adamowicz. "Combining Stated and Revealed Preference Data to Construct an Empirical Examination of Intrahousehold Bargaining." Staff Paper 02-01. Department of Rural Economy, University of Alberta. 30 p.

Dosman, D., M. Haener, W. Adamowicz, J. Marois and P. Boxall. "Assessing Impacts of Environmental Change on Aboriginal People: An Economic Examination of Subsistence Resource Use and Value." Project Report. 02-01. Department of Rural Economy, University of Alberta. 33 p.

L'Hoir, C., E. Goddard, D. Ng, and M. Lerohl. "Preferences About Marketing Organic Grain in Alberta." Project Report 02-05. Department of Rural Economy, University of Alberta. 50 p. + appendices.

Miller, J., J. Unterschultz and P. Boxall. "The Economics of Riparian Area Management. Cows and Fish Alberta Riparian Area Management Program." Report No. 015. Alberta Riparian Habitat Management Program, Cows and Fish, Lethbridge, Alberta. 107 p.

Ng, D. "A Socio-Cognitive Basis for Strategic Groups: Cognitive Dissonance in Swine Genetics." Staff Paper 02-02. Department of Rural Economy, University of Alberta. 35 p.

Ng, D. "Knowledge Based Competitive Strategies: Strategic Complementarities from an Austrian Economic and Strategic Network Perspective." Staff Paper 02-03. Department. of Rural Economy, University of Alberta. 35 p.

Ng, D., R. Westgren and S. Sonka. "A Coevolutionary Approach to Understanding the Paradox of Social Pressures versus Economic Efficiency Across the World's Food Chains." Staff Paper 02-04. Department of Rural Economy, University of Alberta. 21 p.

Patriquin, M., Alavalapati, J., Adamowicz, W. and White, W. "Environmentally Extended Regional Economic Impact Modeling." Sustainable Forest Management Network Working Paper 2001-12.

Shapansky, B., W. Adamowicz and P. Boxall. "Measuring Forest Resource Values: An Assessment of Choice Experiments and Preference Construction Methods as Public Involvement Tools." Project Report. 02-03. Department of Rural Economy, University of Alberta. 36 p.

Unterschultz, J.R. and R. K. Gurung. "New Generation Co-operatives (NGC) as a Model for Value-Added Agricultural Processing in Alberta: Applications to Factors Affecting Choice of Pricing and Payment Practices by Traditional Marketing and New Generation Co-operatives." Project Report 02-06. Department of Rural Economy, University of Alberta. 100 p.

Veeman, M.M., J.R. Unterschultz, and R. B. Kim. "Canadian Wheat Export Prospects in the Asian Noodle Market: Analyzing Japanese and Korean Milling Industries." AARI Project #99M444. Project Report 02-02. Department of Rural Economy, University of Alberta. 62 p.

Veeman, M.M., T. S. Veeman and S. Adilu. "Analysis of East Asian Meat Import Demand: Market Prospects for Alberta and Canada." AARI Project #990030. Project Report 02-04. Department of Rural Economy, University of Alberta. 84 p.

Yen, S. T. and K. Chen. "Potato Consumption in Canada: Is It Becoming a Normal Good." Staff Paper 02-05. Department of Rural Economy, University of Alberta. 30 p.

Research Projects Completed January 1 - December 31, 2002

Beckley, T. "Legacy 2: Understanding Forest User's Sense of Place: Implications for Forest Management." Funded by Sustainable Forest Management Network. Additional funding from Canadian Grampolar Institute - DIAND - NSTP.

Boxall, P.C. "Enhancing the Quality of Benefit Transfers: An Application of State of the Art Latent Class Methods." Funded by EFF.

Chen, K.Z. "Assessing the Chinese Markets for Alberta Livestock Products." Funded by AARI.

Chen, K.Z. "The Changing Patterns of Agricultural Trade in Mainland China and Taiwan." Funded by SSR.

Chen, K.Z. "China's Agri-food Imports: Implications of China's Accession to WTO for Canada." Funded by EFF.

