The background features a white space with several large, colorful circles and dashed lines. In the top left, there is a large teal circle with a white center, and a smaller blue circle next to it. In the top right, there is a large lime green circle with a smaller green circle inside it, both with dashed outlines. In the bottom left, there is a large green circle with a white center, and a smaller yellow circle next to it. In the bottom right, there is a large yellow circle with a white center, and a smaller orange circle next to it. A large, light blue dashed line forms a partial circle around the central text.

Plants, Pancakes, and Penguins!

Partnering with the STEM Community to Promote
Innovative Science Literacy

Christina Hwang - University of Alberta Libraries
Quincy Hiscott - Edmonton Public Library

TNSBC 2018 | Friday, May 25, 2018



Agenda

1. Introduction & UAL (2016, 2017)
 2. Events
 3. STEM Partnerships
 4. Successes, Lessons Learned, Going Forward
 5. Questions
- 

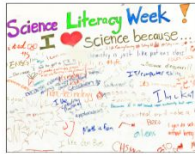
A decorative graphic featuring a large, light blue dashed circle that spans across the page. Various colored circles and rings are scattered around it: a large teal ring in the top left, a smaller teal circle next to it, a lime green circle in the top right, a green circle with a dashed outline below it, a pink circle in the middle right, an orange circle below that, a yellow ring in the bottom right, a green circle with a white dot in the bottom left, a lime green circle with a dashed outline above it, and a small orange circle below that.

Science
Literacy
Week

UAL 2016



A week-long celebration of science in Canada



What a Science Literacy Week! Over the course of 19 events (the most of any university in the country!), the entire U of A community showed just how passionately curious they were about all things science. Hundreds of students passed by Clive Coy from the Dino Lab as he excavated part of the vertebral column of a duckbilled dinosaur, and the large audience at Janet Ng's talk about endangered ferruginous hawks got up close and personal with Winnie the peregrine falcon. Students had the opportunity to hear about each others research and work, with the students from AlbertaSat showcasing their work on the first Alberta-built satellite - we're counting down to launch day! Dr. Braden Barr and Danny Shepley brought over terrific specimens, with passers by getting up close and personal with beetles, butterflies, antenators, and pangolins. Technology was also on full display, with great makerspace demos by EdTech and Cameron Library's 3D printer expert!

Thank you to all who came to play with everyday chemistry, and learn about citizen science through gathering data on worms and plants; who toured up the stars and meteorites, and dove down to the tiniest bioson - your curiosity knows no bounds!

Biggest and most sincere thanks to our wonderful presenters! Your passion for your research, and your ability and talent to share with students and staff was amazing! We are all more science-smart because of you!

Photos from the week

Storify

I have no special talents. I am only passionately curious. - Albert Einstein, 11 March 1952

Science Literacy Week is a national week-long celebration of science in Canada. From September 19 to 23, 2016, University of Alberta Libraries will host a number of presentations, demos, and displays showcasing the diverse scientific research conducted by staff and students all across the University of Alberta. From paleontology and particle physics, to citizen scientists and satellites, the breadth of knowledge and research is amazing! Science Literacy Week gives students and staff the opportunity to get up close and personal with scientific research and learn what goes on behind lab room doors from those who are passionately curious about their research and work.

So put on your lab coat, find your best beaker, and check out the schedule for a complete list of events. Everyone is welcome!

Schedule

Mon 19 Sept 2016	Making Science Fun: Science Magic Show	Shakib Rahman (Dept. of Chemistry)	Shakib Rahman will delve into the wonders of science and unravel some of the mysteries of chemistry. His show will cover density, surface tension, absorbent materials and more. Public activities are also incorporated into the show.	Cameron Library, Main Floor 12:00-1:00
Mon 19 Sept 2016	NanoFab Cleanroom Tour	Jocelyn Bachman (NanoFab)	See where nanoscience happens in the cleanest lab on campus, and learn about the basics of how nanotechnology is made!	Tours leave from Library Service Desk at 1:30 & 2:30
Mon 19 Sept 2016	Really Big Bird Houses: Mitigation and management for endangered Ferruginous Hawks	Janet Ng (Dept. of Biological Sciences)	A summary of current research on Ferruginous Hawk ecology and how it can be used to inform conservation and management of this species at risk.	Cameron Library, Francis Lounge 2:30-3:30
Mon 19 Sept 2016	Dino Lab	Clive Coy & Howard Gibbins (Dept. of Biological)	Learn about U of A's own Jurassic Park, the Dino Lab!	Cameron Library, Main Entrance

