Growing Innovation

June 17, 2010
Hamilton, Ontario
McMaster Innovation Park
Welcome to McMaster Innovation Showcase 2010 – Growing Innovation. At McMaster, we’re working to create a culture of innovation and commercialization – a culture where ideas grow and are nurtured and, ultimately, harvested into new products and technologies. A culture that allows us to capture the true value of our research and contribute to the economic and social prosperity of our city, province and country.

Innovation Showcase is an ideal forum to plant seeds, to grow partnerships and create opportunities.

Thank you for joining us.

Mo Elbestawi
Vice President, Research & International Affairs
McMaster University

Welcome to our third annual McMaster Innovation Showcase. For 2010, our theme is “Growing Innovation.” As anyone who has planted a seed knows, gardening requires initial effort in hopes of an eventual harvest. Similarly innovation requires an early vision to sustain the nurturing, fertilizing and tending required to move an invention or discovery out of the lab and into the marketplace.

As the host of showcase, the McMaster Industry Liaison Office aims to help build the innovation economy in our region by connecting businesses with the research discoveries and inventions of McMaster and Hamilton’s hospitals. We can help you plant your seed of discovery. This year’s showcase will give you insight into some of the stages of growth and how to encourage them. Our office looks forward to working with you from sprout to blossom to harvest.

Finally, I’d like to thank our sponsors, whose vision and generosity made this event possible.

Wishing you green thumbs,

Elsie Quaite Randall
Executive Director, McMaster Industry Liaison Office

TURNING INNOVATION INTO ECONOMIC GROWTH

Business, education and government in the Hamilton, Halton and Niagara regions joined forces to energize our existing biosciences strengths and help turn breakthroughs into business success.

Join us as we build this regional initiative! Help transform the Golden Horseshoe into a knowledge-based, economic powerhouse of research, growth and investment.

Visit our web site at www.ghbn.org to find out more!
This year the poster competition will use the expertise of all our attendees to determine which posters describe the most innovative approach and commercialization ready solution to a problem. The poster competition represents a spectrum of investment opportunities, attendees are invited to invest in the best posters using the MILO Money in your registration package. Once you’ve had an opportunity to review the posters, we invite you to invest your MILO Money by placing it in the investment envelop at each poster. How you invest it is up to you. Place it all in one hot prospect or hedge your bets with several posters. In addition, there are some deep pocketed investors (the official poster judges) with larger sums of money to invest. During the closing reception we will announce the winners in this marketplace of ideas.

**Poster Titles and Authors**

1. Tetra Solutions  
   **Author:** Amanda Lemus

2. Every Hand - from Heal A Pain  
   **Authors:** Mohammed Khalaf and Ash Kheradmand

3. Oxidative Stress as a Target for Drug development in Cancer  
   **Authors:** Athanasios Paschos, Mohit Sharma, Pierre Laflamme and Gurmit Singh

4. Long-Lasting, Minimally Invasive Therapeutics for Retinal Blindness  
   **Authors:** Scott Fitzpatrick, M.A. Jafar Mazumder, Ben Muirhead, Frances Lasowski, and Heather Sheardown

5. A Clearer Alternative - Light Responsive Materials for Eye-Care Treatment  
   **Authors:** Laura Wells and Heather Sheardown

6. Design and Construction of a Heteronuclear 1H and 1P Double Tuned Coil for Breast Imaging and Spectroscopy  
   **Authors:** Sergei Obruchkov and Mike Noseworthy

7. New Generation of Green Air Conditioner  
   **Author:** Abou el Fish Mohamed

8. Medical Expert System for Diagnosis and Treatment Planning  
   **Authors:** Ahmad Khoodyari-Rostamabad, Gary M. Hasey, James P. Reilly, Hubert DeBruin and Duncan J. MacCrimmon

9. Cyanobacteria: Testing, Education & Community Outreach  
   **Authors:** Bruce Newbold, Karen Ngo and Anita Tob

10. INSPECTOMETER - Home Inspection Innovation  
    **Authors:** Emad Saif and Peter Jansen

11. Long term Adjustable Extraocular Muscle Implant  
    **Authors:** Kamrouz Kassiri and Kourosh Sabri

12. Resistin is a Novel Therapeutic Target in Treating Dyslipidemia in Human Obesity  
    **Authors:** Justina Costandi, Michelle Melone, Alex Zhao and Shirya Rasbid

