



AUGUST 31 – SEPT 2, 2005

Max Bell Building, The Banff Centre

2005 Banff Informatics Summit

The annual gathering of iCORE Chairs and Professors, their research teams and invited guests

Message from the Program Chair

Great opportunities exist in the ICT area for industrial use of technologies being developed by iCORE research teams via the creation of new companies, patent applications and protection, and process and software licensing. In order to expose iCORE research teams to these opportunities, a program that includes a slate of distinguished speakers with sharp insight in the technology commercialization process has been put together. This year's summit promises to be a very enriching two days in Banff for each team. We look forward to welcoming you to the 2005 Banff Informatics Summit.

Gérard Lachapelle

PROGRAM OVERVIEW

Wednesday August 31 (half day)

Noon

Welcoming Lunch Reception

1 – 5 pm

Research Exchange: iCORE Chair/Professor Presentations

5 pm

Geolocation contest briefing

5:15 – 7 pm

Dinner

7 – 8 pm

Keynote: Wolfgang Wahlster - Transforming the Technology Transfer Pipeline into Dynamic Innovation Clusters: The DFKI Model

8 pm

Icebreaker Reception

Thursday September 1 (full day)

9 – 10 am

Keynote: Martin Kratz - Policy Shifts for an Innovation Economy

10:30 am – noon

Panel: Technology Commercialization Approaches

Martin Kratz, Leader of the Technology Law Practice for Bennett Jones

Jennifer McNeill, President and CEO of CipherSoft

Rahul Sood, Founder and President of VoodooPC

Robin Winsor, Founder and CTO of Imaging Dynamics Company

Noon – 1 pm

Lunch

1 – 2 pm

Keynote: Jennifer McNeill - Success in Global Exporting of Software

2:30 – 4:30 pm

Breakout Sessions: Clusters chaired by Jim Haslett - Wireless, Mike Brett - Nano, Randy Goebel - Software

Friday, September 2 (half day)

9 – 10 am

Keynote: Richard Hawkins - What does new technology have to do with innovation?: Some reflections on market-making and technical change.

10:30 – 11:30 am

Student Poster Awards and Geolocation Contest Results

11:30 am onward

Box Lunch or Dining Room Lunch

Team retreats if desired

Keynote: Wolfgang Wahlster, Director and CEO of the German Research Center for Artificial Intelligence



Dr Wolfgang Wahlster is the Director and CEO of the German Research Center for Artificial Intelligence and a Professor of Computer Science at the Universität des Saarlandes, Saarbrücken. In addition, he is the Head of the Intelligent User Interfaces Lab at DFKI. He received his doctoral degree (1981) in computer science from the University of Hamburg,

Germany. Since 1975 he has been working in the field as a principal investigator in intelligent user interface projects.

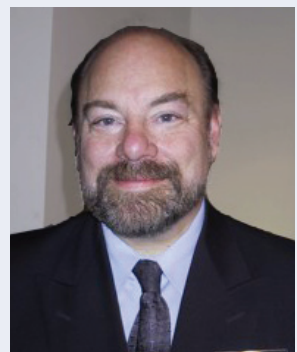
He has published more than 150 technical papers and 6 books on language technology and intelligent user interfaces. He is the editor of the book *Verbmobil: Foundations of Speech-to-Speech Translation* and the co-editor of *Readings in Intelligent User Interfaces*.

He is a member of the Scientific Board of Volkswagen's corporate university AutoUni, a member of the Scientific

Advisory Committee of the Swedish Information Technology Institute, the Japanese Cyber Assist Research Center, the French National Institute for Research in Computer Science and Control, the Digital Enterprise Research Institute of Ireland, the Board of Trustees and the Executive Committee of the International Computer Science Institute at Berkeley, the Alberta Ingenuity Centre for Machine Learning, and the Information Society Technologies Advisory Board for FP6 of the European Commission.

In 2000, he was the first AI researcher to receive the Beckurts Award, one of Germany's most prestigious awards for scientific and technological innovations. In 2001, the President of the Federal Republic of Germany, Dr. Johannes Rau, presented the German Future Prize to Professor Wahlster for his work on language technology and intelligent user interfaces. He was the first computer scientist to receive Germany's highest scientific prize that is awarded each year for outstanding innovations in technology, engineering, or the natural sciences. In 2003, he was the first German computer scientist elected Foreign Member of the Royal Swedish Academy of Sciences, Stockholm.

