

Ground Breaking News



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Events

CIM Conference & Exhibition
May 4-7, 2008
CEMI Booth #0605

CEMI Lecture Series

On March 11, 2008 CEMI and Laurentian's School of Engineering hosted a guest lecture by **Antonio Araujo**, entitled "Optimal system operation". He has been working on a CEMI sponsored project on practical application of a plant-wide control design procedures to mining and metallurgical industries. The principal investigator of this project is **Dr. Helen Shang**.

CEMI promotes collaboration at PDAC



The Hon. Gary Lunn, Minister of Natural Resources Canada and Dr. Peter K. Kaiser, CEO of CEMI, discuss CEMI's fit within the Federal Science and Technology Strategy.

CEMI hosts Mining Innovation Strategy Forum at PDAC

On Tuesday, March 4, 2008 during the Prospectors and Developers Association of Canada (PDAC) International Convention, CEMI facilitated a Mining Innovation Strategy Forum before a full house of representatives from industry, government, and academia.

The Disguised Panel of speakers included Warren Holmes, Co-chair of the Ontario Mineral Industry Cluster Council (OMICC), who spoke to the motivation behind establishing CEMI in Ontario; Christine Kaszycki, ADM of MNDM, alluded to CEMI as an important step in



The Hon. Micheal Gravelle, Minister of Northern Development and Mines and Marc Leroux, MNDM visit CEMI's booth.

advancing Mining Research in Ontario; Parviz Farsangi, COO, Vale Inco, and Dawson Proudfoot, Senior Mines Engineer, Xstrata Nickel, discussed CEMI as an investment in value-adding partners; John Thompson, VP Technology and Development, Teck Cominco, elaborated on rebuilding mining research capacity for global competitiveness; and Stephen Lucas, ADM of NRCan, talked about integrating and advancing mining research excellence throughout Canada by the development of a Pan-Canadian Mining Research & Innovation Strategy.

Dr. Peter K. Kaiser, President and CEO of CEMI said that "At this critical juncture for CEMI, given the extensive interest shown by present and potential partners, it is important to focus on two or three of the most promising

The disguised panel of speakers from the CEMI Forum



projects and to develop R&D teams with the requisite multi-disciplinary skills.”

The Forum served as a venue to identify top priority projects with a high potential for success, projects that fill a gap, allow Canadian researchers to excel, and thus attract wide support.

The goal of the Forum was to solicit audience input and participation in defining lead R&D projects that are most relevant to the mining industry. Participants were invited to address CEMI’s “technical way-forward” by identifying both strategic program foci and delivery teams.

Based on the advice received at the Forum, CEMI plans to focus their offerings and solicit new partners from industry, consultants, and contractors. Dr. Kaiser explained that “CEMI will then identify research partners with matching expertise and create networked solutions teams. CEMI will utilize its funding to design effective research programs, support research partnerships, and manage the industry-focussed projects.”

CEMI connects with local SMEs

Mike Grace, Project Development Coordinator for CEMI, has visited over 70 local SMEs from both the service and supply sectors with the primary goal to identify projects with high innovation potential. The main focus is to more aggressively pursue “innovation projects” rather than generic research and development projects.

The secondary goal was to establish linkages between innovators and entrepreneurs and CEMI to help advance research and development of projects relevant to the mining industry.

These efforts to reach out to the SME community will be expanded beyond Northern Ontario to become relevant to the wider business community.

The current metal prices have resulted in the two large local mining giants demanding full service from every SME and contractor servicing the mining industry. This contact with the SME community clearly identified several challenges for the service and manufacturing companies.

There is a shortage of skilled and unskilled employees as well as an overwhelming demand to fill customer orders. This situation leaves very little time for R&D thinking other than to solve a specific industry driven problem.

Several possible projects of interest were identified and CEMI is now exploring how to assist the associated SMEs with their innovative research and development projects.

Newly Funded Projects

Exploration:

Industrial Research Chair in Exploration Geophysics

Principal Investigator: Department of Earth Sciences & MERC, Laurentian University

Deep Mining:

Energy optimization of mine ventilation

Principal Investigator: Kostas Fytas

Integrated Mine Process Engineering

PERM - Productivity Enhancement & Risk Management

Principal Investigator: Peter K. Kaiser

PRIMO - Planning & Rapid Integrated Mine Optimization

Principal Investigator: Paul Dunn

Automation, Telerobotics & Mining Infomatics:

Wireless condition monitoring of underground mobile & remote mining Machinery

Principal Investigator: Markus Timusk

Environmental and Sustainability:

Development of polyurethane-polysiloxane polymers for potential application in Mining industry

Principal Investigator: Ravine Narain

Human Resource Development

Global experience @ work, Highly-skilled professionals recruitment program

Principal Investigator: Sudbury Chamber of Commerce