



International  
**Minerals Innovation**  
Institute

# ANNUAL REPORT 2014



*Driving the Innovation Agenda  
of a World-Class Minerals Industry*

## *Message from the Acting Board Chair*



2014 was a landmark year for the International Minerals Innovation Institute. IMII developed and the Board approved a Strategic Plan covering the 2014 to 2018 period, an update of the Business Plan used in the creation of IMII. IMII was fully operational as evidenced by the fact that it moved from one Education and Training (E&T) project under contract in 2013 to seven E&T and two Research and Development (R&D) projects being contracted with Saskatchewan institutions in 2014 plus two more R&D projects receiving approval in principle from the Board.

The Board continued the strong cooperative and collaborative leadership that it has exhibited since IMII's creation in 2012, providing oversight and direction to the organization and responding to project recommendations being made by the E&T and R&D Panels.

IMII's Board Chair, Dr. Gordon Barnhart, who ably facilitated IMII Board processes and lead the development of its governance documents in its formative years, left at the end of May to take on the role of Interim President of the University of Saskatchewan. The Board appointed me to fill the role of Acting Board Chair and to lead the process of deciding on how the Board Chair role should be structured going forward and ultimately who should fill the role. This process, managed by a special committee of the Board and greatly assisted by the consulting firm Board Dynamics, culminated in the selection of Saskatoon business consultant Dwight Percy as the IMII Board Chair beginning in January 2015.

I want to thank the Board of IMII for their support as we moved through this process and wish Dwight every success as IMII moves into its fourth year of operation providing industry-driven solutions to the minerals industry's challenges.

**David Grier, P.Eng.**

Chief Strategist, Innovation Saskatchewan

IMII Board Member and Acting Board Chair, 2014

# *Message from the Executive Director*



For the International Minerals Innovation Institute, 2014 was a year of accelerated accomplishments which enhanced its recognition not only in Saskatchewan, but nationally and internationally. IMII's significant progress in 2014 started demonstrating that IMII is moving closer to the vision of positioning Saskatchewan to be the world's most innovative and efficient minerals jurisdiction.

IMII funding enabled the University of Saskatchewan to start the mining engineering option program through three engineering departments; chemical, mechanical and geological engineering, with the recruitment of three professors in each of these disciplines. 58 students have signed up in the program.

IMII funding enabled Saskatchewan Polytechnic to recruit the director to establish the Centre for Minerals Innovation in Saskatoon. The Centre is in the progress of developing new courses and programs for the minerals industry, while building collaborative working relationships with the regional colleges and industry stakeholders.

IMII funding enabled Northlands College to start building the Mine School and begin several new courses. They have acquired mining equipment simulators and started refurbishing laboratories for enhanced teaching with state of the art methods. They have already graduated 24 students and more are being trained.

IMII funding enabled Cumberland College, Parkland College and Carlton Trail College to begin courses training mostly aboriginal students with 41 students registered to date.

IMII funding enabled a team from the Industrial Psychology Department of the University of Saskatchewan and a team from the Nursing School of Saskatchewan Polytechnic to get together and initiate a collaborative research and development project on "Enhancing Cultures of Safety in the Mining Industry." Agrium, BHP Billiton, Cameco, K+S Potash Canada, Mosaic, and Potash Corp, are funding this project with contributions from the Government of Saskatchewan.

IMII funding enabled the formation of a cross-functional team of three masters students, one postdoc and two research scientists under the leadership of a young professor from the Civil and Geological Engineering Department, University of Saskatchewan, in collaboration with Canadian Light Source to start a research and development project on "Removal of Cationic Salts from Brine Effluent". This was the first project of IMII that qualified for Mitacs funding of more than \$100,000 which was facilitated through the Mitacs Industry Executive in Residence—Minerals, (MIER-Minerals), established in 2014, through collaboration of IMII, University of Saskatchewan and Mitacs.

IMII committed \$6.6 M for these six education & Training and two research & development projects. This investment triggered additional funding of \$4.5 M from other sources. All these projects have been established through formal contracts. During the execution of these projects IMII's E&T and R&D Panels and Steering Committees are monitoring the progress and provide industry guidance.