Chen, K.Z. and M.M. Veeman. "Where, What and How Much Food Do Canadian Consumers Purchase? Food Purchasing Patterns and Determinants." Funded by FFF-AARI.

Davidson, D.J. "Forest Resources Governance in an International Economy: Canada, the US and Mexico." Funded by HFASSR (Humanities, Fine Arts and Social Sciences Research).

Davidson, D.J. "Integration of Forestry and Oil/Gas Policy Regimes: Opportunities and Constraints." Funded by Sustainable Forest Management Network.

Davidson, D.J. "Political Climate Modelling: Predicting Socio-Political Responses to Climate Change in the Prairie Provinces." Funded by NRC. Transferred to CFS.

Hauer, G.K. "Climate Change Adaptation and the Timber Supply in Alberta." Funded by EFF-SAS.

Hauer, G.K. "How Do Climate Change Incentives Affect Forestry Management." Funded by BIOCAP Canada.

Hauer, G.K. "How Do Climate Change Related Economic Incentives Affect Forest Management?" Funded by

Foothills Model Forest.

Hauer, G.K. "Legacy 2: Optimization-based Forest Planning Tolls for Sustainable Forest Management." Funded by Sustainable Forest Management Network.

Krogman, N.T. "The Effectiveness and Potential of the Cooperative Forest Management Planning Board in the Caribou-Lower Peace Region." Funded by Sustainable Forest Management Network.

Lerohl, M.L. "The New Millennium: Structured Change in Agriculture and Agribusiness." Funded by EFF-SAS.

Luckert, M.K. and E. Murray. "Agroforestry: Southern Africa." Funded by CIDA.

Unterschultz, J.R. and H.G. Brooks. "New Generation Cooperatives as a Model for Value Added Agricultural Processing in Alberta." Funded by Co-op Chair in Agricultural Marketing and Business.

Unterschultz, J.R. "Valuing Strategic Management Decisions in Agribusiness and Biotechnology." Funded by EFF-SAS.

Veeman, M.M. "NAFTA in the Next Ten Years: Issues and Challenges for Agricultural Trade Policy." Funded by EFF-SAS.

Veeman, M.M. "Public Perceptions of Biotechnology: Literature Overview and Assessment." Funded by EEF.

Veeman, M.M. and T.S. Veeman. "Asian Import Demand for Albertan and Canadian Meats: Market Prospects, Influences, and Vulnerabilities." Funded by Farming for the Future, AARI.

Veeman, T.S. and M.M. Veeman. "Export Markets for Canadian Grain: The Chinese Enigma." Funded by AARI.

Research in Progress as of December 31, 2002

- Adamowicz, W.L. "Forest Use and Non-Use Values: A Research Program Proposal." Funded by Mistik Management Ltd.
- Adamowicz, W.L. "Legacy 2; Economic Sustainability: An Assessment of Criteria and Indicator Systems for Economic Components of Sustainable Forest Management." Funded by Sustainable Forest Management Network.
- Adamowicz, W.L. "Legacy 2; Modelling Spatial and Temporal Economic Activity in Forested Landscapes: Forest Management, Non-timber Values, Habitat, Wildlife Access, Cumulative Effects, Disturbance, Recreational Use, Subsistence Use and Human Dynamics." Funded by Sustainable Forest Management Network.
- Adamowicz, W.L. "Modelling Non-timber Benefits via Benefits Transfers." Funded by Sustainable Forest Management Network.
- Adamowicz, W.L. and P.C. Boxall. "Environmental Valuation for Use in Forest Management and Decision Making." Funded by SSHRC with matching funds from NSERC.
- Adamowicz, W.L. "Environmental Valuation for Use in Forest Management and Decision Making." Funded by Mistik Management Ltd.
- Adamowicz, W.L. "Developing Computing Facilities for the Integration of Forest and Resource Management and Environmental Economics." Funded by CFI.
- Adamowicz, W.L. "An Assessment of Economic Sustainability Indicators in a First Nations Context." Funded by Sustainable Forest Management Network.
- Adamowicz, W.L. "Health and Social Benefits of Pathogen Reduction by Drinking Water Treatment." Funded by Brock University (Canadian Water Network).
- Boxall, P.C. "Model on the Economics of Riparian Management Project." Funded by Cows and Fish.
- Boxall, P.C. "A Static and Dynamic Analysis of Forest Recreation Values at Risk." Funded by Sustainable Forest Management Network.
- Boxall, P.C. "Legacy 2; Developing Sustainable Non-timber Forest Products Business Opportunities: Is there a First Nation Advantage?" Funded by Sustainable Forest Management Network.
- Chen, K.Z. "Socio-economic and Demographic Determinants of the Canadian Decision to Healthy Eating." Funded by EFF-SAS.
- Chen, K.Z. "Trade Liberalization, Changing Structure and Competitiveness of Japan's Oilseed Crushing Industry: Implications for Canada." Funded by EEF-SAS.
- Davidson, D.J. "States and Societies in North America Forest Governance." Funded by U of A VP Research.
- Davidson, D.J. "Analysis of Social Institutional Integrated Resource Management." Funded by Weyerhaeuser Canada.

