

## Mini- Techno Workshop

Half a day Workshop on Science Entrepreneurship  
 run by Institute of Optical Sciences, University of Toronto, Canada

Learn	<ul style="list-style-type: none"> <li>• How to convert scientific ideas into products/services and business ventures.</li> <li>• Practical insights and experiences from practicing science entrepreneurs.</li> <li>• Mini- version of Techno 2012 that is run at University of Toronto every year (<a href="http://techno.optics.utoronto.ca/">http://techno.optics.utoronto.ca/</a> )</li> </ul>
For whom	<ul style="list-style-type: none"> <li>• Late stage Masters(Science)/B.E/M.E students (4<sup>th</sup> and 5<sup>th</sup> year)</li> <li>• PhD Students</li> <li>• First preference to NCL and IISER students, and interns/trainees at NCL</li> </ul>
When	Saturday, 25 August 2012 Timings: 2.00 pm – 6.00 pm
Where	Shanti Swarup Bhatnagar Lecture Theatre Polymers and Advanced Materials Laboratory National Chemical Laboratory, Pashan Road, Pune, India
Contact	Miss. LipikaBiswas 100, NCL Innovation Park, Dr. Homi Bhabha Road Pune-411008 Phone: +91-20- 20250934 / 64011026 Email: <a href="mailto:eventsdesk@venturecenter.co.in">eventsdesk@venturecenter.co.in</a> Website: <a href="http://www.venturecenter.co.in">www.venturecenter.co.in</a>
Cost	Free Token reimbursable registration fee: Rs 100 Limited seats (70). First-come-first-serve.
Organizers	<ul style="list-style-type: none"> <li>• Institute of Optical Sciences, University of Toronto</li> </ul>

## INTRODUCTION

The Institute of Optical Sciences is a pioneering institute of the University of Toronto, Canada (top-10 University of the world) that has an outstanding record of discovery research, education and entrepreneurship. The IOS has developed its own methodology and process for kick-starting science based start-ups under the leadership of Prof Cynthia Goh. The IOS has been very successful in creating IP-rich, science-based start-ups in a variety of areas including nanotechnology, diagnostics, agriculture etc. Prof Cynthia Goh runs a popular workshop at Toronto called Techno (<http://techno.optics.utoronto.ca/>). This workshop aims to provide a quick, condensed version of Techno to build awareness and interest amongst students.

## OBJECTIVE

The objective of the workshop is to

- How to convert scientific ideas into products/services and business ventures.
- Practical insights and experiences from practicing science entrepreneurs.
- Mini- version of Techno 2012 that is run at University of Toronto every year (<http://techno.optics.utoronto.ca/> )

## WORKSHOP INCLUDES

Workshop includes:

- Handout
- Tea/ Coffee
- Free reference access to Venture Center Library

## FACULTY



Prof Cynthia Goh

Professor at the Department of Chemistry, the Institute of Medical Science, the Munk School of Global Affairs, and Director of the Institute for Optical Sciences at the University of Toronto.

*Prof Cynthia Goh is a Professor in the Department of Chemistry, University of Toronto with research interests in probe microscopy, interfacial chemistry, nanoparticle synthesis and properties, polymers, biopolymers and nanocomposite materials directed protein aggregation. She has an outstanding track record in discovery research, inventions and entrepreneurship.*

In 2004, she launched a course for scientific entrepreneurs which has become the well-known MaRS Entrepreneurship101 and is now focused on developing a suite of entrepreneurship support programs, including the intensive Techno workshop at the IOS. She believes strongly in the ideal of creating companies on the foundation of fundamental science and has put this belief into practice through the creation of Axela Inc. (named one of the top 10 biotech firms in Canada in 2005) Vive Crop Protection Inc. (Winner of Deloitte's Technology Green15 and one of Canada's Top 10 in Cleantech in 2010) and most recently Dalenyi Biosurfaces.