These are the brief highlights of what we have accomplished in 2014. This could only happen with the constructive engagement, support and commitment of each Board and Panel member, and with the dedicated team at the IMII secretariat. Through collaboration, innovation, and team effort, I believe very strongly, we will reach our goal.

Engin Özberk  
Executive Director and Senior Technical Advisor,  
Mitacs Industry Executive in Residence—Minerals

## *IMII Staff*

Engin Özberk      Executive Director and Senior Technical Advisor, MIER-Minerals  
Shannon Kocay      Senior Administrative Assistant  
Marylou Langridge      Accounting & Communications Coordinator

# *Board of Directors*



Mike Dirham  
Agrium Inc.



Chris Ryder  
BHP Billiton Canada Inc.



Noel Voykin  
Cameco Corporation



Eric Cline  
K+S Potash Canada



Thomas Olson  
Mosaic Potash



Mark Fracchia  
Potash Corp



Lola Piché  
North Rim Exploration Inc.



Trevor Berg  
Saskatchewan Mining Association



Larry Rosia  
Saskatchewan Polytechnic



David Malloy  
University of Regina



Karen Chad  
University of Saskatchewan



David Grier  
Innovation Saskatchewan



Louise Greenberg  
Advanced Education

# *About IMII*

## VISION

IMII will position Saskatchewan to be the world's most innovative and efficient minerals jurisdiction through facilitating innovative education & training and research & development partnerships.

## MISSION

International Minerals Innovation Institute is an industry – government – post-secondary education and research institutions partnership and leader to inform, facilitate, coordinate, and financially support industry-driven research and skill development that will enhance the growth and global competitiveness of Saskatchewan's minerals industry.

## OUR VALUES

IMII is working to close gaps between skills development and state-of-the-art technologies through advanced education and training, and innovative research and development. IMII values:

- **Industry-Driven** focus in everything we do in order to deliver relevant, applied and measurable outcomes;
- **Leadership** from all participants as a catalyst for continuous improvement in safety, minimizing environmental impact, social responsibility, financial prudence and innovation;
- **Collaboration and Partnerships** as a means to leverage resources and accomplish outcomes meeting the requirements of a wide range of stakeholders;
- **Flexibility** from open innovation as an inclusive approach to identify world-class and breakthrough ideas, to tightly controlled intellectual property when needed to enhance the minerals industry's sustainability;
- **Multi-disciplinary solutions** to harness the diverse expertise and experience in Saskatchewan and from around the world; and
- **Accountability** that delivers high-quality, measurable results and minimizes duplication for industry, the post-secondary education sector, research institutes, and the community as a whole.

**Expanding Skills Capacity + Enhancing Innovation Capacity  
= Ensuring Industry Growth and Sustainability**

# *Impact and Value of the Opportunities Being Created*

## *Graduates of the First Three Courses Offered at Northland College Mine School La Ronge, SK*



Underground Miners (7 Graduates)



Radiation Technicians (9 Graduates)

*Diamond Drillers (8 Graduates) – Photo Not Available*

## *Introduction to Mining Parkland College, Fort Qu'Appelle, SK*



East-Central Saskatchewan is home to two major potash companies, Mosaic and PCS, who have a direct impact on the economy. Therefore the college involvement and training potential that can be mobilized to support the preparation and up-skilling of a labor force in this region for the potash companies and the contractors that work with them is essential. IMII has provided the means to expand that training in the Parkland Region that will support individuals, communities, businesses, and of course the future growth of the College.

We believe “Colleges build communities and communities build Colleges.” Our mission statement is that the college is “a catalyst changing lives, communities and industry – one learner at a time.” IMII has provided a vehicle to assist in fulfilling our mission.

