

Research & Innovation Week

Lakehead University

February 8 -14, 2013



2013

Lakehead
UNIVERSITY

Program of Events

Thunder Bay Campus

► Friday, February 8

Opening Ceremonies

Two new research and innovation pull-up banners were unveiled for Drs. Connie Nelson, School of Social Work and Director of the Food Security Research Network, and Azim Mallik, Department of Biology. Dr. Han Chen's new NSERC Strategic Project Grant funding was announced.

Special Presentation:

Guy Levesque, Director, Programs, Canada Foundation for Innovation: *Canada Foundation for Innovation's activities, plans and priorities.*

► Saturday, February 9

Intercity Shopping Centre

The public joined us at Intercity Shopping Centre to celebrate some of the most intriguing and successful research and innovation initiatives taking place in our City. Through interactive research and innovation displays, the public was able to unfold the mysteries of their ancestry with DNA testing, and also the ancestry/personality traits of their pets! The public also learned about the science of natural resources management, robotics, "Fanfiction" and much more! Free workshops were available on grid gardening, Aboriginal medicine and cooking with locally-grown foods.

Lakehead University Concert featuring Innovative Music Computer Interface was held at Grandview Lodge, led by Dr. Gillian Siddall.

► Monday, February 11

John Longbottom, Smarter Cities Executive of IBM Canada Ltd: *Smart Cities of Tomorrow - Today! Safe neighbourhoods. Quality schools. Affordable housing. Traffic that flows.*

Dr. Christopher Mushquash, Sarah Sinclair, Department of Psychology, Dr. Fred Schmidt, Children's Centre Thunder Bay: *Aboriginal Youth in the Justice System.*

Graduate Studies Conference Day 1 - Oral Presentations
Graduate students presented their research in the form of presentations.

Denise Golden, PhD Candidate Forest Sciences, and Dr. M.A. (Peggy) Smith, Faculty of Natural Resources Management: *"kah-oh-shah-whah-skoh-siig mii-koom": The disappearance of "blue-ice" and the impacts on Nishnawbe Aski Nation people living in Ontario's northern boreal forest.*

Dr. Richard Khoury, Department of Software Engineering, Pritesh Patel, Andrea Warywoda, Cameron Ylimaki, Jong Min Yang, Bachelor of Engineering Program: *What is KinTrol? - Your PC. Your voice. Your hands. All in one.*

► Tuesday, February 12

Graduate Studies Conference - Poster Displays
The Best of the Best presented their research in the form of presentations and posters.

Third Annual Postdoctoral Fellow Poster Competition: Postdoctoral Poster Displays
Lakehead's postdoctoral fellows presented their research to the University community.

Dr. Chris Southcott: Lakehead University Distinguished Researcher Presentation: *Economic and Social Sustainability in Northern Communities.*

Economic Development and Innovation Lunch and Learn Panel Discussion
Commercializing Research Outcomes: What the Heck was I Thinking?

Special Film Presentation:
Robert King: *Hard Time*

Jay Ingram: Faculty of Science and Environmental Studies Speaker Series
Animals are Conscious - What are We Going To Do About It?

► Wednesday, February 13

SSHRC & CIHR Research Day:

Posters and displays of fascinating research being undertaken at Lakehead University by our faculty members and their students in the social sciences, humanities, and health.

Dr. Harvey Lemelin, School of Outdoor Recreation, Parks and Tourism, Dr. M.A. (Peggy) Smith, Faculty of Natural Resources Management, Dr. Connie Nelson, Director of the Food Security Research Network: Community Engaged Research Panel

Lessons Learned from Community-Engaged Research.

Robert King: *From Civil Rights to Social Justice: An Activist's Journey.*

► Thursday, February 14

NSERC & CIHR Research Day:

Posters and displays of fascinating research being undertaken at Lakehead University by our faculty members and their students in the natural sciences, engineering, and health.

Ontario Centres of Excellence Information Session

John Fielding, Regional Director, Business Development, Richard Worsfold, OCE Business Development Officer.

Dr. Philip A. Marsden: Gairdner Foundation Lecture

A Role for Epigenetics in Cardiovascular Disease.

Research & Innovation Week Awards Reception

Excellence in research and innovation was celebrated as Lakehead University handed out its awards, including the Distinguished Researcher Award and the winners of the graduate student and postdoctoral fellow competitions. The top 10 Research and Innovation Achievements for 2012 were also announced!

Orillia Campus

Community members were encouraged to come out and meet with professors and students to learn about the innovative research projects happening at Lakehead University's Orillia campus.

► Saturday, February 9

Rotary Place, Sports Complex, Orillia
Displays/Hands-On Science as part of Hockey Day in Orillia!

► Sunday, February 10

Georgian Mall, Barrie
Community Information Display: Meet our Researchers!

► Monday, February 11

Opening Ceremonies

Dr. Tim Kaiser - Mme Curie Would Have Felt At Home: An Overview of Research at Lakehead University, Orillia.

Event included Lakehead Orillia's announcement of top 5 Research & Innovation Achievements - Orillia Campus.

Mini-Conference Day 1

Research Presentations

► Tuesday, February 12

Mini-Conference Day 2

Research Presentations

Poster/Research Displays

Dr. Rita Shelton Deverell: *NEVER an Idle Moment: Some Black and Aboriginal Realities.*

► Wednesday, February 13

Mini-Conference Day 3

Research Presentations

► Thursday, February 14

Community Partner Celebration

EDUC 4000 Presentation

Media Coverage

Lakehead University's Office of Media Relations created a variety of materials including media advisories, media releases, communications bulletins and a radio commercial, followed by thorough media relations to raise awareness of Research and Innovation Week 2013 events. These efforts resulted in substantial media coverage from local and regional print, web and broadcast outlets, and increased event attendance by University and surrounding communities.