Thu 22 Sept 2016	Lift Off Alberta	AlbertaSat	AlbertaSat, a student-run project at the U of A, has built the province's first cryo satellite and is launching the province's first operational satellite this fall.	Cameron Library, Main Floor 12:00-1:00
Thu 22 Sept 2016	Images of Research	Hector Renee (Dept. of APSC), Ryan Beaudet (Dept. of Renewable Resources), Dr. Braden Barr (Dept. of Renewable Resources), Ryan Wang (Dept. of Chemical and Materials Engineering)	Participants in U of A Images of Research competition submit about how they transformed their research into works of art.	Cameron Library, Main Floor 1:30-2:30
Thu 22 Sept 2016	Public Lecture: Aesthetics before a satellite	Canadian Physics Student Association	Dr. Paul Corkum from the University of Ottawa explains the principles of three types of lasers: green lasers, water lasers, and extreme lasers, and how they are used to research how molecules and the femto-pulses of light just atoms in a solution. Moreover, these pulses of light can be used to measure the motion of an electron. How do atoms or molecules react to the oscillations of the waves of visible light? Register for free at http://imgofresearch.com	CCO Room 1-423 1:00 - 3:00 PM
Thu 22 Sept 2016	Meteorites from the U of A Observatory	Department of Physics, Astrophysical Observatory	Come learn about meteorites and observing at the U of A observatory!	Cameron Library, Main Floor 2:30-3:30
Fri 23 Sept 2016	Maker Tools for Education	EdTech (Dept. of Education)	Come and see some of the latest trends in Maker technology for the classroom. Learn more about classroom suitability or simply just come and play with some toys!	Cameron Library, Main Floor 12:00-1:00
Fri 23 Sept 2016	Dino Lab	Clive Coy & Howard Gibbins (Dept. of Biological Sciences)	Learn about U of A's own Jurassic Park, the Dino Lab!	Cameron Library, Main Entrance 1:30-2:30
Fri 23 Sept 2016	3D Printing Demos	Cameron Library	Learn about this free library service, and how you can use it for your school work. Everyone is welcome!	Cameron Library, Main Floor 1:30-2:30

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Mon 19 Sept 2016	Dino Lab	Clive Coy & Howard Gibbins (Dept. of Biological Sciences)	Learn about U of A's own Jurassic Park, the Dino Lab!	Cameron Library, Main Entrance 1:30-2:30
Tue 20 Sept 2016	3D Printing Demos	Cameron Library	Learn about this free library service, and how you can use it for your school work!	Cameron Library, Main Floor 11:00-12:00
Tue 20 Sept 2016	Lift Off Alberta	AlbertaSat	AlbertaSat, a student-run project at the U of A, has built the province's first cryo satellite and is launching the province's first operational satellite this fall.	Cameron Library, Main Floor 12:00-1:00
Tue 20 Sept 2016	Bug Show and Tell	Danny Shepley (Dept. of Biological Sciences)	Danny will show us beautiful anomalies from the wonderful B.H. Stoddard Entomological Museum collection.	Cameron Library, Main Floor 1:00-2:00
Tue 20 Sept 2016	Citizen Science	Dr. James Pepp (Dept. of Education), Dr. Braden Barr (Dept. of Renewable Resources)	Learn how ordinary Albertans are helping scientists collect data for their research. Prize provided by the Librarian!	Cameron Library, Francis Lounge 2:30-3:30
Wed 21 Sept 2016	Maker Tools for Education	EdTech (Dept. of Education)	Come and see some of the latest trends in Maker technology for the classroom. Learn more about classroom suitability, or simply just come and play with some toys!	Chubb Education Library 12:00-1:00
Wed 21 Sept 2016	Dinosaur Fossil Prep for Dinosaurs	Clive Coy (Dept. of Biological Sciences)	See how U of A paleontologists prepare and clean for dinosaur fossils!	Cameron Library, Main Floor 12:00-1:00
Wed 21 Sept 2016	Why Jargon Matters: Deep Fossils and Living Words	Dr. Braden Barr (Dept. of Biological Sciences)	Dr. Barr will introduce a few key concepts in evolutionary biology using exciting specimens. Emphasis will be placed on the appropriate use of jargon when communicating science.	Cameron Library, Main Floor 1:30-2:30
Wed 21 Sept 2016	Particle Fever	Dr. Roger Moore & Dr. James Reibel (Dept. of Physics)	The 2015 documentary follows the real-time journey of experiments conducted by the Large Hadron Collider (LHC) at CERN, including the discovery of the Higgs boson. Dr. Moore will introduce speakers and Dr. Reibel will be playing in from CERN to give a little inside look of the Centre from. Prize provided by the Faculty of Science!	CCO Room 1-423 3:00-5:00



