

Research & Innovation Week

Lakehead University

March 1 - March 7, 2014



Lakehead
UNIVERSITY

PROGRAM OF EVENTS 2014

THUNDER BAY CAMPUS

Friday, February 28

- Launch of R&I Week 2014

Saturday, March 1

- R&I Week @ Intercity Shopping Centre (exhibitions/ displays)

Monday, March 3

- Graduate Student Conference Day 1 (Oral Presentations)
- Campus Market: A Living Laboratory
- *Acquisition of French by Northwestern Learners* (Presentation by Dr. Isabelle Lemée, Department of Languages)
- *The Black Death and the Plague of Justinian: Hunting, Trapping and Taming Pandemics of the Past* (Faculty of Science and Environmental Studies Speaker Series: Presentation by Dr. Hendrik Poinar, Canada Research Chair in Paleogenetics, McMaster University)

Tuesday, March 4

- Graduate Student Conference Day 2 (Poster Session)
- Postdoctoral Fellows Poster Competition
- Research Matters: What Matters Now Thunder Bay (at Fort William Historical Park)

Wednesday, March 5

- *The Power of Partnerships* (Earl Miller, Director of Strategic Partnerships at MaRS Discovery District)
- Undergraduate Student Research Day
- *Design of Functional Nanomaterials for Green Chemistry Applications* (2012 Lakehead University NSERC Distinguished Researcher Presentation by Dr. Aicheng Chen, CRC in Materials and Environmental Chemistry)

- *The Torture of Children as War Strategy in Syria: A Violation of Jus Cogens International Law* (2012 Lakehead University SSHRC Distinguished Researcher Presentation by Dr. Sonja Grover, Faculty of Education, Lakehead University)
- *"The Past and The Future are Present": Race Relations in Canada* (Presentation by Joseph Boyden)

Thursday, March 6

- Faculty Research Day (Agora)
- Dr. Michael W. Salter: Gairdner Foundation Lectures
- Research and Innovation Week Awards Reception (Faculty Lounge - Thunder Bay Campus)

ORILLIA CAMPUS

Monday, March 3

- *The Black Death and the Plague of Justinian: Hunting, Trapping and Taming Pandemics of the Past* (Faculty of Science and Environmental Studies Speaker Series: Presentation by Dr. Hendrik Poinar, Canada Research Chair in Paleogenetics, McMaster University)

Tuesday, March 4

- Mini-conference Day 1

Wednesday, March 5

- Undergraduate Student Research Day

Thursday, March 6

- Mini-conference Day 2



OFFICIAL LAUNCH

Research and Innovation Week 2014 was launched on February 28 in Lakehead University's Agora. As part of the event, some of the technology developed by Lakehead University's Faculty of Engineering students was on display for the audience and for the media.



Dr. Umed Panu, Associate VP (Research, Economic Development and Innovation), opened Research and Innovation Week 2014.



Dr. Krishnamoorthy Natarajan, Acting Dean of Engineering discussed National Engineering Month.



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Research & Innovation

INTERCITY SHOPPING CENTRE

The public joined Lakehead at Intercity Shopping Centre to help celebrate some of the most intriguing and successful research and innovation initiatives taking place in our City. The public was invited to ask research-related questions at the Research Matters Curiosity Shop. They could also unfold the mysteries of their ancestry with DNA testing, talk to researchers about anthropological artifacts, learn about natural resources management, view technology related to the care for the elderly and much more!



Superior Science: Learning about science and making goop.



Discovering our past at the Department of Anthropology's table.



DISPLAYS



Dr. Nancy Luckai, Natural Resources Management, talks to the public about natural resources.



Learning about the management of natural resources.



Learning about engineering can be fun!