    **Author:** Benedicto C. Baronia

14. SCI Action Canada: A Community-University Initiative to Advance Physical Activity Participation in People with Spinal Cord Injury  
    **Author:** Kathleen Martin Ginis

15. Prototype Device for the Quantification of Changes in Skin Color  
    **Authors:** Diana F. Moscu, Joseph E. Hayward, Tom J. Farrell and Michael S. Patterson

16. Organic Nanoparticle Flotation Collectors  
    **Authors:** Miles Montgomery, Songtao Yang and Robert Pelton

17. Assessing the Sensibility of a New HIV Disability Questionnaire  
    **Authors:** Kelly O’Brien, Patty Solomon, Ahmed Bayoumi, Rob Alexander, Ken King, James Murray, Meskerem Tebeje, Turik Bereket, Marilyn Swinton and Geoff Norman

18. Gene Transfer of Extracellular Superoxide Dismutase Ameliorates Pulmonary Fibrosis in Rats  
    **Authors:** Ye Cui, Jennifer Robertson, Shyam Maharaj, Lisa Waldbauer, Martin Kolb and Jack Gauldie

19. Melanin Kingdom Inc.  
    **Author:** Suliman Al-Nasib
Thursday, June 17

8 a.m.  Registration and breakfast in the atrium
8:45 a.m. Welcome Address by Mo Elbestawi, Vice-President, Research & International Affairs, McMaster University

Keynote Address

9 a.m.  Tonya Surman, Executive Director of the Centre for Social Innovation

Ms Surman is the founding director of the Centre for Social Innovation (CSI) – a dynamic convergence space whose mission is to catalyze, connect and support new ideas that are changing the world. CSI provides shared space to 180 social mission groups, acts as a community centre for social innovators and provides a home to several incubated projects. CSI was awarded the ‘City Innovation’ award from the Canadian Urban Institute in 2009 and Ms Surman was recognized as a ‘Leader in Social Change’ from the Canadian New Media Awards in 2009. In 2010, she became an Ashoka Fellow for her work at CSI.

Get Moving: Transportation and Logistics

9:45 a.m.  Moderator: Pavlos Kanaroglou, Director, McMaster Institute of Transportation and Logistics

Panel members:

• Demetrius Tsafaridis, CEO, CareGo Group
• Jillian Stephen, Director Strategic Planning and Rapid Transit, City of Hamilton
• John Best, Executive Director, Southern Ontario Gateway Council
• Keith Robson, Chairperson, Federal Bridge Corp.

10:45 a.m. Break

Power Up: Sustainable Energy

11 a.m.  Moderator: Nick Markettos, McMaster University

Panel members:

• John Preston, Engineering Physics, McMaster University
• Mike Waddington, Geography & Earth Sciences, McMaster University
• Brian Morris, Planning and Economic Development Department, City of Hamilton,
• Scott Knapman, Vice President of Horizon Energy Solutions

Lunch

Noon  Buffet lunch served in the atrium
12:15 p.m. Special announcement

Plenary Address

12:30 p.m. Louise Dompierre, President and C.E.O. of the Art Gallery of Hamilton

Louise Dompierre joined the Art Gallery of Hamilton in December 1998. During her 20 years career in the Canadian art world, Dompierre has played a key role in the development of dynamic and ambitious arts centres. Formerly the Associate Director/Chief Curator of The Power Plant, Toronto, she has also worked at the Agnes Etherington Art Centre, Queen’s University in Kingston, and the Canada Council for the Arts in Ottawa. She was the Canadian Commissioner for the Sydney Biennale in Australia in 1998, and, for many years served on the Visual Arts Advisory Council at the University of Western Ontario.

Ms Dompierre has taught, lectured and published widely. She has curated numerous exhibitions, and has collaborated in various capacities with a number of art institutions abroad. The field of Interactive Digital Art is a particular area of interest, and her publications exploring this subject include Press/Enter: Between Seduction and Disbelief; Digital Gardens: A World in Mutation and Yasumasa Morimura: Psychoborg.