 <p>Dr. Venkat Venkataramanan</p>	<p>Director, Scientific Operations</p> <p><i>Venkat Venkataramanan, PhD, is the Head, Scientific Operations of the Institute for Optical Sciences at the University of Toronto. He obtained his doctoral degree in Physics from the Indian Institute of Science, Bangalore and then went on to hold various research and teaching positions in the UK, India, Portugal and Japan. He is a founding director and Chief Technology Officer of Lumentra Inc, a Canadian National Advisory Committee member of International Commission on Illumination (CIE) and also serves on the technical committees of ANSI and IOS. Venkataramanan is also an Adjunct Professor in the Department of Electrical and Computer Engineering at Ryerson University in Toronto.</i></p>
 <p>Dr. Richard McAloney</p>	<p>Director, Technology Development</p> <p><i>Dr. McAloney received a Ph.D. in Physical Chemistry from the University of Toronto and is currently the Director of Technology and Business Development for the BioOptics program at the Institute for Optical Sciences, University of Toronto. Prior to this he was a Research Scientist for a technology development company in the U.S. where his role was to translate innovative technologies into commercial products. He was the principal investigator on a number of small business innovation research grants from various US government agencies including the DoD, NIH, and EPA. Dr. McAloney is a co-founder of two patents on diffraction-based biosensing upon which the start-up company Axela Inc. is based.</i></p>

<b>WORKSHOP SESSIONS</b>			
<b>Timing</b>	<b>Session Title</b>	<b>Duration (min)</b>	<b>Speakers</b>
1330-1400	Registration	15	
1400-1415	Welcome and Introduction to Workshop	15	Dr.Premnath
1415-1435	How does a university research result reach the market?	20	Prof. Cynthia Goh
1435-1455	Case studies of several start-up companies	20	Dr. Richard McAloney
1455-1520	Inventors' brainstorming session.	25	Prof. Cynthia Goh
1520-1540	Introduction to Intellectual Property	20	Dr. Venkat Venkataramanan
1540-1610	Tea Break and Networking	30	
1610-1635	Business models –what are the different ways by which you can make revenue out of your technology?	25	Dr. Venkat Venkataramanan
1635-1700	Bootstrapping – Funding your company through its early stages	25	Dr. Richard McAloney
1700-1730	Selling your technology, selling yourself	30	Prof. Cynthia Goh
1730-1800	Closing	30	

**ABOUT THE ORGANIZERS**

	<p>Entrepreneurship Development Center (Venture Center) – a CSIR initiative – is a Section 25 company hosted by the National Chemical Laboratory, Pune. Venture Center strives to nucleate and nurture technology and knowledge-based enterprises by leveraging the scientific and engineering competencies of the institutions in the Pune region in India. The Venture Center is a technology business incubator supported by the Department of Science &amp; Technology’s National Science &amp; Technology Entrepreneurship Development Board (DST-NSTEDB). Venture Center’s focuses on technology enterprises offering products and services exploiting scientific expertise in the areas of materials, chemicals and biological sciences &amp; engineering.</p> <p>For more information, visit <a href="http://www.venturecenter.co.in/">http://www.venturecenter.co.in/</a></p>
	<p>The National Chemical Laboratory, India is a leading Indian research, development and consulting organisation with a focus on chemistry and chemical engineering. It has a successful record of research partnership with industry. NCL is a constituent laboratory of the CSIR – India’s largest network of publicly funded R&amp;D laboratories.</p> <p>For more information, visit <a href="http://www.ncl-india.org/">http://www.ncl-india.org/</a></p>
	<p>The Institute of Optical Sciences is a pioneering institute of the University of Toronto, Canada (top-10 University of the world) that has an outstanding record of discovery research, education and entrepreneurship. The IOS consists of 27 faculty members from the Departments of Chemistry, Physics, Material Science and Engineering, and Electrical and Computer Engineering. The IOS has 38 start-up companies currently working in our space and with our staff. Five companies have graduated from IOS programs and have successfully raised venture funding, won multiple awards, and are helping develop Canada’s innovation economy.</p> <p>More information: <a href="http://www.optics.utoronto.ca/">http://www.optics.utoronto.ca/</a></p>