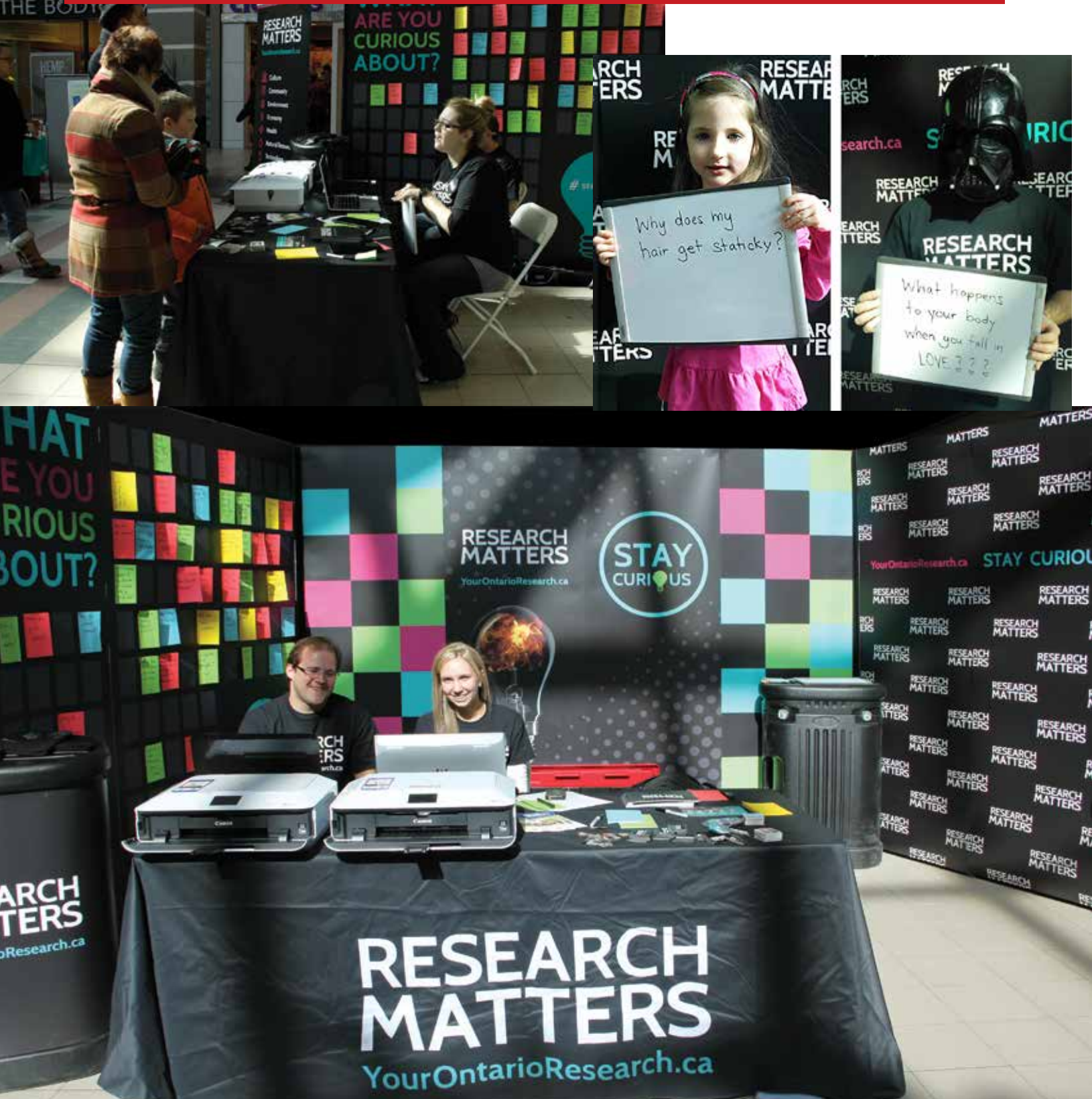


Lakehead Faculty of Engineering students show off their unmanned aerial vehicle.



RESEARCH MATTERS CURIOSITY SHOP

The Curiosity Shop was a traveling pop-up venue that allowed people across the Province to ask questions that would ultimately be answered by researchers at Ontario's 21 universities. During Research and Innovation Week 2014, the public had the opportunity to stop by the Shop when it came to Intercity Shopping Centre to submit their questions – about anything they have ever been curious about. The public could also submit via the Research Matters website and through YouTube, Instagram, Facebook or Twitter.



RESEARCH MATTERS: WHAT MATTERS NOW THUNDER BAY?

Research Matters: What Matters Now Thunder Bay was held on March 4 at Fort William Historical Park. This was part of a province-wide discussion series featuring researchers from Ontario's universities. The Thunder Bay event was moderated by Piya Chattopadhyay and webcast live.

Dr. April James (Nipissing University) asked the audience to consider "Has Ontario reached a watershed moment?"

Dr. Peggy Smith (Lakehead University) focused on answering "What is the way forward for Aboriginal peoples and natural resources?"

Dr. Maria DeRosa (Carleton University) asked the question "Can nanotechnology help feed the world?"

Dr. Kate Hartman (OCAD University) raised the question "What kind of microprocessor are you wearing?"

Dr. Ross McKittrick (University of Guelph) asked the audience "Can economic growth and environmental protection go hand in hand?"