Fay Myers, President  
Parkland College

## *Electrical Applied Certificate Training*



Electrician Training Program Students (8)  
Cumberland College

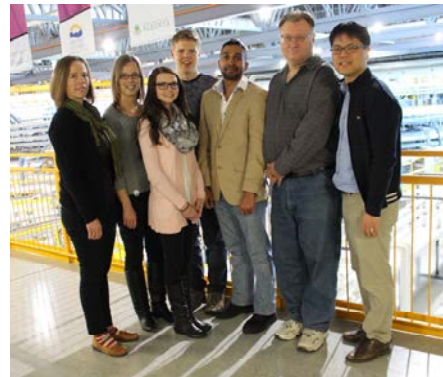


Electrician Training Program Students (13)  
Parkland College

## *Contributing to Training Highly Qualified Personnel*

### Salinity Mitigation Project Team

From left to right: Dr. Joyce McBeth (Canadian Light Source and Dept. of Geological Sciences, U of S), Nicola Harris (MSc student), Ashley Siemens (MSc student), Nick Gibb (MSc student), Dr. Blain Paul (Postdoctoral fellow, Dept. of Civil and Geological Engineering, U of S), Dr. James Dynes (Canadian Light Source), Dr. Won Jae Chang (Dept. of Civil and Geological Engineering, U of S)



Funding through the IMII has provided me with the opportunity to work closely with the mining industry while earning a graduate degree. This will allow my current research to be meaningful for development in the industry as well as make my academic experience relevant to a career with mining companies in the future.

Nicola Harris  
University of Saskatchewan  
MSc Student - Civil Engineering

## *Mining Engineering Options – College of Engineering*

The College of Engineering remains committed to their vision of developing opportunities for students to receive training related to the mining industry and being known for their industry relevance. The agreement signed with IMII allows the college to take steps to ensure courses, equipment, faculty, and other resources are in place to support their mining related initiatives.

In December 2014, three mining engineering options in geological, chemical and mechanical disciplines, each with a minimum of six courses, were approved by the university and added to the 2015-16 course and program catalogue. Topics include mine ventilation, mine design, and drilling, blasting and excavating—all areas requested by industry and important to the graduates for mining careers.

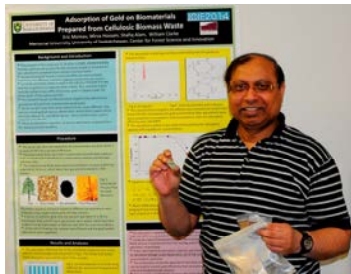
A few of the courses added as part of the Mining Engineering Options are:

- ChE 369 – Fundamentals of Mineral Processing and Hydrometallurgy
- ChE 469 – Industrial Mineral Processing
- GEOE 377 – Introduction to Mining and Mineral Processing Engineering
- GEOE 380 – Mine Ventilation
- GEOE 430 – Drilling, Blasting & Excavation
- GEOE 431 – Mine Design
- ME 490 – Design of Hydraulic Circuits

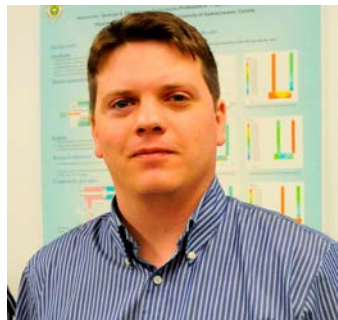
With the support of IMII, the university has hired three new faculty to deliver the mining options:



Dr. Paul Hughes  
Department of Civil & Geological Engineering



Dr. Shafiq Alam  
Department of Chemical & Biological Engineering



Dr. Travis Wiens  
Department of Mechanical Engineering



## *Students as Researchers*

Quotes are from the students participating in the “Enhancing Cultures of Safety and Safety Engagement in the Saskatchewan Mining Industry” IMII R&D project

“How to search databases properly...that’s super useful, and I know I’m going to be using that a lot. I think it just makes a lot of sense to learn that.”

“It would make me a better researcher and better academically because I’ll be more efficient with my time. I’ll be able to pick out the most important information and I feel it’s going to be really useful to me.”

“When I said learning about psychology in general, I was referring to learning a lot about organizations psychology; we don’t have, really, an organizational program here at the U of S. So for me, that was really valuable, just even looking at – in regards to something like safety – the role that risk-taking plays, risk and really getting to delve more into, not only the content like organization psychology, but also the way that it’s applied, and being able to see it applied in studies, that I wouldn’t necessarily be reading into in any other program at this institution. So that was very valuable for me.”

“The summarizing—getting it all onto one page. Because that’s kind of where I struggle, is being concise. So this has definitely forced me to learn that.”

“All of us are probably going in directions where these skills will be invaluable. But also in the short term while finishing my degree and writing my honours, I’ll probably end up employing some of these research strategies, and database searching, which I likely would not have done otherwise.”