► PRINT

Articles on the following pages are from the *Chronicle-Journal*, the *Orillia Packet & Times*, *Snap Magazine*, *Campus Connections Newsletter* and *Huronian Business Times*.

► WEB

Friday, February 8, 2013

TBNewsWatch – Jodi Lundmark, University research a boon to the region, Lakehead president Dr. Brian Stevenson says Research conducted at Lakehead University is important for regional economic development.

He helped kick off the 8th annual Research and Innovation Week at Lakehead Friday morning and said the main focus of the weeklong celebration is to help the community understand the importance of the research being conducted at Lakehead.

"It is research that is interesting and important for economic development of the region and for our health and for our future," he said.

Saturday, February 9

TBNewsWatch – Jamie Smith, Taking Off

Research at Lakehead University took to the skies over the weekend. Or, more accurately, the ceiling at Intercity Shopping Centre. The University used the mall to launch its Research and Innovation Week Saturday morning. It featured booths on over 20 research projects being done through the University, complete with interactive displays from one end of the mall to the other.

Wednesday, February 13

TBNewsWatch – Jodi Lundmark, *Hard Time*

Robert King spent 29 years in a six-by-nine foot prison cell, convicted of crimes he didn't commit.

He was wrongfully convicted of a robbery in 1969 and became a member of the Black Panthers while in jail. Three years later he was framed for the death of another inmate and spent the next 29 years in solitary confinement in Angola State Penitentiary in Louisiana.

► BROADCAST

Monday, February 4 to Friday, February 8 – Dr. Rui Wang and Dr. Chris Southcott's commercial aired on Magic FM and the Giant FM.

Monday, February 4 – Dr. Rui Wang was interviewed on Around Town with Fiona Gardner.

(http://globalthunderbay.tbvtv.com/video.aspx?type=at&art_id=25335)

Wednesday, February 6

CBC – Amy Hadley and Lisa Laco, Research and Innovation Week, interview with Dr. Lionel Catalan.

(<http://www.cbc.ca/podcasting/includes/superiormorning.xml>)

Thursday, February 7

CBC – Amy Hadley and Lisa Laco, *Wood is Good*, interview with Dr. Mat Leitch and Dr. Pedram Fatehi.

(<http://www.cbc.ca/podcasting/includes/superiormorning.xml>)

Friday, February 8

CBC – Amy Hadley and Lisa Laco, Research and Innovation Week, interview with Dr. Chris Southcott.

(<http://www.cbc.ca/podcasting/includes/superiormorning.xml>)

Thunder Bay Television – Courtney Rutherford, Research Launch (www.tbnewswatch.com/video/26569/Research-Launch)

Saturday, February 9 Thunder Bay Television – Dennis Ward, Research Awards (www.tbnewswatch.com/Video/26573/Research-Awards-)

Shaw TV interviewed Dr. Rui Wang at the Intercity Shopping Centre.

Wednesday, February 13

Thunder Bay Television – Robert King

(<http://tbnewswatch.com/video/26605/Robert-King>)

Tuesday, February 19

Thunder Bay Television – Jonathan Wilson, King Documentary (www.tbnewswatch.com/video/26643/King-Documentary-)

Shaw Coverage

Shaw interviewed Dr. Lionel Catalan (Concrete Admixtures), NOSM's Dr. Marina Ulanova (Immunology Research), and Dr. Elaine Wiersma (Research on Dementia).

Shaw aired Dr. Judy Iseke's films *How The Spirit Moves*, *A Living History of Métis Families as told by Dorothy Chartrand*, *Grandmothers of the Metis Nation*, *Understanding What Life is About – Storytelling with Tom McCallum*, and a film about the Food Security Research Network.

► ORILLIA

Media: Promotion, Coverage and Follow-up

January 31

Sunshine Radio (Orillia) Interview with Kathy Hunt

February

Campus Connection Newsletter

February 1

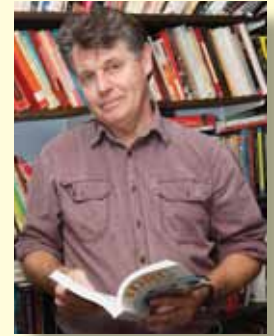
Orillia Packet & Times, Friday, "Global Vision for Orillia's Lakehead University"

<http://www.orilliapacket.com/2013/02/01/global-vision-for-orillias-lakehead-university>



Researcher and Filmmaker

Dr. Ron Harpelle, Department of History, uses the medium of film to disseminate his innovative research to the world. Harpelle is an accomplished historian and documentary film maker having told several stories in his films. In the film "Hard Time," Harpelle tells the story of Robert King, a man sent to the Angola State Penitentiary in Louisiana for 31 years (much of it in solitary confinement) for a crime he did not commit. During Research and Innovation Week 2013, the University community and the public was able to view Harpelle's film and also meet the man behind the story, Robert King.



THE CHRONICLE-JOURNAL Tuesday, February 12, 2013

Robert King's life in Louisiana's notorious Angola Prison is the subject of the documentary *Hard Time*.

Documentary follows ex-convict

BY CARL CLUTCHERY
NORTH SHORE BUREAU

If Robert King hasn't spent three decades of his life as a prisoner in one of Louisiana's notorious hell-holes, it seems sure he would have become a great politician, a professional boxer, or a prolific writer.