Keynote: Martin P.J. Kratz, Leader of the Technology Law Practice for Bennett Jones



Martin Kratz leads the Technology Law Practice group for Bennett Jones. He continues to be identified as one of Canada's 500 leading lawyers and was also ranked among the top technology law lawyers in Canada by *Lexpert* and *American Lawyer* Media publications. He is also identified as a leading lawyer by *Mondaq's Guide to the World's Leading Internet and E-Commerce Advisors*. Martin has published

over 185 articles or books on various topics involving advanced technology and law. He is a frequent speaker and lecturer on issues involving intellectual property and technology and teaches intellectual property and technology courses at four universities across Canada.

Martin is an Adjunct Professor of Law at the University of Calgary, Faculty of Law where he has taught internet law, intellectual

property law and biotechnology law. He teaches internet law and biotechnology law at the University of Alberta, Faculty of Law, as well as a technology law course at Concordia University College. Martin is an Adjunct Professor of Law at Osgoode Hall Law School (Toronto) and teaches, as lead national instructor, e-property law for Osgoode Hall Law School's E-Business Law LL.M. program and also teaches on intellectual property transactions for Osgoode Hall Law School's Intellectual Property Law LL.M. program. He also acts as Regional Director of the E-Business LL.M. program and Osgoode Hall Law School's Intellectual Property Law LL.M. program and teaches, as local instructor, the trademark, copyright and patent, courses, as well as others.

Martin has been chair of the Intellectual Property Committee for the Canadian Information Processing Society, is currently on CIPS Advocacy Committee, and is a member of the ABA's Science & Technology, Patent, Copyright & Trademark and International Sections. He is also a member of the International Trademark Association, American Intellectual Property Lawyers Association as well as many other organizations.

Geolocations contest - Register your team by August 24

To enter a team, contact Rob Watson rwatson@geomatics.ucalgary.ca or 403 210 9802.

More information provided on last page

Contest briefing Wednesday, August 31 at 5 pm

Panel Discussion:

Technology Commercialization Approaches

Panelists:

Martin Kratz
Jennifer McNeill
Rahul Sood
Robin Winsor

Student Poster Program

Objectives:

To promote exchanges between our graduate students, publicize their research during Summit 2005 and celebrate the excellence of their work.

Student Selection:

To be made by each individual chair/professor using an assessment method of their choice. A maximum of two students per chair/professor to be selected. Names and poster titles to be communicated to Gérard Lachapelle and Carole Carlton by August 1.

Condition of Award:

Students must prepare a poster not to exceed 90 cm x 90 cm, attend Summit 2005, and stand by their posters during coffee breaks throughout Thursday and Friday AM (till 12:00 noon) to answer questions. Students of chairs/professors not able to attend Summit 2005 are also eligible if they themselves attend Summit 2005.

Presentation of Award:

Certificates will be presented to the students on Friday, September 2, during the 10:30 Plenary Session.

Contact information:

Gérard Lachapelle
lachapelle@geomatrics.ucalgary.ca

Carole Carlton
carlton@icore.ca

Thursday September 1, 10:30 am

Panelist: Rahul Sood, Founder and President of VoodooPC



Rahul Sood is the founder and president of VoodooPC, a Calgary-based computer manufacturer. Voodoo was founded in 1991 and, like any growing business, has been through some trying times over the last 14 years. It is now an incredible success story. Voodoo grew from a small local shop to an influential world leader simply by sticking with simple basic rules of business. Featured in every major mainstream publication including the New York Times, Wall Street Journal, Forbes, Fortune, FHM, Maxim, Stuff Magazine, PC Magazine, TIME, just to name a few – VoodooPC has carved a niche into an industry that is notorious for low margins and cut throat competition.

They have also received notable attention from the likes of Dell, Apple, and other “big boy” manufacturers down south.