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University of Alberta



SCIENCE LITERACY WEEK

UAL 2017

Science Literacy Week

A week-long celebration of science in Canada September 18-24, 2017



From September 18 to 22, 2017, University of Alberta Libraries will host a number of presentations, demos, and displays showcasing the diverse scientific research conducted by staff and students all across the University of Alberta. From paleontology and particle physics, to citizen scientists and satellites, the breadth of knowledge and research is amazing! Science Literacy Week gives students and staff the opportunity to get up close and personal with scientific research and learn what goes on behind lab room doors from those who are passionately curious about their research and work.

So put on your lab coat, find your best beaker, and come check it out. Everyone is welcome!

Department of Physics Astronomical Observatory will be hosting sessions on the following days:

- Thursday Sept 21 - 12-1pm
- Thursday Sept 21 - 9-10pm
- Friday Sept 22 - 8:30-10pm

Sign up for cool coding workshops during with Ladies Learning Code - Check out the link for more!

Photos from 2016 Science Literacy Week at UAL



Full list of Events

Our Partners / Collaborators

Volunteer at SLW!

Science & Literacy Week in Canada

Tweets by @ualibraries

University of Alberta Libraries

Get involved! Books and more from the President's Office of \$100 - \$1500. Exhibit on how it all works! Meet Special Collections and Knowledge Services. Register now!

Book Lovers & Bookworms



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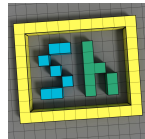
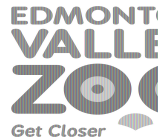
women in scholarship, engineering, science &