The charismatic 76-year-old King — who really does make assets — is to be in Thunder Bay this week to talk about his time in Angola, Louisiana's state prison, as well as his new life as an internationally-known advocate for the rights of prisoners.

King, who grew up in New Orleans, first went to Angola when he was 18 on a robbery charge. As a young man, he was in and out of prison, escaping once, until 1972, when his life in solitary began. The following year he was wrongfully convicted in the death of a fellow prisoner. (At the trial, he had been bound and gagged.)

King's conviction in the prisoner's death was eventually overturned and he was released from Angola in 2001. Authorities had also tried to link him to the 1972 death of a 23-year-old Angola prison guard.

In 2008, King wrote a book about his experience.

Though King's life as a prisoners' rights advocate and Angola Black Panther Party chapter co-founder has been featured in films and news programs like CNN and the BBC, his

Thunder Bay's Ron Harpelle

Thunder Bay film-maker Ron Harpelle.

"When you meet someone like this, you know you've struck gold," Harpelle said Sunday. "He's very eloquent, not just because of where he's from, but in his particular use of language."

Harpelle, who juggles film-making with his day job as a Lakehead University history professor, got the idea to contact King about four years ago, while he was working on a previous documentary about the history of the use of barbed wire in confinement.

"He told me he couldn't help me there, because all he'd seen were steel bars and concrete walls," Harpelle recalled.

King did agree to meet, however. As luck would have it, his Austin, Texas, home was fairly close to the

University of Texas where Harpelle needed to go to conduct research.

Harpelle interviewed King in Austin, and followed him around with a camera as King went to his public-speaking events.

For this Harpelle credits government-funded agencies like the Ontario Arts Council, which makes most Canadian-made documentaries possible.

"If you're going to make a quality film, you have to hire (professionals)," said Harpelle.

Conditions at Angola during King's time were brutal, making it seem nothing short of a miracle that someone could emerge from that experience with the wherewithal to pursue a useful life.

"It was a nightmare," King recalls in Harpelle's film, *Hard Time*.

"Sometimes my soul still cries from what I witnessed and endured. It takes very scrap of humanity to stay focused and sane in that environment. I should be anything but what I am today, but sometimes the spirit is stronger than the circumstances."

Said Harpelle: "For (black) people like King, the era of slavery never ended. It was just moved into the prison system."

A free screening of Harpelle's documentary about King is to take place tonight at LU's University Centre at 1 p.m.

King is to appear Wednesday at Waverley Resource Library at 1 p.m., and at the University Centre of



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Lakehead University
February 8-14

RON HARPELLE'S
HARD TIME - a documentary about **ROBERT KING** will be presented at **LAKEHEAD UNIVERSITY** on Tues. February 12, 1:00-2:30 in UC2011

ROBERT KING will be making a public presentation entitled **FROM CIVIL RIGHTS TO SOCIAL JUSTICE: AN ACTIVIST'S JOURNEY** at **LAKEHEAD UNIVERSITY** on February 13, at 7:00 pm in UC1017

When Robert King was sent to the Angola State Penitentiary in Louisiana for the first time for a crime he did not commit, he learned that second time for a crime he did not commit, he knew that he had to resist his detention. And resist he did.

Book reading by Robert King, author of **FROM THE BOTTOM OF THE HEAP** at the **WAVERLEY LIBRARY** on February 13, 1:00 pm.

HELP CELEBRATE BLACK HISTORY MONTH
Free admission & refreshments
Free parking for LU (2500 Hwy 170) & campus wide for arrival/departures
Donations to LUSU food bank appreciated

Faculty of Arts, Department of History, AFCSA, Thunder Bay Public Library, Canadian Humanities Council and Lakehead University Alumni Association

Lakehead UNIVERSITY

▲ Civil Rights Activist Robert King talks about his experiences behind bars for a crime he did not commit.

Science and Environmental Studies Speaker Series

This year's Faculty of Science and Environmental Studies Speaker Series presenter, Jay Ingram, asked the question: "Animals are Conscious - What are We Going To Do About It?"

Your pet might have conscious awareness

NORTHWEST BUREAU

Science broadcaster and writer Jay Ingram was a big part of Lakehead University's Research and Innovation Week.

On Tuesday evening, Ingram spoke about animal consciousness in a presentation called *Animals are Conscious — What are We Going To Do About It?*

He did a brief introduction to the study of consciousness, including what it is and how it manifests, specifically birds "because they as a group have been revealed to have mental abilities that are beyond what anyone thought they had," Ingram said in an email to *The Chronicle-Journal*.

Recent scientific data suggests many animals may possess some sort of conscious awareness.

Lakehead's Research and Innovation Week, which ended Thursday, was a celebration of the university's students, researchers and research projects.

"Ingram is very good at looking at science in a new way," Andrew Dean, dean of the Faculty of Science and Environmental Science, said in a news release.

Ingram's presentation was followed by a signing of his latest book *Fatal Flaws*.



Science broadcaster and writer Jay Ingram says birds have mental abilities that are beyond what anyone thought they had.

2013
Research & Innovation Week
Lakehead University
February 8 - 14

Faculty of Science and Environmental Studies
Speakers Series

Jay Ingram

Animals are Conscious ... What are We Going To Do About It?

An abundance of recent scientific data suggests that many animals beyond the usual suspects (great apes, dolphins) have some sort of conscious awareness. We have by and large denied this in the past. If we accept it now, what does that mean for how we treat them?

One of Canada's best known and most popular science personalities, Ingram was co-host of *Daily Planet* - Canada's favorite science show - for 16 years. A prolific author, Ingram has written 12 books - most recently, *Fatal Flaws* - and three titles have won Canadian Science Writers Awards. In 2010, Ingram was appointed as a member to the Order of Canada for a lifetime of renowned service in communications - CTV Discovery Channel.