- Davidson, D.J. “Alberta Forest Management in the Public Sphere: A Province-wide Case Study of Public Advisory Groups.” Funded by Sustainable Forest Management Network.
- Davidson, D.J. “Integration of Forestry Constraints.” Funded by Sustainable Forest Management Network.
- Hauer, G.K. “Integrated Assessment of Intensive Forest Management under the TRIAD Approach to Land Use Design.” Funded by Sustainable Forest Management Network.
- Jeffrey, S.R. “Public Safety Net Programs and Sustainability in Alberta Crop Production.” Funded by EFF-SAS.
- Krogman, N.T. and T.M. Beckley. “Social Consequences of Local Ownership of Canadian Forest Producer Mills.” Funded by Social Sciences and Humanities Research Council of Canada.
- Krogman, N.T. and R.M. Hudson. “SES Theme: Caribou Mountains Critical Wildlife/Habitat Integrated Research Project.” Funded by SFM-SES.
- Krogman, N.T., “Community Perceptions of Wastewater Irrigation to Create a Poplar Plantation: Lessons Learned from Lac La Biche.” Funded by Alberta Pacific Forest Industries Inc.
- Krogman, N.T. “Professional Forester Certification in the New Millennium: Opportunities and Constraints for Forestry Curriculum Change.” Funded by Sustainable Forest Management Network.
- Krogman, N.T. “The Role of Renewable Resource Councils in Community Based Forest Management Planning in the Yukon: The Case of the Alsek Renewable Resource Council.” Funded by Sustainable Forest Management Network.
- Luckert, M.K. “Community Land Project (Zimbabwe) Project.” Funded by University of Zimbabwe & IDRC.
- Luckert, M.K. “Legacy 2; Socio-economic Assessments of Intensive Forest Management.” Funded by Sustainable Forest Management Network.
- Ng, Desmond. “Commercialization and Society and Its Policy and Strategic Implications.” Funded by Genome Prairie.
- Unterschultz, J.R. “Innovative Risk Management: Tools for Alberta Agriculture.” Funded by Alberta Agriculture, Food and Rural Development.
- Veeman, M.M. “Genetically Modified Foods: Consumers’ Attitudes and Labelling Issues.” Funded by AARI.
- Veeman, M.M. “Genomics, Ethics, Environment and Society: Commercialization and Society, Building Informed Policies and Strategies.” (with researchers from University of Alberta, University of Calgary and University of Saskatchewan). Funded by Genome Canada - Genome Prairie - GELS.
- Veeman, M.M. “Risk Perceptions, Social Interactions and the Influence of Information on Social Attitudes to Agricultural Biotechnology.” Funded by AARI.
- Veeman, M.M. “Valuation of Environmental Services of Agroforestry Systems.” Funded by International Centre for Research in Agroforestry.

Veeman, M.M. "2003 Durban Conference." Funded by IAAE, CAES.

Veeman, T.S. and M. Luckert. "Economic Issues in Assessing Sustainable Development in Forestry." Funded by Sustainable Forest Management Network.