“I was really excited about the research methods training, but also wanted to learn more about the content—about organizational psychology, and how we can further safety, what we would do, what we would put together.”

“It’s nice to know that it’s my first time where it’s actually going to mean something, the research I’m doing is actually going to contribute to something. So it was nice knowing that I’m not just doing this for nothing.”

With the support of IMII, we are delighted to have the opportunity to work alongside industry partners, who are renowned as worldwide leaders in safety.

Working collaboratively, we will combine our research and educational expertise with the expertise of the industry so that together we may seek sustainable strategies to further improve and maintain employees’ safety behavior and engagement. We will work closely with industry partners at every step of our project, including visits to every industry partner mine site, as this is the only way to ensure that resulting safety strategies, recommendations, and developments are directly applicable to the Saskatchewan industry and Saskatchewan employees.

Jade Anderson, Research Co-Investigator  
Enhancing Cultures of Safety & Safety Engagement  
in the Saskatchewan Mining Industry

# *Education and Training Panel*

The Education and Training (E&T) panel is designed to build and execute a coordinated and comprehensive education and training strategy that meets the labour requirements of the minerals industry. Comprised of representatives from industry, government and post-secondary education, the panel works to assist IMII in the evaluation of proposals submitted by post-secondary institutions. Proposals are approved by the board on recommendation from the E&T panel and the collaboration helps to minimize duplication and enhances relevancy of the programs.

In 2014, highlights of the panel activities are:

- ⇒ Seven E&T Panel meetings
- ⇒ Six presentations made to the panel
- ⇒ Seven proposals received and reviewed
- ⇒ Six proposals approved for funding
- ⇒ \$4,376,000 in funding approved for 2014

## **FOCUS AREAS**

- ⇒ Qualified and highly qualified people
- ⇒ Entry level labour
- ⇒ Trades workers, journeyperson
- ⇒ People with certificates
  - \* One and two year programs
  - \* Technicians and technologists
- ⇒ Engineers, scientists, specialists



## **PANEL MEMBERS**

- |                                                 |                                |
|-------------------------------------------------|--------------------------------|
| ⇒ Agrium                                        | Gavin Rans                     |
| ⇒ BHP Billiton                                  | Curtis Salewich                |
| ⇒ Cameco Corporation                            | Sean Junor                     |
| ⇒ K+S Potash Canada                             | Maryann Deutscher              |
| ⇒ Mosaic Potash                                 | Kelly Currie                   |
| ⇒ North Rim Exploration                         | Debbie Shewfelt                |
| ⇒ Potash Corp                                   | Aaron Fornwald                 |
| ⇒ Advanced Education                            | Darcy Cherney                  |
| ⇒ Innovation Saskatchewan                       | David Grier                    |
| ⇒ Carlton Trail College                         | Ivan Yackel                    |
| ⇒ Cumberland College                            | Faye McKay                     |
| ⇒ First Nations University of Saskatchewan      | Lynn Wells                     |
| ⇒ North West Regional College                   | Tavia Laliberte                |
| ⇒ Northlands College                            | Toby Greschner and Randy Johns |
| ⇒ Parkland College                              | Fay Myers                      |
| ⇒ Saskatchewan Indian Institute of Technologies | Guy Poncelet                   |
| ⇒ Saskatchewan Literacy Network                 | Karen Rosser                   |
| ⇒ Saskatchewan Mining Association               | Pamela Schwann                 |
| ⇒ Saskatchewan Polytechnic                      | Arnold Boldt                   |
| ⇒ University of Regina                          | Esam Hussein and Daniel Gagnon |
| ⇒ University of Saskatchewan                    | Georges Kipouros               |

# *Education and Training Projects*

## **Project Details**

## **IMII Funding**

### **Saskatchewan Polytechnic – The Centre for Minerals Innovation, Training and Leadership**

**\$500,000**

This project will establish a Director position to develop a comprehensive training program for the minerals industry needs in collaboration with regional colleges with a detailed budget.

The Director has been hired and is currently working with industry and stakeholders to develop the program.

### **Northlands College – Northlands Mine School**

**\$1,841,000**

The funding for this project will enable Northlands to expand their facilities and existing programming to train highly skilled individuals for the minerals industry using state of the art methods and tools.