Tuesday, February 12
7:30 pm
Teleconference to
Orillia OA1033

Lakehead
UNIVERSITY



Innovators honoured

BY KAREN MCKINLEY
THE CHRONICLE-JOURNAL

Many innovations and breakthroughs have come from Lakehead University and the institution has been celebrating them with a week dedicated to highlighting them.

Research and Innovation Week was capped off with the inaugural Top 10 Research and Innovation Achievements along with the annual Distinguished Researchers of the Year Awards. The award presentations, held Thursday at the university's cafeteria, highlighted an array of projects, from food security and development in the Arctic, to aboriginal studies and palliative care.

"This is the time to celebrate our excellence in research and innovation," Rui Wang, vice-president, research, economic development and innovation, said in an interview.

"Our researchers and our students work so hard for creating new knowledge to boost our economy, to bring our new knowledge into the market and to create jobs, to better our lives. All they do deserves celebration... we cheer for our researchers and students, provide support and hope we can do better together."

All of the Top 10 achievements were chosen by the university community, he said.

Many of the researchers have won national recognition and previous awards. This is an added celebration to show the university's appreciation and highlight the institution's own achievements.

The university also honoured the 2012 Distinguished Researchers of the Year.

Sonja Grover, a professor in the faculty of education, was one of two researchers the university saluted for her efforts in the promotion of children's basic legal and other fundamental human rights internationally.

Grover's research focuses on international humanitarian, human rights and criminal law, specifically on children's fundamental human rights and child rights advocacy. She has published 11 single-authored books, 85 refereed journal articles, and several book chapters. Grover has presented her work at vari-



PHOTOS BY THE C-J/BRENT LINTON

Prof. Sonja Grover was joined by her daughter Angie Janczyk and grandson David after receiving a distinguished researcher of the year award during a ceremony Thursday at Lakehead University.

ous international conferences including UNESCO.

Her latest book, *Humanity's Children: ICC Jurisprudence and the Failure to Address the Genocidal Forcible Transfer of Children*, critiques the International Criminal Court's failure to prosecute the offence of genocidal forcible transfer of children as child soldiers to armed forces perpetrating mass atrocity.

"It's a tremendous honour and I feel very gratified that the social significance of my work has been recognized by the Lakehead University community," she said.

She said the most rewarding part of her work is knowing her research is being used by frontline workers to advocate for vulnerable children.

An alumni of Lakehead University, she said she joined the faculty because she considers the university her home and an exciting, inventive place to be.

Aicheng Chen, chemistry professor and Canada research chair in material and environmental chemistry, is the other distinguished researcher of the year.



Prof. Aicheng Chen also received a distinguished researcher of the year Thursday.

His interests are in electrochemistry, biosensors, green chemistry, materials science and nanotechnology. With strong support from NSERC, CFI, FedNor, the Ontario Research Fund and industry partners, Chen established an advanced electrochemistry laboratory.

Over the past 10 years, he has supervised/co-supervised more than 60 undergraduate and graduate students, postdoctoral fellows and research associates.

"I'm very excited. It's a great honour this prestigious award," he said.

Among his greatest achievements, he said, is working with a great number of talented students and research fellows. They have made progress in developing a biosensor that will have medical and environmental applications, he said.

"In the future, we are working with partners from the pulp and paper industry to solve problems they are facing," he added.

Chen has published six book chapters and more than 120 peer-reviewed journal articles; he has authored more than 70 industrial reports and filed two patents.

◀ The Distinguished Researcher Award is the highest honour conferred by Lakehead University for research and scholarly activity. At the 2013 R&I Week Reception, two of our many outstanding researchers were honoured: Dr. Sonja Grover, Faculty of Education, was named SSHRC Distinguished Researcher for 2012, while Dr. Aicheng Chen, Canada Research Chair in Materials and Environmental Chemistry, Department of Chemistry, was named NSERC Distinguished Researcher for 2012.

▶ Research and Innovation Week 2013 opened with the announcement of new funding:

Dr. Han Chen, with co-applicants Drs. Jian Wang and Chander Shahi, (Lakehead), Drs. Sean Thomas and Nathan Basiliko (University of Toronto) and partners (Ministry of Natural Resources, Natural Resources Canada, and Resolute Forest Products) was a recipient of an NSERC Strategic Research Grant valued at \$620,761 to undertake a collaborative project titled, "Biomass harvests in boreal forests: minimizing environmental impacts and maximizing benefits."

Grant to help explore biomass harvesting

NORTHWEST BUREAU

A Lakehead University research project on biomass has received a Canada strategic project grant worth \$620,761 over three years.

Han Chen, Lakehead professor in Natural Resources Management, and co-applicants Jian Wang and Chander Shahi, will examine ways to minimize the environmental impact of biomass harvesting and maximize economic opportunities.

"Without funding it's nearly impossible to do research such as this," Chen said Friday in a news release.

Over the next three years, Chen will work with his research partners and at least a dozen students in the boreal forest north of Thunder Bay. The project will also receive help from

University of Toronto's Sean Thomas and Nathan Basiliko, Resolute Forest Products, the Ministry of Natural Resources, and Natural Resources Canada.

The Natural Sciences and Engineering Research Council grant was announced Friday at McGill University.

"This research funding could not come at a better time — with Lakehead University actively engaged in sustainable bioenergy and biorefining research," said Rui Wang, vice-president of Research, Economic Development and Innovation.