September 18 - 22

Mon 9/18	Tue 9/19	Wed 9/20	Thu 9/21	Fri 9/22
Book Lovers at UAL	Book Lovers at UAL	Book Lovers at UAL	Book Lovers at UAL	Book Lovers at UAL
Featured books of Science Literacy Week Biological Sciences Science Literacy Week - SLWAC SLW Week - Peanut Gallery! Books to Chris Marshall (DPMWT) Biological Exhibit at Cameron Library!	Featured books of Science Literacy Week Biological Sciences Science Literacy Week - SLWAC SLW Week - Peanut Gallery! Books to Chris Marshall (DPMWT) Biological Exhibit at Cameron Library!	Featured books of Science Literacy Week Biological Sciences Science Literacy Week - SLWAC SLW Week - Peanut Gallery! Books to Chris Marshall (DPMWT) Biological Exhibit at Cameron Library!	Featured books of Science Literacy Week Biological Sciences Science Literacy Week - SLWAC SLW Week - Peanut Gallery! Books to Chris Marshall (DPMWT) Biological Exhibit at Cameron Library!	Featured books of Science Literacy Week Biological Sciences Science Literacy Week - SLWAC SLW Week - Peanut Gallery! Books to Chris Marshall (DPMWT) Biological Exhibit at Cameron Library!
9am				
10am				
11am	11am: Open House 11:30am: Popcorn/Present/Coffee 12pm: Map 12:30pm: Meet with Makers 1pm: Meet with Makers 2pm: Meet with Makers 3pm: Meet with Makers 4pm: Meet with Makers 5pm: Meet with Makers 6pm: Meet with Makers 7pm: Meet with Makers 8pm: Meet with Makers 9pm: Meet with Makers	11am: Open House 11:30am: Popcorn/Present/Coffee 12pm: Map 12:30pm: Meet with Makers 1pm: Meet with Makers 2pm: Meet with Makers 3pm: Meet with Makers 4pm: Meet with Makers 5pm: Meet with Makers 6pm: Meet with Makers 7pm: Meet with Makers 8pm: Meet with Makers 9pm: Meet with Makers	11am: Open House 11:30am: Popcorn/Present/Coffee 12pm: Map 12:30pm: Meet with Makers 1pm: Meet with Makers 2pm: Meet with Makers 3pm: Meet with Makers 4pm: Meet with Makers 5pm: Meet with Makers 6pm: Meet with Makers 7pm: Meet with Makers 8pm: Meet with Makers 9pm: Meet with Makers	11am: Open House 11:30am: Popcorn/Present/Coffee 12pm: Map 12:30pm: Meet with Makers 1pm: Meet with Makers 2pm: Meet with Makers 3pm: Meet with Makers 4pm: Meet with Makers 5pm: Meet with Makers 6pm: Meet with Makers 7pm: Meet with Makers 8pm: Meet with Makers 9pm: Meet with Makers



SCIENCE LITERACY WEEK



53 Events/Experiences





Our mission
TeamUP Science Society of Edmonton is committed to providing unique learning experiences to junior high and high school students throughout Alberta. This is done by hosting workshops, events, and competitions that offer interactive and hands-on learning in many different fields of science. The majority of our students are from Edmonton; however, TeamUP Science encourages inclusion of all students throughout Alberta, such as those in rural communities.

TeamUP SCIENCE
Inspiring Youth Everywhere

COMPUTER SCIENCE WORKSHOP

- Computing Science Workshop is a two day event open to all high school students.
- This event allows its participants to learn the basic components of programming.
- Directors will decide which languages to teach the participants.
- Volunteers will act as teaching assistants prior programming experience is required.

ENGINEERING WORKSHOP

- Engineering Workshop is a one day event open to all high school students.
- Features experiments and interactive lessons from multiple disciplines within engineering.
- Directors will decide which disciplines to feature at the event.
- Volunteers will be present at the event to ensure its success.

MEDICAL SCIENCE WORKSHOP

- Medical Science Workshop is a one day event open to all high school students.
- Features interactive demos and opportunities to use medical equipment.
- This event happens twice a year.
- Directors will plan the event and decide which areas in medicine will be covered.
- Volunteers will be present at the event to ensure the success.

YOUTH SCIENCE INNOVATE PROGRAM

High Science Innovate Program (HSIP) provides a year to junior high students with the opportunity to explore the sciences through planned hands-on experiments.

The year occurs once a week during school days throughout the year.

HSIP will be happening in Westmount Junior High this year (30 minutes by public transit from the University). Focus on experiments will be on STEM topics (Science, Technology, Engineering, Mathematics).

Communications
Manages all communications within the organization and all of its members.

- Manages the social media, volunteer recruitment, and communications between the organization and its members.
- Collaborates with high schools to promote our events.
- Finds sponsors, coordinates presentations at high schools and manages any media coverage that may be required.





SCIENCE LITERACY WEEK!

NEW PERSPECTIVES

I ♥ SCIENCE because....

no bullshit
#MINDBLOWN
it satisfies my spirit!