24 students graduated from Underground Miners, Radiation Technician, and Diamond Driller courses in December, 2014.

### **Parkland College and Carlton Trail College – Introduction to Mining**

**\$431,000**

A collaborative effort of the two Colleges, working with a number of potash mines and aboriginal communities within their two regions, to develop an Aboriginal workforce for entry-level positions in the mines and processing facilities. The Introduction to Mining will prepare the students for a number of specific entry-level positions as well as preparing them for further education in minerals industry related occupations.

The first term of this project will run for 26 weeks from November 24, 2014 to May 29, 2015 at Fort Qu'Appelle, SK, with 20 students registered.

### **Cumberland College – Equipment Funding and Safety Training Funding**

**\$504,000**

This funding will enable the College to purchase equipment for trades training and employ specialized trainers to deliver safety training required by the mining industry.

Construction of training equipment began in late August. Eight students are enrolled in the first Electrician Applied Certificate course.

### **Parkland College – Electrician Training for Mining**

**\$391,700**

Funding for this program will enable the College to provide training consisting of delivery of the Saskatchewan Polytechnic Electrician Applied Certificate Enhanced program to support the mines and sub-contractors in the Esterhazy and Rocanville areas.

The first term of this project is set to run for 30 weeks from December 8, 2014 – July 20, 2015 at Esterhazy, SK, with 13 students registered.

### **Saskatchewan Mining Association – MiHR Labour Study**

**\$77,925**

This project will develop the 2014 Labour Market Forecast and Report to raise awareness of labour market demands of the mining sector.

# *Research and Development Panel*

The Research and Development (R&D) panel establishes priorities and designs project proposals with the consortium of partners, identifies potential resources to carry out the work and makes recommendations to the board.

In 2014, highlights of the panel activities are:

- ⇒ Eight R&D Panel meetings
- ⇒ Eight presentations made to the panel
- ⇒ Three R&D workshops
- ⇒ Fourteen proposals received and reviewed
- ⇒ Two proposals approved for funding
- ⇒ \$1,105,694 in funding approved for 2014

## **FOCUS AREAS**

- ⇒ Automation
- ⇒ Corrosion
- ⇒ Flotation Reagents
- ⇒ Ground Penetrating Radar
- ⇒ Hydrogeology
- ⇒ Instrumentation
- ⇒ Regulatory impacts monitoring
- ⇒ Rock mechanics
- ⇒ Safety
- ⇒ Simulators
- ⇒ Structural and mechanical integrity
- ⇒ Tailings management
- ⇒ Water



## **PANEL MEMBERS**

- |                                            |                          |
|--------------------------------------------|--------------------------|
| ⇒ Agrium                                   | John Sundquest           |
| ⇒ BHP Billiton                             | Joe Gosselin             |
| ⇒ Cameco Corporation                       | Scott Bishop             |
| ⇒ K+S Potash Canada                        | Marcel Mueller-Goldkuhle |
| ⇒ Mosaic Potash                            | Murray Schultz           |
| ⇒ North Rim Exploration                    | Lola Piche               |
| ⇒ Potash Corp                              | Craig Funk               |
| ⇒ Innovation Saskatchewan                  | David Grier              |
| ⇒ Canadian Light Source                    | Jeff Cutler              |
| ⇒ Genome Prairie                           | Chris Barker             |
| ⇒ Prairie Agricultural Machinery Institute | Larry Jorgenson          |
| ⇒ Saskatchewan Literacy Network            | Karen Rosser             |
| ⇒ Saskatchewan Polytechnic                 | Cristina Holguin-Pando   |
| ⇒ Saskatchewan Research Council            | Craig Murray             |
| ⇒ University of Regina                     | Esam Hussein             |
| ⇒ University of Saskatchewan               | Jim Basinger             |

# *Research and Development Projects*

## Project Details

## IMII Funding

### **University of Saskatchewan and Saskatchewan Polytechnic – Enhancing Cultures of Safety and Safety Engagement in the Saskatchewan Mining Industry: A Collaborative and Multi-Disciplinary Inquiry**

**\$786,000**

A study of the safety programs in six participating companies will be reviewed, benchmarked and compared to one another. Once benchmarking is completed, the research team working with the sponsoring companies will develop methods to further improve the safety culture of the communities and their workforce.