Biomass harvesting uses the tops and limbs of trees, as well as small diameter trees, felled by regular tree harvesting to produce bioenergy and biochemical products.

Bringing Research to the Community

► Dr. Gillian Siddall, Dean of the Faculty of Social Sciences and Humanities, and Professor Lise Vaugeois, lecturer, in the Faculty of Education, led a concert at Grandview Lodge featuring an innovative computer application called Adaptive Use Musical Instruments (AUMI). AUMI is a non-invasive software interface originally designed to accommodate children with moderate to severe impairments stemming from conditions such as cerebral palsy. The interface uses computer camera tracking technology to enable people with little voluntary mobility to create and perform electronic sounds and sequences, in order to participate in solo and ensemble music improvisation and composition.



Mixing it up

Ashlind Hill, 6, of Five Mile School, mixes some silly putty with the superior Science group on Saturday. Many hands-on, interactive exhibits were highlighted at Intercity Shopping Centre in Thunder Bay during Lakehead University's Research and Innovation Week.



PHOTOS BY THE CHRONICLE-JOURNAL/SANDI KRASOWSKI

Music system in action

The Adaptive Use Musical Instrument, which was developed in New York City for children with cerebral palsy, is a program that help integrate them into the world of music in a way that was physically possible. The system involves a computer where the onboard camera tracks the movement of the user and triggers sound samples to make music. Research partners across North America, including Thunder Bay, developed the system as part of a larger research project called Improvisation, Community and Social Practice. The first performance of the program at Grandview Lodge retirement home in Thunder Bay involved seniors, and was hosted by lead researcher Gillian Siddall, dean of social science and humanities at Lakehead University, in conjunction with the Community Arts and Heritage Program and members of the Thunder Bay Symphony Or-

chestra. The program can be downloaded for free by visiting deeplisten.org.

TOP PHOTO: From right, Grandview Lodge residents Winifred Lundstrom, Olive Seargen, Sigrid Roberts and Cheryl Arnold play along with violinist Lorrina Belluz, music teacher and owner of Make Some Noise Music Studio.

BOTTOM LEFT PHOTO: Grandview Lodge resident Dorothy Scherban makes music with shakers.

BOTTOM RIGHT PHOTO: Lakehead University's Lise Vaugeois plays the guitar with Grandview Lodge resident Dennis Wabasse while keeping time on a computer.



THE CHRONICLE-JOURNAL/TIMOTHY SHERRIN

Carney Macdonald, left, and Chavance Juvette, from Lakehead University's Department of Anthropology, display skulls illustrating human evolution as part of the university's Innovation Week. Exhibitions and workshops will take place today at Intercity Shopping Centre, where people of all ages can interact with researchers from 9:30 a.m. to 6 p.m. Presentations will also take place at the university throughout the week. Visit www.lakehead.ca/researchweek for a complete event schedule.

University touts research talent

THE CHRONICLE-JOURNAL

Lakehead University is celebrating its researchers this week.

The institute's annual Innovation Week kicked off on Friday. The next several days will feature events aimed at illustrating the kind of work Lakehead researchers are doing and how the university's vice-president of research, economic development and innovation,

"I like to see these words to emphasize the purpose of (Innovation Week)," Wang said. "They are celebration, awareness, and networking."

"The first part is really to celebrate ... the discoveries made at Lakehead, to celebrate our partnerships, to celebrate our community support," he said. "The second part is promotion. We want to increase the public's awareness of what Lakehead University has achieved, and

why it matters ... in our daily life, in our economic development, in our job creation, in our health."

"The last part is really to maintain strengthening our network with all stakeholders." Highlights include exhibitions and workshops at Intercity Shopping Centre today from 9:30 a.m. to 6 p.m., and a presentation by USM's John Langhorne, who will talk about cities on Monday.

Other features include a discussion with Robert King, an investor who netted more than \$6 million in 2011 before being incarcerated. Local filmmaker Ben Harpell will screen a documentary he made about King over Friday. A presentation by science broadcaster and writer Jay Ingram will take place on Tuesday.

Related story/AS

Opening Ceremonies - Thunder Bay Campus

Lakehead University kicked off its eighth annual Research and Innovation Week on Friday, February 8, 2013 with the announcement of an NSERC Strategic Research Grant valued at \$620,761 awarded to Dr. Han Chen, Faculty of Natural Resources Management and his research team. The project was titled “Biomass harvests in boreal forests: minimizing environmental impacts and maximizing benefits.” The opening ceremonies also saw the unveiling of two new research banners in honour of the research of Dr. Connie Nelson, Food Security Research Network, and School of Social Work and Dr. Azim Mallik, Department of Biology.



▲ Dr. Rui Wang, Vice-President (Research, Economic Development and Innovation) officially opens Research and Innovation Week 2013.



▲ Dr. Brian Stevenson, President of Lakehead University, speaks at the opening ceremonies.



▲ Dr. Han Chen, Faculty of Natural Resources Management, speaks about the new NSERC Strategic Project Grant awarded to his team.



▲ Dr. Brian Stevenson with special guest Guy Levesque, Director, Programs, Canada Foundation for Innovation.



▲ Dr. Umed Panu, Associate Vice-President (Research, Economic Development and Innovation) unveils Dr. Connie Nelson's (Food Security Research Network) new Research and Innovation banner.



▲ Dr. Azim Mallik, Department of Biology, addresses the audience after the unveiling of his Research and Innovation banner.

Intercity Shopping Centre

The citizens of the City of Thunder Bay came to Intercity Shopping Centre on February 9, 2013 to celebrate some of the most intriguing and successful research and innovation initiatives taking place in our City. Members of the public experienced interactive research and innovation displays, and took part in free workshops on grid gardening, Aboriginal medicine and cooking with locally-grown foods.