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Innovation Collaboration Concurrent Panels

Drug Discovery Panel
Moderator: Gerry Wright, Michael G. DeGroote Institute for Infectious Disease Research, McMaster University
Panelists:
- Jan Blanchard, High Throughput Screening Facility, McMaster University
- Kevin Turnbull, Director of Sales, North America, ACD Labs (Advanced Chemistry Development, Inc)
- John Coleman, Deputy Head, Project Development, Centre for Drug Research and Development, Vancouver, B.C.
- Fred Capretta, Centre for Microbial Chemical Biology, McMaster University

1:30 p.m. Break

Physical Sciences and Engineering Panel
Moderator: Karen Sievewright, Director, Research, Toronto Region Research Alliance
Panelists:
- Peter Mascher, Department of Engineering Physics, McMaster University
- Christopher Swartz, McMaster Advanced Control Consortium (MACC)
- Marcia Vernon, National Optics Institute (INO)
- Vit Vaculik, Manager, Automation Technology Solutions, ArcelorMittal Dofasco
- George Wright, Business Development Manager, Ontario Centres of Excellence

Break

Life Sciences Focus Panel
Moderator: Gerard Cox, Firestone Institute for Respiratory Health, McMaster University
Panelists:
- Paul O’Byrne, Firestone Institute for Respiratory Health, McMaster University
- Holger Schünemann, Clinical Epidemiology and Biostatistics, McMaster University
- Jeff Weitz, Thrombosis and Atherosclerosis Research Institute, McMaster University
- Anthony Chan, Thrombosis and Atherosclerosis Research Institute, McMaster University
- Paolo Renzi, Chief Scientific Officer, Topigen (Pharmaxis)
- Hugh Hoogendoorn, President, Affinity Biologicals

2:45 p.m. Break

Physical Sciences and Engineering Panel continues

Awards Ceremony and Closing Reception
4 p.m. Reception in the atrium
4:15 p.m. McMaster Innovation Awards
- Innovators of Distinction
- Champions of Innovation
- Poster Awards
- McMaster Innovator Awards
4:40 p.m. Closing Remarks, Reception continues
To learn how McMaster University and the City of Hamilton are working together to grow Hamilton's economy, visit: investinhamilton.ca

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McMaster Innovator Awards

Creating a product or service is one way researchers can transfer their research discoveries and inventions back to society. The McMaster Innovator Awards recognize those researchers who have achieved commercialization success.

Sponsored by the Vice-President of Research & International Affairs, these awards aim to encourage a culture of innovation, commercialization and entrepreneurship within the McMaster community.

Three awards will be given this year:
- McMaster Innovator of the Year Award
- McMaster Lifetime Innovator Award
- McMaster Industry Partner Award

McMaster Innovator Award Nominees

Leslie Berry, Assistant Professor of Pediatrics

John Brennan, Professor of Chemistry

Gordon Guyatt, Professor of Clinical Epidemiology & Biostatistics

Simon Haykin, Distinguished University Professor of Electrical & Computer Engineering

Joseph Kim, Assistant Professor of Psychology, Neuroscience & Behaviour

John MacGregor, Distinguished University Professor Emeritus of Chemical Engineering

James Mahony, Professor of Pathology & Molecular Medicine

Heather Sheardown, Associate Professor Chemical Engineering

John Wallace, Professor of Medicine

Salim Yusuf, Professor of Cardiology

McMaster Industry Partner Award Nominees

Norjohn/Walker Industries

ArcelorMittal/Dofasco

Siemens Canada

Circassia

Astra Zeneca/MehlImmune

Spectral Diagnostics Inc.

What do you see? Across Ontario, diverse scientific fields are coming together in an explosion of medical and biotech innovation. Who’s the link? Ontario Centres of Excellence. Since 1987, OCE has been making the connections, providing the guidance and investing the seed funding that turns discoveries into commercial successes in five key market sectors: communications and information technology, earth and environmental technologies, energy, materials and manufacturing, and photonics. And when people and innovations across sectors converge, there’s no stopping the growth that can emerge. See it for yourself at oce-ontario.org.
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