The team is led by Dr. Lyle G. Grant, Coordinator of the Institute for Nursing Scholarship at Saskatchewan Polytechnic and Dr. Valery Chirkov, an associate professor at the University of Saskatchewan. They will be assisted by research professionals Jade Anderson, Applied Social Psychology Masters student at the U of S, and Madeline Press, a masters' degree prepared nurse educator at Saskatchewan Polytechnic and a Ph.D. candidate in Educational Administration at the U of S. Trained research assistants from both institutions round out the team.

### **University of Saskatchewan – Salinity Mitigation: Development of Functionalized Clay-Based Reactive Media for Removal of Cationic Salts from Brine Effluent**

**\$365,000**

The research focuses on the development of surface-modified clay-based reactive media that can be used for the remediation of salt-impacted soil and groundwater at operational or abandoned potash mines as well as for the control of brine migration from newly planned or expanded mines.

The research team for the salinity mitigation research has been established. Dr. Won Jae Chang is the Principle Investigator, assisted by scientists Dr. Joyce McBeth and Dr. James Dynes, Master students Ashley Siemens, Nick Gibb, and Nicola Harris and Postdoctoral fellow Blaine Paul.

## ***Growing Momentum: Implementing Industry Driven Projects***

The two IMII panels for Education and Training (E&T) and Research and Development (R&D) are fully operational and have recommended projects to the Board of Directors for funding. As of March 2014, the Board of Directors approved in principle two Research and Development proposals and six Education and Training proposals to join the Mining Option Development Program approved in September of 2012. IMII is also funding the MiHR Study bringing the total funded projects to nine.

<b>Project Title</b>	<b>R&amp;D or E&amp;T</b>	<b>Project Proponent</b>	<b>Total Project Budget</b>	<b>IMII Funding</b>
Development of Mining Engineering Options	E&T	University of Saskatchewan	\$2,100,000	\$1,676,000
Northlands Mine School	E&T	Northlands College La Ronge, SK	\$5,486,000	\$1,841,000
Introduction to Mining	E&T	Parkland College & Carlton Trail College Fort Qu'Appelle, SK	\$800,000	\$431,200
Centre for Minerals Innovation, Training and Technology, Part 1	E&T	Saskatchewan Polytechnic	\$500,000	\$500,000
Purchase Equipment for Trades Training and Specialized Trainers to Deliver Safety Training Required by the Mining Industry	E&T	Cumberland College Nipawin, SK	\$504,000	\$504,000
Electrician Training for Mining	E&T	Parkland College Esterhazy, SK	\$473,900	\$391,700
MiHR Council Custom Labour Market Forecast and Report	E&T	Saskatchewan Mining Association	\$89,925	\$77,925
Salinity Mitigation: Development of Functionalized Clay-Based Reactive Media for Removal of Cationic Salts for Brine Effluent	R&D	University of Saskatchewan Department of Civil & Geological Engineering	\$365,000	\$365,000
Enhancing Cultures of Safety and Safety Engagement in the Saskatchewan Mining Industry: A Collaborative and Multi-Disciplinary Inquiry – Phase One	R&D	Saskatchewan Polytechnic & University of Saskatchewan	\$785,694	\$785,694
<b>TOTAL PROJECT FUNDING COMMITTED</b>			<b>\$11,104,519</b>	<b>\$6,572,519</b>