2013 Research & Innovation Week
Lakehead University
February 8 - 14

Intercity Shopping Centre Research & Innovation Fair
Saturday Feb 9, 2013
9:30 am to 6 pm

Visit interactive displays:

- making goop with Superior Science
- Aboriginal medicine
- DNA - ancestry testing, dog breed identification
- the Formula SAE® race car
- Bridge building competition
- music software for people with limited mobility
- anthropological artifacts
- how biological rhythms affect your life
- natural resources management
- Community Workshops
- Grid Gardening - 12 noon
- Aboriginal herbal medicine - 1:30 pm
- Cooking with local foods - 3:00 pm

DISCOVER ANYTHING NEW LATELY?


Campus
Friday Feb. 8 to Thursday Feb. 14 presentations, student and faculty poster displays, and films
www.lakeheadu.ca for details

Enter to win a Superior Science Summer Camp experience

Pick up a passport to win great prizes

SPONSORS: BIRDA POWER, Fisher Scientific, SHAW, Thunder Bay Medical Research Institute, BIO-RAD, CEDARLANE, Lakehead University

lakeheadu.ca/researchweek

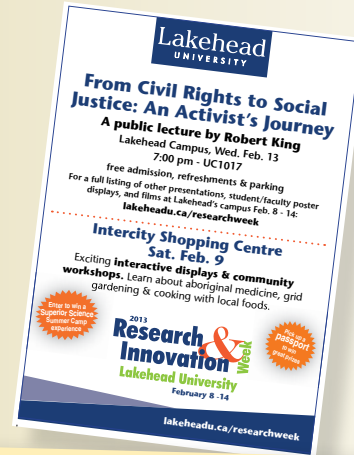


Lakehead UNIVERSITY
co-host of Daily Planet

Jay Ingram
LAKEHEAD CAMPUS
Tuesday, February 12
Animals are Conscious ... What are We Going To Do About It?
7:30 pm - ATAC 1003
free admission, refreshments & parking

INTERCITY SHOPPING CENTRE
Saturday, February 9
Exciting interactive displays featuring race car, robots & community workshops about gardening, aboriginal medicine & cooking with local foods.
For details about other presentations, student/faculty poster displays, and films at Lakehead's campus Feb. 8 - 14 go to: lakeheadu.ca/researchweek

2013 Research & Innovation Week
Lakehead University
February 8 - 14



Lakehead UNIVERSITY

From Civil Rights to Social Justice: An Activist's Journey
A public lecture by Robert King
Lakehead Campus, Wed. Feb. 13
7:00 pm - UC1017
free admission, refreshments & parking
For a full listing of other presentations, student/faculty poster displays, and films at Lakehead's campus Feb. 8 - 14: lakeheadu.ca/researchweek

Intercity Shopping Centre
Sat. Feb. 9
Exciting interactive displays & community workshops. Learn about aboriginal medicine, grid gardening & cooking with local foods.

Enter to win a Superior Science Summer Camp experience

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Lakehead University
February 8 - 14

lakeheadu.ca/researchweek



▲ Dr. Brian Stevenson, President of Lakehead University, and Mayor Keith Hobbs, City of Thunder Bay, speak to the audience at the opening of R&I Week activities at Intercity Shopping Centre.



▲ Learning about Anthropology



▲ Lakehead University's "UFO" at Intercity Shopping Centre.

Intercity Shopping Centre (continued)



▲ The public learned about DNA and their ancestry at the Lakehead University Paleo-DNA Lab table.



▲ Dr. Gillian Siddall, Dean, Faculty of Social Sciences and Humanities, teaches young people how to make music.



▲ Electrical Engineering students display their achievements to the public.



▲ Learning about science at Intercity Shopping Centre.



▲ Dr. Mathew Leitch, Faculty of Natural Resources Management, teaches the public about value-added forest products.



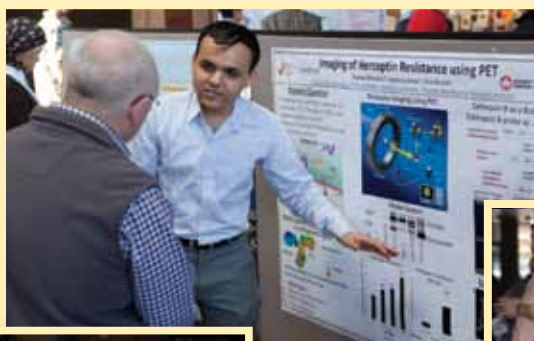
▲ Making a robot move with the sound of your voice.

Annual Graduate Student Conference

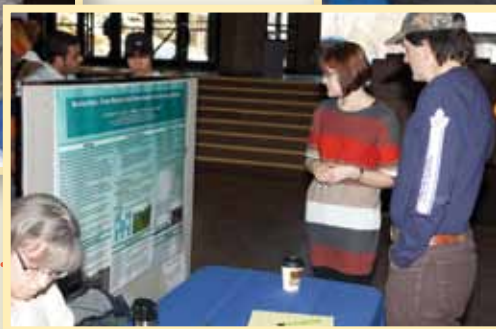
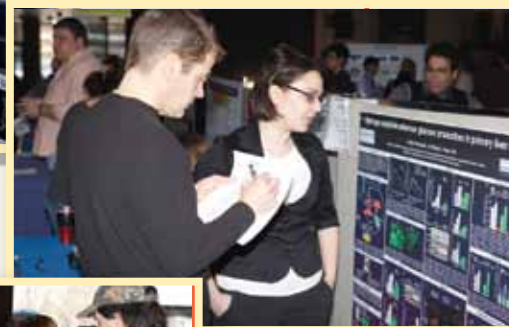
The Graduate Student Conference was an opportunity for Lakehead students to present their research in the form of posters or oral presentations.