Rahul Sood has been featured in a number of business publications, including Business 2.0. He has been recognized as a key innovator by PC magazine, Computer Power User magazine, and Maximum PC magazine. Recently VoodooPC was awarded the Laurentian Bank Export award for Canada, and their CEO was given the entrepreneur of the year for Alberta. VoodooPC was recently recognized as one of the fastest growing companies in Alberta Fast 50 magazine. His view of the industry, including VoodooPC trials and tribulations is both inspirational and interesting. Rahul Sood speaks of the importance of the gaming industry to modern day technology, as well as branding, and brand leverage. For more information on VoodooPC, visit www.voodooopc.com.

Panelist: Robin Winsor, Founder and CTO of Imaging Dynamics Company



One evening back in 1991, Robin Winsor, his wife Elaine – a veterinarian – and their friends were discussing x-rays over dinner. Robin was thinking aloud about image processing and how to make a better quality X-ray. But the veterinarians at the table were more interested in how to create an image more quickly. A year later, Winsor applied for a patent that would allow him to do both, create a better and faster X-ray.

It took nearly a decade of research and development (starting with a camcorder and an X-ray beam in his wife's veterinary clinic) for Robin's idea to become IDC's superior and successful products. IDC is now a publicly traded Canadian company that manufactures and markets digital radiography technology. Today, the Canadian headquarters is comprised of dedicated staff in manufacturing, software development, marketing, investor relations, R&D, product support and service. IDC first began trading on the Alberta Stock Exchange in November 1995. In 2001 IDC moved to the Toronto Venture Exchange where it currently trades under the symbol IDL. IDC's corporate headquarters are located in Calgary.

Winsor has worked in physics and imaging in the oil and gas industry. He was Coordinator of Earth Sciences Systems for Alberta Energy Company and worked on satellite imaging processing in the research and services department for Gulf Canada. Robin Winsor received a Bachelor of Science degree from the University of Edinburgh in 1980 specializing in geophysics and artificial intelligence. For more information, visit www.imagingdynamics.com.

Keynote: Jennifer McNeill, President and CEO of CipherSoft



Jennifer McNeill is a business executive with expertise in information technology. She has a reputation among colleagues and customers as an information technology executive with a rare balance of strategic insight, operational expertise, and hands-on technological skills.

She attended Troy State University in Montgomery, Alabama, and majored in computer science and math, with a minor in business and physics.

She became Director of Marketing at Smith Data Systems in Montgomery, Alabama in 1982. In 1987, she was named VP of Marketing at Cipher Systems Inc., and became co-owner and president of the Canadian company in 1995. In 2000, Cedar Group PLC purchased Cipher Systems, and she was asked to stay on as President of the Canadian operations. In 2001, she left the company to pursue a new venture, CipherSoft Inc, a software conversion company.

She has provided her consulting expertise to many organizations and industries including: oil and gas, utilities, government, financial services, pharmaceutical and manufacturing companies. She assists them in defining their business requirements and helping better position themselves to compete globally. She provides strategic direction to many organizations and is actively involved in mentoring several small business owners as they strive to make their businesses grow.

She has spoken for numerous regional Oracle, Java and DB2 user groups and also recently presented to the International Oracle User Groups in Paris and Birmingham. In addition, she participates in panel discussions with the Women's Executive Network, the University of Calgary Executive MBA Program, and other IT and entrepreneurial women's groups across the country.

She is Director of their Information Technology Board for the North American Marketing Association, and sits on the Reseller Council for NCR/Teradata Advisory Board, the Mount Royal College IT Communications Curriculum Advisory Board and the Business Edge Advisory Board.

Friday September 2, 9 am

What does new technology have to do with innovation?: Some reflections on market-making and technical change.

Keynote: Richard Hawkins, Canada Research Chair in Science, Technology and Innovation Studies at the University of Calgary



Richard Hawkins joins the University of Calgary faculty this year as Professor and Canada Research Chair in Science and Technology Policy. A political economist specialising in information and communication technology policy issues, he holds BA and MA degrees from Simon Fraser University, and a DPhil from the University of Sussex (UK).

Before coming to Calgary he was Leader of the Network Economy Programme at the Netherlands Organisation for Applied Scientific

Research (TNO) and most recently Senior Consultant to the new TNO Society, Technology and Innovation programme. Prior to this he was Senior Fellow and Lecturer at SPRU - Science and Technology Policy Research, at the University of Sussex.

