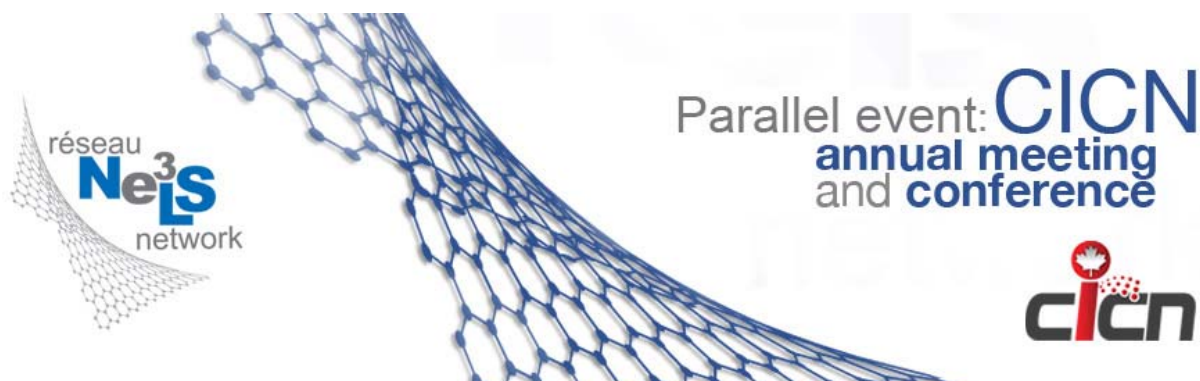




THE RESPONSIBLE DEVELOPMENT OF NANOTECHNOLOGY:
CHALLENGES AND PERSPECTIVES

Ne³LS Network International Conference 2012,
November 1-2, 2012, Montreal, Quebec, CANADA



PRELIMINARY PROGRAM

as at October 23, 2012

HEC MONTRÉAL

Côte Sainte Catherine Building
3000 Côte Sainte Catherine Road
Montreal, Quebec
CANADA H3T 2A7

THURSDAY NOVEMBER 1st, 2012

TIME	ACTIVITIES	ROOM (SUBJECT TO CHANGE)
7:30 AM	Registration	Espace Banque Royale Rez-de-jardin
8:00 - 8:30 AM	Welcome Remarks <ul style="list-style-type: none"> ▪ Charles-Anica Endo Executive Director, Ne³LS Network (Canada) ▪ Jacques Mallette Chair, Board of Directors, Canadian Industrial Consortium in Nanotechnology (CICN) (Canada) ▪ Guy Rouleau Director, CHU Sainte-Justine Research Center (Canada) ▪ Joseph Hubert Vice-Rector, Major Academic Projects, University of Montreal (Canada) ▪ Renaldo Battista Scientific Director, Fonds de recherche du Québec - Santé (FRQS) (Canada) 	IBM Amphitheatre Rez-de-jardin
8:30 - 10:00 AM	Plenary Session 1 How to assess the risks of nanotechnology? <i>Analysis and discussion of the various risk facets</i> Chair: <ul style="list-style-type: none"> ▪ Nathalie de Marcellis-Warin Associate Professor, Department of Mathematical and Industrial Engineering, <i>École Polytechnique de Montréal</i> (Canada) Speakers: <ul style="list-style-type: none"> ▪ Alexei Grinbaum Researcher, Philosophy and Ethics of Science Technology, <i>CEA-Saclay/LARSIM</i> (France) ▪ Gunter Oberdorster Professor of Environmental Medicine, University of Rochester, School of Medicine and Dentistry (USA) 	IBM Amphitheatre Rez-de-jardin Simultaneous translation will be offered during this plenary session
10:00 - 10:30 AM	Networking Break	Atrium Hydro Québec Rez-de-jardin
10:30 AM - 12:00 PM	CICN Parallel Event Conference of the Canadian Industrial Consortium in Nanotechnology (CICN) Business challenges in nanotechnology Chair: <ul style="list-style-type: none"> ▪ Sabin Boily Director of Innovation and Industry Relations, École de technologie supérieure (ÉTS) (Canada) Speakers: <ul style="list-style-type: none"> • Jacques Mallette Chair, Board of Directors, Canadian Industrial Consortium in Nanotechnology (CICN) (Canada) • Craig Crawford President & CEO, Ontario BioAuto Council (Canada) ▪ Rina Carlini Chair, Industry Relations, NanoOntario Founder and Principal, Optimal Science Consulting (Canada) 	Salon Deloitte 4 th Floor Simultaneous translation will not be offered during this conference

PRELIMINARY PROGRAM (as at October 23, 2012)

THURSDAY NOVEMBER 1st, 2012 (cont'd)