# *2014 Funding Announcement and Signing Events*

Parkland College and Carlton Trail College Funding Announcement

July 24, 2014



Cumberland College Funding Announcement

September 11, 2014



Saskatchewan Polytechnic Funding Announcement

November 17, 2014



Northlands College Funding Announcement

December 12, 2014



Saskatchewan Polytechnic and University of Saskatchewan Funding Announcement

December 16, 2014



# 2014 Highlights

## EVENTS AND PRESENTATIONS

- ◆ Global Institute Ground Water Workshop
- ◆ Women in Mining/Women in Nuclear (WIM/WIN) Lunch and Learn
- ◆ Western Economics Diversification/ Mitacs Western Innovation Forum
- ◆ 4th Annual Saskatchewan Mining Forum
- ◆ Natural Resources Canada, Innovation-Minerals Outlook Dialog Round Table
- ◆ Conference Board of Canada Saskatchewan Innovation Forum
- ◆ Minister of Natural Resources Canada, Mining Round Table Discussion
- ◆ Energy and Mines Ministers Conference
- ◆ Pacific Basin Nuclear Conference 2014
- ◆ Conservative Party Saskatchewan Caucus, Elk Ridge, Waskesiu
- ◆ Annual Conference of Metallurgists, METSOC 2014
- ◆ Saskatchewan Mining Association Environmental Forum
- ◆ National Mining Innovation Forum, CMIC
- ◆ Natural Resources Canada, Green Mining Workshop
- ◆ Saskatchewan Geological Open House

### Enhancing Safety Project Team

From left to right: Dr. Lyle Grant (Saskatchewan Polytechnic), Madeline Press (Saskatchewan Polytechnic), Jade Anderson (University of Saskatchewan), Chau Ha (Saskatchewan Polytechnic), Dr. Valery Chirkov (University of Saskatchewan). Missing: Angie Gerrard (University of Saskatchewan)

## NATIONAL AND INTERNATIONAL INTERACTION

- ◆ UK Delegation, Trade Development Department, Seeking opportunities to engage in R&D opportunities
- ◆ Competence Centre for Mining Mineral Resources, Canadian German Chamber of Industry and Commerce Inc., Seeking opportunities to engage in R&D
- ◆ Memorial University of St. John's, Helping the Labrador Inuit gain a better understanding of uranium development and value of collaboration
- ◆ Canada-Israel R&D Foundation (CIIRDF) Engage Saskatchewan Research organizations to foster industrial research and commercialization partnerships
- ◆ Greenland Labour Union and Government, Improve their understanding of mining social responsibility and collaborative R&D activities
- ◆ CEA/UKTI Mining Mission, Seeking opportunities for collaboration
- ◆ Saskatchewan-Israel (SIRCP) R&D Collaboration Program, Implementation
- ◆ University of Saskatchewan, Associate Deans, Research Facilitator Forum, and Arts & Science
- ◆ Research Development and Innovation (RDI) Management in Minerals Industry, CMIC





## 2014 AGM AND FUNDING ANNOUNCEMENTS



IMII hosted its 2<sup>nd</sup> annual general meeting on March 20, 2014. Guest speakers included the Honorable Rob Norris, Minister of Advanced Education and Jade Anderson, a graduate student in Applied Psychology at the University of Saskatchewan.

In conjunction with our AGM, IMII announced \$4,376,000 in funding for education and training programs and research and development projects in Saskatchewan. In conjunction with the 2013 funding of \$1,676,000, total funding to date is \$6,052,000.

These six projects focus on safety, environment and developing specialized training for the mining industry.

## MIER-MINERALS



On April 11, 2014 International Minerals Innovation Institute, Mitacs and the University of Saskatchewan announced their partnership on a research and training initiative.

Engin Özberk is overseeing the initiative as the Mitacs Industry Executive in Residence – Minerals (MIER-Minerals). In this role, Mr. Özberk is working with the College of Engineering and other academic units to identify and create new research initiatives that will lead to innovation in the minerals sector, strengthening companies and enhancing Canada's economy.

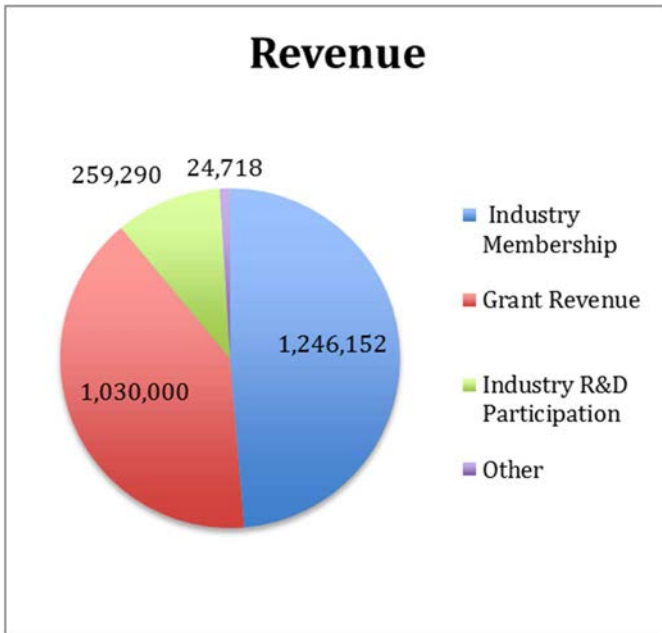
## 1<sup>st</sup> ANNUAL “LET’S TALK MINERALS!”