In addition to academic work, Dr Hawkins has extensive international experience as a policy consultant and advisor in areas including science, technology and innovation policy, standardisation, defence procurement, electronic business, telecommunication regulation, the socio-economic impacts of information technology and information technology in transition economies

Clients have included the European Commission, the OECD, the World Bank, the UK Department of Trade and Industry, the Dutch Ministry of Economic Affairs, the European Science and Technology Observatory, the European Committee for Standardisation (CEN), the UK Office of Science and Technology, the International Labour Organisation, the Italian Communications Regulatory Authority, the London Metropolitan Police Service, and the British Standards Institution.

Registration Information

Register directly with the Banff Centre at 1-800-884-7574 or online at www.icore.ca

Guests wishing to arrive before or after the summit dates (August 31 - September 2, 2005), should contact the Banff Centre reservations department at 1-800-884-7574 or email reservation@banffcentre.ca

iCORE Chairs and Professors will receive a subsidy from iCORE after the event. Contact Carole Carlton for details (403) 210-5335.

Geolocations contest: Register your team by August 24

The University of Calgary's PLAN Research Group headed by Professor G. Lachapelle will be hosting a unique GeoLocation event during the Summit. Teams of 4-6 people will compete to find clues and collect points at various locations scattered throughout Banff using only a set of coordinates, a map, and a handheld GPS receiver. The iCORE team that collects the most points will be awarded a prize at the Summit's closing on Friday.

Teams will be given a handheld GPS unit and a map to use during the summit, and a set of coordinates for various clues that must be found. Teams must provide their own cars (at their own risk) for travel around Banff. Anytime between Wednesday evening and Friday morning, teams will use the GPS units to find the coordinates given, and answer the questions at those locations. Any team willing to put in a bit more effort in navigating will

earn bonus points! Put as much time and effort into the hunt as you like, but don't expect to find all the points! More details and event rules will be provided on Wednesday afternoon at the 5:00 PM contest opening.

No prior experience with GPS necessary! A basic understanding of latitude and longitude and UTM grid is a plus. Bring a pencil, paper, and a calculator if you're interested in bonus points!

Entry will be limited to the first 12 teams. Only 1 team per research group will be allowed to enter. (No PLAN team is eligible). **To enter a team, contact Rob Watson rwatson@geomatics.ucalgary.ca or 403 210 9802** with the name of your team Captain and your iCORE research team (iCORE Professor's name).

Deadline for registration is August 24, 2005.

Do you have a hidden talent for photography? Here is the chance to show it off.

iCORE is inviting team members to submit photographs taken at this year's summit for a chance to be published in the 2006 Research Report. One photograph will be chosen to win an iCORE fleece jacket.

Submissions of group, portrait and landscape photographs are welcome. Electronically submit your 4" x 6" 600 dpi photo by September 30, 2005 to gautron@icore.ca. All submitted photographs become the property of iCORE. Entries must include photographer's name, contact information, names of individuals in the photograph and a brief description.



About iCORE

The mission of the Alberta Informatics Circle of Research Excellence (iCORE) is to attract and grow a critical mass of exceptional researchers in the field of informatics, that is, areas of computer science, electrical and computer engineering, physics, mathematics and other disciplines related to information and communications technology (ICT).

iCORE was created as part of Alberta Science and Research Authority's 1998 ICT strategy for the province. iCORE develops and operates research programs for Research Chairs and Professors, Industry Chairs, Graduate Students, as well as supporting programs for Visiting Professors, Recruiting and Outreach.

A strong research capability in Information and Communications Technology is necessary for the economic success of Alberta.

Fundamental ICT research is an important and growing area in itself, and is a necessary foundation to enable the ICT support required for Alberta initiatives in the resource-based sectors, energy, agriculture, and forestry, the health, education and government sectors, and manufacturing and services.

iCORE invests in people: the highest calibre research scientists who work on fundamental and applied problems in informatics. Around these leaders, world-class research teams are developed.

The iCORE principle is simple: exceptional people produce exceptional results.

iCORE
Alberta Informatics Circle of Research Excellence
www.icore.ca

3608 33 Street NW
Calgary, Alberta
Canada T2L 2A6

Tel: (403) 210-5335
Fax: (403) 210-5337
Email: info@icore.ca