Dr. April James
Nipissing
University



Dr. Peggy Smith
Lakehead
University



Dr. Maria DeRosa
Carleton University



Dr. Kate Hartman
OCAD University



Dr. Ross McKittrick
University of
Guelph



The stars of the show: From left to right: Moderator - Piya Chattopadhyay Dr. Kate Hartman (OCAD University), Dr. Peggy Smith (Lakehead University), Dr. April James (Nipissing University), Dr. Maria DeRosa (Carleton University), Dr. Ross McKittrick (University of Guelph).

RESEARCH MATTERS CONT...



A big audience was on hand at Fort William Historical Park.



The questions and discussions did not end with the conclusion of the presentations.



Dr. Ross McKittrick (University of Guelph) chats with a member of the audience after the session.



After the presentations, the audience had an opportunity to pose their questions to the experts.

GUEST SPEAKERS



Dr. Ronald Pearlman, Associate Science Director of the Gairdner Foundation, introduced special speaker, Dr. Michael W. Salter, Distinguished keynote speaker from the Gairdner Foundation.



Earl Miller, Director of Strategic Partnerships at MaRS Discovery District, discussed *The Power of Partnerships* at the EDI Breakfast.



Dr. Isabelle Lemée, Department of Languages, spoke about the *Acquisition of French by Northwestern Learners*.



Guest speaker Joseph Boyden spoke on *"The Past and The Future are Present": Race Relations in Canada*.

Research Innovation
Lakehead University
March 7, 2014

Faculty of Social Sciences and Humanities Speaker Series

The PAST and THE FUTURE are PRESENT: RACE RELATIONS IN CANADA
Presentation by JOSEPH BOYDEN

When the Europeans first arrived in Canada on Turtle Island, they brought with them their ways, their traditions, and their customs – and a determination to “civilize” those who already inhabited the land.

Drawing on research he conducted for his latest novel *The Orenda*, Joseph Boyden will discuss his findings, highlighting race relations at the time of contact and why these issues continue to be relevant today and into the future.

Winner of the 2008 Giller Prize

THE ORENDA
JOSEPH BOYDEN

Wednesday March 5
Location: UC 1017
Time: 7:00 pm to 9:00 pm
www.lakeheadu.ca/ri

Lakehead UNIVERSITY

GUEST SPEAKERS

Research Innovation Week
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2012 Lakehead University SSHRC **DISTINGUISHED RESEARCHER** presentation by Dr. Sonja Grover, Faculty of Education.

The TORTURE of CHILDREN as WAR STRATEGY in SYRIA



Presentation by **DR. SONJA GROVER**

The planned systematic torture of children by State and non-State forces during contemporary armed conflicts has become all too commonplace yet the international community has largely ignored this phenomenon.

Dr. Grover will be discussing the legal concept of torture under international law and presenting evidence of the specific targeting of children for torture in the ongoing Syrian armed conflict. Also addressed will be what steps academics can take in contributing to the movement to stop this atrocity.

Wednesday March 5
 Location: ATAC 5036
 Time: 3:30 pm to 4:30 pm

www.lakeheadu.ca/ri


Dr. Sonja Grover, Faculty of Education, Lakehead University, (2012 Lakehead University SSHRC Distinguished Researcher), speaks on the issue of *The Torture of Children as War Strategy in Syria: A Violation of Jus Cogens International Law*.



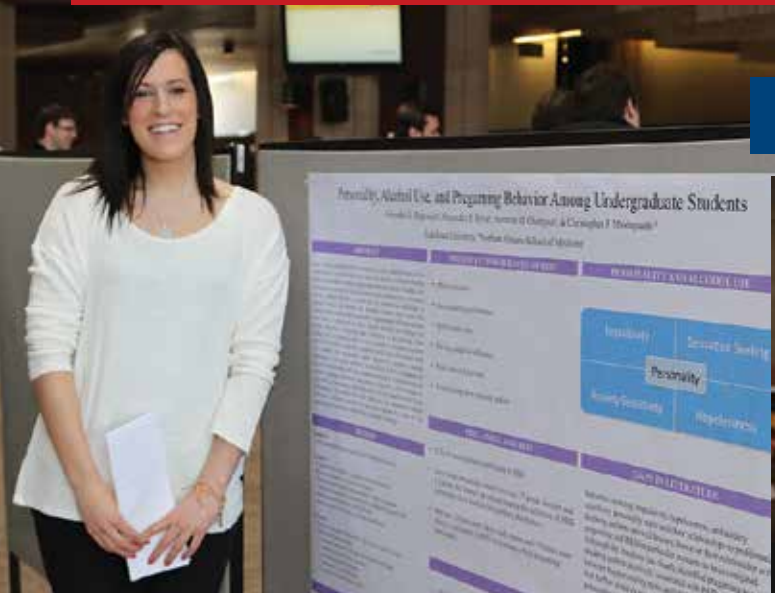
Dr. Hendrik Poinar, Canada Research Chair in Paleogenetics, (McMaster University) talked about the Black Death.