On May 26, in support of Saskatchewan Mining Week, IMII hosted the 1<sup>st</sup> annual “Let’s Talk Minerals!”

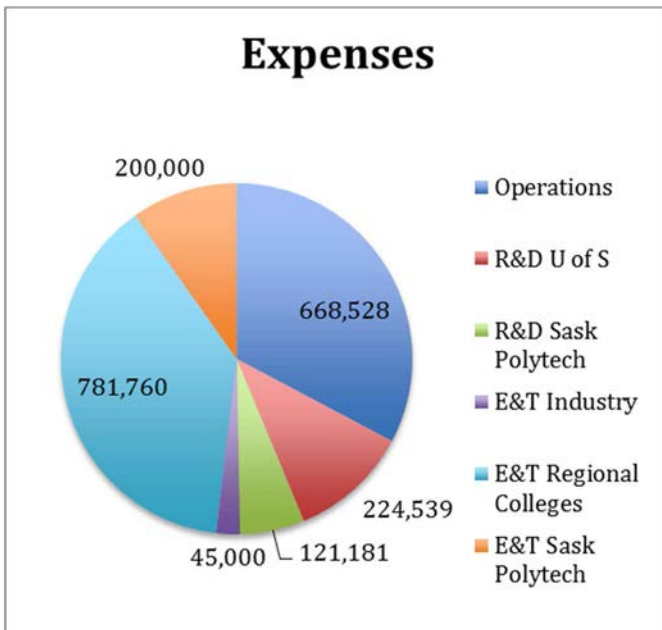
Our guest speaker Gord Winkel’s presentation was on Making Safety Real, The Journey to High-Performing Safety Cultures in Mining. Mr. Winkel joined the University of Alberta in 2010 as the Chair and Industrial Professor of the Engineering Safety and Risk Management Program in the Faculty of Engineering. In this capacity he provides safety and risk management education to final year engineering students and is working to make this a core competency for all engineering disciplines.

# Financials



Revenues for 2014 were from the following sources:

• Industry Membership	\$1,246,152
• Saskatchewan Government	\$1,000,000
• Industry R&D Participation	\$ 259,290
• Mitacs	\$ 30,000
• Other	<u>\$ 24,718</u>
	<b>\$2,560,160</b>



Expenses for 2014 are as follows:

• Operations	\$ 668,528
• Research and Development	\$ 345,720
◇ U of S – 2 Projects	
◇ Sask Polytech – 1 Project	
• Education and Training	\$1,026,760
◇ Industry – 1 Project	
◇ Regional Colleges – 4 Projects	
◇ Sask Polytech – 1 Project	
◇ U of S – 1 Project	
	<u>\$2,041,008</u>

The Financials above, including Revenue and Expenses, are as per IMII's December 31, 2014 audited financial statements, reported on by MNP and approved by the board of directors on March 19, 2015. Full financial statements are available from IMII upon request.

# IMII Members

## INDUSTRY

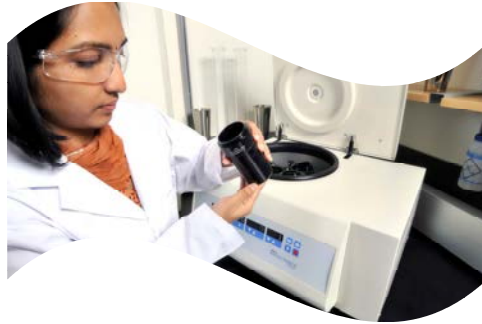


## POST-SECONDARY EDUCATIONAL INSTITUTIONS, ASSOCIATIONS, RESEARCH PROVIDERS AND OTHERS



## GOVERNMENT OF SASKATCHEWAN





International  
**Minerals Innovation**  
Institute

201 – 112 Research Drive, Saskatoon, SK S7N 3R3

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