▲ Badalkumar Shah, PhD Biotechnology Program, presents at the Graduate Studies Conference.



Graduate Student Conference poster session in the Agora



Graduate Student Conference Winners

Oral Presentation, Best-of-the-Best
Daniel Kremer, MSc, Control Engineering

Poster Presentation, Best-of-the-Best
Ashley Untereiner, PhD, Biotechnology

► Oral Presentation, Best-of-the-Best winner Daniel Kremer, MSc, Control Engineering, with supervisor Dr. Kefu Liu, Department of Mechanical Engineering.



Third Annual Postdoctoral Fellow Poster Competition

During this event, Lakehead's postdoctoral fellows presented their research to the University community through poster displays.



▲ Researchers of the future

Guest Speakers & Special Events

◀ Dr. Chris Southcott, Lakehead University Distinguished Researcher 2011, speaks on "Economic and Social Sustainability in Northern Communities."



▲ Chair of Lakehead Orillia Education Programs, Dr. Michael Hoechsmann, with guest speaker, Dr. Rita Deverell and student, Rebecca Akra-Sarpong.



▲ Dr. Peggy Smith, Natural Resources Management, discusses the disappearance of "blue ice", and its impact on Aboriginal communities.



▲ Gairdner Foundation Lecture: Dr. Philip A. Marsden, University of Toronto, Departmental Division Director in Nephrology, speaks to students at Lakehead University.



▲ John Longbottom, Smarter Cities Executive of IBM Canada Ltd., speaks about "Smart Cities of Tomorrow - Today! Safe neighbourhoods. Quality schools. Affordable housing. Traffic that flows."

2013 Research & Innovation Week
Lakehead University
February 8 - 14

Lessons Learned from Community-Engaged Research

A Panel Discussion with Lakehead Faculty
Dr. Connie Nelson, Dr. Peggy Smith and Dr. Harvey Lemelin

Time: 10:30 am - 12:00 pm
Date: Wednesday, February 13, 2013
Location: Advanced Technology & Academic Centre (ATAC) Building, Rm 5036, Lakehead University, Thunder Bay
Videoconference: Heritage Place (HP) Building, Rm 10026, 1 Colborne St W., Lakehead University, Orillia

Dr. Connie Nelson is a Professor in the School of Social Work, Faculty of Health and Behavioural Sciences.
Dr. Peggy Smith is an Associate Professor in Natural Resources Management.
Dr. Harvey Lemelin is an Associate Professor in the Department of Outdoor Recreation, Parks and Tourism, Faculty of Social Sciences and Humanities.

In this interactive workshop, participants will learn:

- different ways to engage community agencies as active partners in conducting research
- opportunities for research collaboration
- some of the unique challenges and possibilities to community based research

Light refreshments will be served.
Free parking is available in Lot G13 at the Thunder Bay campus.
Orillia-based participants are asked to register by February 8th, 2013 in order to participate in this panel.
Please email **Robert Mizzi** (rmizzi@lakeheadu.ca)
http://research.lakeheadu.ca/research-week/community_engaged_panel.html

Lakehead UNIVERSITY



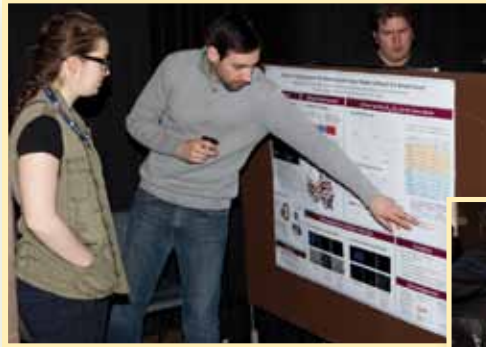
▲ (L to R), Faculty members Dr. M.A. (Peggy) Smith, Dr. Harvey Lemelin, Dr. Connie Nelson, and Moderator Lisa Wabange, participate in the Community Engaged Research Panel.



▲ A discussion takes place at the Economic Development and Innovation Lunch and Learn Panel Discussion: "Commercializing Research Outcomes: What the Heck was I Thinking?"

Displays & Other Special Events

SSHRC, NSERC, and Health Research Days were an opportunity for the University community to learn about some of the fascinating research being undertaken at Lakehead.



Orillia Poster Displays & Mini-Conference

Lakehead's Orillia campus participated through a variety of events including special speakers, research displays and a three-day mini-conference



◀ Lakehead professor, Dr. Florin Pendea, with Lakehead grad Kristen McLeod: two Orillia Mini-Conference presenters.



▲ Greg Preston, Superintendent of Waste Management for the City of Orillia, worked with Lakehead students (l to r): Michelle Liddell, Candice Darbyshire and Taylor Robertson on a waste diversion research project, showcased at the University's Research & Innovation Week.