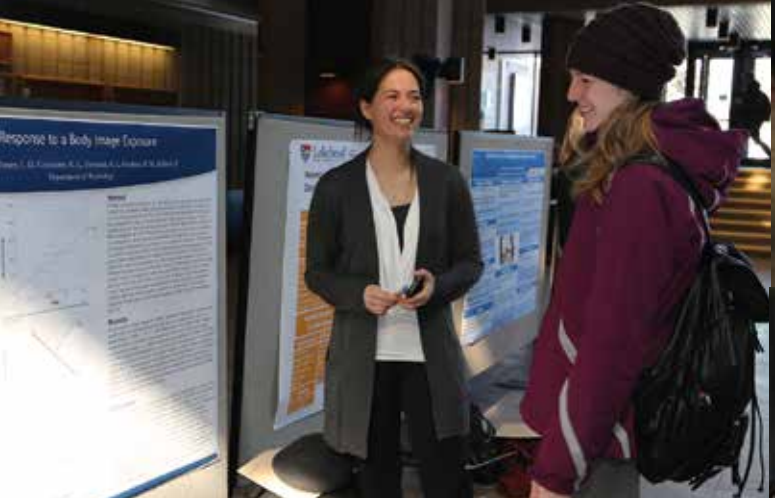
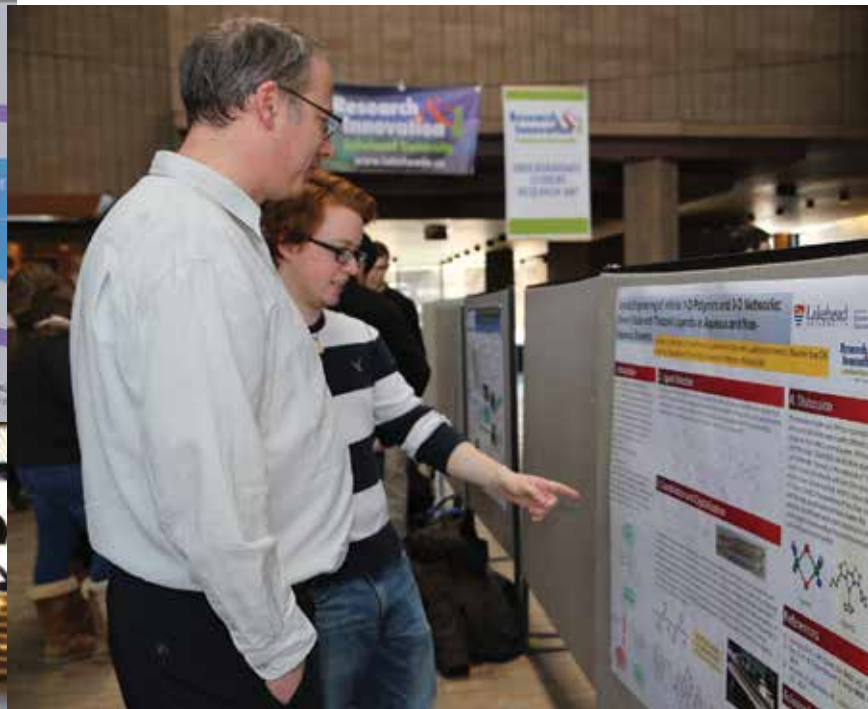
Lakehead University 2012 NSERC Distinguished Researcher Presentation by Dr. Aicheng Chen, (CRC in Materials and Environmental Chemistry) discussed *Design of Functional Nanomaterials for Green Chemistry Applications* with the audience.

UNDERGRADUATE STUDENT RESEARCH DAY

In order to highlight the large amount of quality research performed by undergraduate students, the inaugural Undergraduate Research Day was held in March during Research and Innovation Week. The event included both poster and oral presentations.



Poster presentations were held in the Agora.



Undergraduate students also had the option of presenting their research to their peers in the form of oral presentations.

GRADUATE STUDENT CONFERENCE/POSTDOCTORAL FELLOWS POSTER COMPETITION

GRADUATE STUDENT CONFERENCE

Students from all graduate programs were invited to present their research and compete with their program colleagues in either oral or poster presentation format. Winners of program-specific oral presentations and program-specific poster presentations advanced to Best-of-the-Best Poster and Best-of-the-Best Oral Presentations.

POSTDOCTORAL FELLOWS POSTER COMPETITION

This was an opportunity to learn about some of the fascinating research being undertaken by various postdoctoral fellows at Lakehead University through poster presentations.