I just want some money man
how are you going to get paid in arts??
& business is dumb who needs accountants
lmao. But GG getting into Med school
Doctors are the new Cartels

it enables us to understand
and enjoy in deeper ways
our beautiful world
Being IN THE LAB

NO ONE wants
to be a Philosopher

Cause it's boring and
Arts are terrible

It's the
poetry of reality

Dexter's Lab

because
art is too hard
PERMAFROST RULES!!

Science is
magic!

苟且 U get da good
cash ← only if you get a job



We also tend
to not be the
best at grammar

That's because we
Engineer do not like
to "embrace" "New"
things. so your things
stay at lab (university)

AI will
control
the future

Geophysics
is nightmare

lol English is
I course out of 5
genius. Plus
you can't bribe
the VA
Y'all still
How did
we get into
U of A then?
oh yes
Rich
Parents

Not True
pen

SCIENCE







during this event
and may be used
in print and web
communications
and in other
promotional
material.

f t i @uofalibraries







christina hwang @christina_hwang · Sep 22

Everyone wants Liquid Nitrogen Ice cream!!! Cold science at its best! Delicious toppings for those curious! #scilit17 #UAlberta @chemsauofa







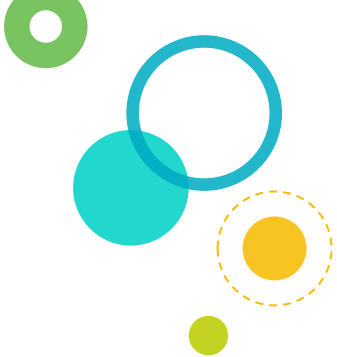




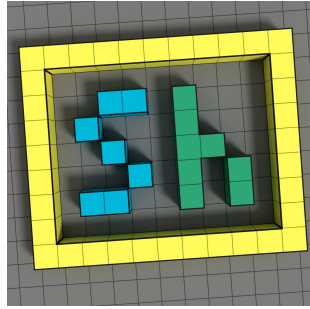


External Involvement

STEM Partners

- Recruited through emails, forms, personal contacts
 - Local STEM (College, Businesses, Organizations) -
Busy Fall / Conflicting events
 - Many Student Groups - Unavailable over the summer months
 - Schedule!
- 

let's talk 
science



TeamUP
SCIENCE
Inspiring Youth Everywhere

EDMONTON
VALLEY
ZOO
Get Closer



Organization of Botany Students

DISCOVER  e



CRSNG
NSERC

 **MDA**
Laboratory of Intelligent Manufacturing, Design and Automation

WISE

women in scholarship, engineering, science &

THE ROYAL
CANADIAN
GEOGRAPHICAL
SOCIETY



LA SOCIÉTÉ
GÉOGRAPHIQUE
ROYALE DU
CANADA


SUPPORT NETWORK I

Faculty of

SCIENCE

University of Alberta



Successes

- **Brand New Ideas** - never done before
- **Campus Exposure** - Gate count: approximately 2,500 more visitors. Friday had surge of approximately 1700 additional counts
- **UAL #1** - 2nd year in a row, most events in any academic library in Canada
- **Campus Engagement** - Word of mouth promo, discover during “failure”
- **Flexible & Strategic On-the-Fly** - Tables and giveaway placements, additions
- **Internal & External stakeholders’ Involvement** - increased type and level of activities & participation and science literacy exposure & learning

Some Lessons Learned

- **Be prepared for the Unexpected** - Off-campus liquor license form & fee, ethics for animal visit, Quad bookings changes, popcorn cart wheel popping out (extra \$), high schools needed notice in May (and not August) for permissions and funding
- **Way Too Popular** - Crowd control & space management, breaker switches, extra table visits
- **Over Communicate** - Stakeholder organizers knew, but some of their volunteers didn't; SLW volunteer timing (start of school year)

Going Forward

- \$10K NSERC & CSA - Space Theme
- UAL Interest
 - To build on the Event's success to continue offering a strong program of events to **engage broader UA community** to see & experience **real life science**
 - **Joy** of learning
 - Higher goals of Wellness - Stressful time for students
 - Large scale event that creatively broadens **library** outreach



Questions?

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Quincy Hiscott | hiscott@ualberta.ca

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