Mini-Conference Special Speakers Feb. 11-13

- Biodegradable Solvents for the Extraction of Polycyclic Aromatic Hydrocarbons from Polluted Soil: Kinetic and Thermodynamic Behavior* — Crystal Ferguson & Dr. Thamara Laredo
- Periphyton Dynamics at Lake Couchiching: Influence of Water Depth* — Carly Chantler
- Resource-Based View of Unincorporated Social Economy Organizations* — Dr. Kunle Akingbola
- Teaching and Studying Qualitative Research Methods: An Innovative, Student-Driven Approach* — Dr. Natalya Timoshkina
- Reflections on Building Community Research Capacity in Simcoe County (and Beyond)* — Dr. Kevin Willison
- Serving All Students: Home Schools and Children With Special Needs* — Dr. Katherine Becker
- Rapid Climate Change and Serious Cooling: the Case of Younger Dryas in the North Pacific* — Dr. Florin Pendea
- Spatial Variation in the Colonization of Periphyton: Importance of Edge Effect* — Debbie Balika
- Living Artistically through Arts-Based Research: Connecting Visual Art and Poetic Inquiry* — Jeff Adams
- What is the Anthropology of Development?* — Dr. Neha Gupta
- Historical Rate of Carbon Sequestration and Ecosystem Change in a Subarctic Peatland, James Bay, Canada* — Kristen McLeod
- IQAF: Logical Partitioning of the Internet based on Information Credibility Formalization and Quantification Processes* — Dr. Khalil Abuosba
- Online Social Interaction, Web 2.0 and Social Presence: A Case Study* — Daniel Becker

Awards Reception

At the end of the week, excellence was celebrated as Lakehead handed out its awards related to research and innovation including the Distinguished Researcher Award and the winners of the graduate student and postdoctoral fellows competitions. The top 10 research and innovation achievements for 2012 were also announced!

HIGH OUTPUT AND PUBLICATION EXCELLENCE AWARD (H.O.P-E)

William Dew, PhD Biotechnology
Badalkumar Shah, PhD Biotechnology
Erin Cameron, PhD Educational Studies

GRADUATE STUDENT CONFERENCE

Oral Presentation, Best-of-the-Best
Daniel Kremer, MSc, Control Engineering

Poster Presentation, Best-of-the-Best
Ashley Untereiner, PhD, Biotechnology

EMERGING YOUNG RESEARCH SCIENTIST AWARDS

First Place: Balaji Venkatesagowda
Second Place: Sarathi Mani
Third Place: Kai Yan

ABORIGINAL PARTNERSHIP RESEARCH AWARD FOR 2012

Dr. Scott Hamilton, Department of Anthropology; Jill Taylor-Hollings, Dept. of Anthropology, University of Alberta and Lakehead University; Lac Seul First Nation; Pikangikum First Nation; and Doug Gilmore of Woodland Caribou Provincial Park/Ontario Parks.

LAKEHEAD UNIVERSITY INNOVATION AWARD 2012

Dr. Chris Murray, Department of Interdisciplinary Studies, (Orillia)

BUILDING RESEARCH CAPACITY AWARD FOR 2012

Drs. Alex Lawson, Lisa Korteweg, and Christina van Barneveld Faculty of Education, the Multi-Data Convergence Lab

SENATE RESEARCH COMMITTEE - CONTRIBUTIONS TO RESEARCH AWARD

Dr. Paul Carr, Department of Sociology/Interdisciplinary Studies (Orillia)
Dr. Chander Shahi, Faculty of Natural Resources Management

DISTINGUISHED RESEARCHER AWARDS FOR 2012

SSHRC Distinguished Researcher Award
Dr. Sonja Grover, Faculty of Education

NSERC Distinguished Researcher Award

Dr. Aicheng Chen, Canada Research Chair in Materials and Environmental Chemistry, Department of Chemistry



▲ 2013's Research and Innovation Awards Reception featured speakers, awards, and great food!



▲ Drs. Azim Mallik and Rui Wang present Dr. Sonya Grover, Faculty of Education, with the SSHRC Distinguished Researcher Award for 2012.



▲ Dr. Aicheng Chen, Canada Research Chair in Materials and Environmental Chemistry, Department of Chemistry, winner of the NSERC Distinguished Researcher Award for 2012



▲ Cam Clark, Chair, Lakehead University Board of Governors, says a few words of welcome to open the R&I Week Reception.



▲ Dr. Azim Mallik, Chair of the Lakehead University Senate Research Committee, presents Dr. Chander Shahi, Faculty of Natural Resources Management, with a Contributions to Research Award.

Top 10 Research & Innovation Achievement Awards



Top Ten Recipients for 2012

- Lakehead University ranked #1 for Publishing in Area of Aboriginal Studies.
- Lakehead University ranked among Top 10 Most Inventive Universities in Canada.
- Dr. Aicheng Chen, CRC in Material and Environmental Chemistry, Department of Chemistry, wins 2012 Keith Laidler National Chemistry Award for Contributions to Electrochemistry and Catalysis.
- Dr. Mary Lou Kelley, School of Social Work, receives Queen Elizabeth II Diamond Jubilee Medal and also received the Citizen of Exceptional Achievement Award for palliative care research.
- Food Security Research Network Receives McConnell Foundation Community-Service Learning Award.
- Two New Canada Research Chairs appointed at Lakehead: Dr. Pauline Sameshima, Faculty of Education and Dr. Sudip Rakshit, Faculty of Engineering/BRI.
- Dr. Chris Southcott, Department of Sociology, for a SSHRC Award of \$2.5M MCRI grant for *Resources & Sustainable Development in the Arctic (RESDA) Project*.
- NSERC Awards \$1.6M CREATE Grant to Alla Reznik, CRC in the Physics of Molecular Imaging, Department of Physics, and Thunder Bay Regional Research Institute.
- Major \$2.8M NSERC CRD awarded to Ellie Prepas, Natural Resources Mangement, for the *Forward III Project*.
- New CFI-ORF funded SEM installed in Lakehead University Instrumentation Laboratory.

Special thanks to our Sponsors

GOLD



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