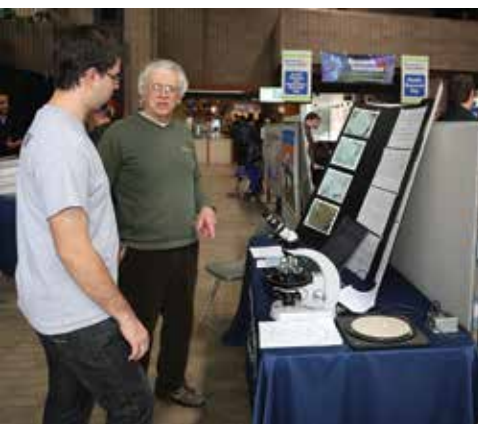


Dr. Umed Panu, Associate Vice-President (REDI), with Drs. Maduraiveeran Govindhan and Wentao Sui, two of the winners of the Emerging Scientist Award (postdoctoral fellow poster competition).



FACULTY RESEARCH DAY

Faculty Research Day offered an opportunity to learn about some of the fascinating research being undertaken at Lakehead University by our faculty. Poster displays showcasing fascinating research were set-up in the Lakehead University Agora.



AWARDS RECEPTION

RESEARCH AND INNOVATION WEEK 2014 AWARDS

HIGH OUTPUT AND PUBLICATION EXCELLENCE AWARD (HOPE)

1. Zaid Altaany, PhD Biotechnology
2. Sapanbir Thind, PhD Chemistry & Materials Science
3. Cassandra Ostrom, MSc Chemistry

GRADUATE STUDENT CONFERENCE BEST-OF-THE-BEST AWARDS

ORAL PRESENTATION, BEST-OF-THE-BEST

Robert Jackson, PhD Biotechnology

POSTER PRESENTATION, BEST-OF-THE-BEST

Nadiya Dragneva, PhD Biotechnology

EMERGING SCIENTIST (POSTDOCTORAL FELLOWS POSTER) AWARDS

1. Maduraiveeran Govindhan, PhD
2. Wentao Sui, PhD
3. Lana Ozen, PhD

LAKEHEAD UNIVERSITY INNOVATION AWARD

Sapanbir S. Thind, Department of Chemistry

BUILDING RESEARCH CAPACITY AWARD - 2013

Dr. Chander Shahi, Faculty of Natural Resources Management

NEW CANADA RESEARCH CHAIR APPOINTMENT

Dr. Pauline Sameshima, Chair in Arts Integrated Studies, Faculty of Education

SENATE RESEARCH COMMITTEE -CONTRIBUTIONS TO RESEARCH AWARD

Dr. Christopher Parkes, Department of English

NSERC DISTINGUISHED RESEARCHER AWARD - 2013

Dr. Han Chen, Faculty of Natural Resources Management



Dr. Hicks presents Nadiya Dragneva with the Graduate Student Conference Award (Poster Presentation).



Ellen Maceyovski, Technology Transfer Officer, EDI Office, presents Sapanbir S. Thind with the Lakehead University Student Innovation Award.



Tony Bartley presents Dr. Christopher Parkes with the Contributions to Research Award.

Dr. Philip Hicks Dean, Faculty of Graduate Studies, presents Robert Jackson with the Graduate Student Conference Award (Oral Presentation).

Dr. Phillip Hicks presents Zaid Altaany, Sapanbir Thind and Cassandra Ostrom with the High Output and Publication Excellence Award (HOPE).

Dr. Tony Bartley, Chair of the Lakehead University Senate Research Committee, presents Dr. Han Chen, Faculty of Natural Resource Management, with the 2013 NSERC Distinguished Research Award.

ORILLIA



Research and Innovation Week was also a great success at our Orillia campus. Undergraduate student poster displays and presentations were two of the highlights of the week.



HOPE TO SEE YOU NEXT YEAR!



A SPECIAL THANKS TO OUR MEDIA PARTNERS:

- Magic 99.9 and Country 105.3, Thunder Bay
- The Orillia Packet and Times
- The Thunder Bay Chronicle-Journal
- CBC Thunder Bay 88.3 FM
- Sunshine 89.1 FM, Orillia
- NetNewsLedger
- Orillia Today
- Shaw TV Thunder Bay
- Thunder Bay Television
- The Thunder Bay Source
- Rock 94/Thunder 103/91.5 CKPR
- The Walleye Magazine
- Lakehead University Radio 102.7 FM
- The Argus

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INTERCITY
SHOPPING CENTRE
A Place for Everything

Photography: Special thanks to Karen Ramsdale, Ellen Maceyovksi and Kathy Hunt