TIME	ACTIVITIES	ROOM (SUBJECT TO CHANGE)
10:30 AM - 12:00 PM	<p>Choice of parallel sessions (each session consists of 3 oral presentations). Oral communications will be in English. Simultaneous translation will not be offered during parallel sessions. Only the names of presenters are indicated on the program. A complete set of Abstracts, including all authors and affiliations, will be available onsite.</p> <p>Parallel Session I TOXICITY: NEW METHODS, NEW CONCEPTS Moderator: Serge KOUASSI University of Montreal (Canada)</p> <ul style="list-style-type: none"> ▪ <i>Transport and fate of quantum dots and model polystyrene nanoparticles in model groundwater environments</i> Ivan Quevedo, Student, Department of Chemical Engineering, McGill University (Canada) ▪ <i>Interdisciplinary analysis of the impacts of nanotechnologies and their social acceptability</i> Jonathan Genest, Research associate Interdisciplinary Institute for Technological Innovation (3IT), University of Sherbrooke (Canada) ▪ <i>In vitro immunotoxicology of quantum dots and comparison with dissolved cadmium and tellurium</i> Audrey Bruneau, INRS - Institut Armand-Frappier (Canada) <p>Parallel Session II OCCUPATIONAL HEALTH AND SAFETY: HOW TO ADAPT TO NANOTECHNOLOGIES Moderator: Marie-Hélène PARIZEAU Laval University (Canada)</p> <ul style="list-style-type: none"> ▪ <i>Study on the penetration of TiO₂ nanoparticles through protective clothing and gloves in conditions simulating occupational use</i> Ludwig Vinches, PhD Engineering student, Research Team in Work Safety and Industrial Analysis (ÉREST), École de Technologie Supérieure (ÉTS) (Canada) ▪ <i>Human bronchial smooth muscle cells and nanocytotoxic responses to quantum dots exposure: Incidence of lung pathology</i> Lyes Tabet, PhD Toxicology, Université Paris Diderot – Paris 7; postdoctoral fellow, Pharmacology, University of Montreal (Canada) ▪ <i>Integrated and adaptive risk prioritization pilot test for engineered nanoparticles</i> Barthélémy-Hugues Ateme-Nguema, Associate Professor, Management Research and Education Unit, Université du Québec en Abitibi-Témiscamingue (UQAT) (Canada) <p>Parallel Session III INNOVATION, THE ECONOMY, AND THE CHALLENGES OF GLOBALIZATION Moderator: Nadia Capolla NanoQuébec (Canada)</p> <ul style="list-style-type: none"> ▪ Tackling the Grand Challenges: How firms can capture the potential economic value of the nanotechnologies ? Corine Genet, Associate Professor Grenoble École de Management (GEM) (France) Yi Jiang Ph.D. Candidate, Grenoble École de Management (GEM) (France) Caroline Gauthier, Professor, Grenoble École de Management (GEM) (France) ▪ A Game Theoretical Approach to the Study of the Nanotechnology Science-Industry Interactions Elnaz Kanani-Kuchesfehani, PhD Student, Concordia Institute for Information Systems Engineering, Concordia University (Canada) ▪ Impact of Public Funding on the Development of Nanotechnology: A Comparison of Quebec, Canada and the US Leila Tahmooresnejad, PhD candidate, Département de mathématiques et de génie industriel, École Polytechnique de Montréal (Canada) 	<p>IBM Amphitheatre Rez-de-jardin</p> <p>Salon Tata Communications Rez-de-jardin</p> <p>Salon Investissement Québec Rez-de-jardin</p>

PRELIMINARY PROGRAM (as at October 23, 2012)

THURSDAY NOVEMBER 1st, 2012 (cont'd)

TIME	ACTIVITIES	ROOM (SUBJECT TO CHANGE)
12:00 - 1:30 PM	Lunch	Atrium Hydro Québec Rez-de-jardin
1:30 - 3:00 PM	<p>CICN Parallel Event Conference of the Canadian Industrial Consortium in Nanotechnology (CICN) Responsible development, economic development, and regulation in nanotechnology Chair:</p> <ul style="list-style-type: none"> • Claude Ostiguy Researcher, Institut de recherche Robert-Sauvé en santé et en sécurité du travail (IRSST) (Canada) <p>Speakers:</p> <ul style="list-style-type: none"> ▪ EUROPE Françoise D. Roure Chair, "Technologies and society", General Council of the Economy, Industry, Energy and Technology (Conseil général de l'économie, de l'industrie, de l'énergie et des technologies, CGEJET) (France) ▪ CANADA Jerzy Jurewicz Vice-President Technology Tekna Plasma Systems Inc (Canada) ▪ ASIA Tsing Tang Song Secretary General of the Taiwan Nanotechnology Industry Development Association, and Special Assistant of the Nano Technology Research Center of Taiwan's Industrial Technology Research Institute (ITRI) (Taiwan) 	Salon Deloitte 4 th Floor Simultaneous translation will not be offered during this conference
1:30 - 3:00 PM	<p>Choice of parallel sessions (each session consists of 3 oral presentations). Oral communications will be in English. Simultaneous translation will not be offered during parallel sessions. Only the names of presenters are indicated on the program. A complete set of Abstracts, including all authors and affiliations, will be available onsite.</p> <p>Parallel Session III (cont'd) INNOVATION, THE ECONOMY, AND THE CHALLENGES OF GLOBALIZATION Moderator Marie-Hélène PARIZEAU Université Laval (Canada)</p> <ul style="list-style-type: none"> ▪ The Scientific and Technological Nanotechnology Networks: The Comparison between Canada, Quebec and the United States Catherine Beaudry, Professeure agrégée, Département de mathématiques et de génie industriel École Polytechnique de Montréal (Canada) <p>Parallel Session IV NANOHEALTH: TOWARD PRIVATIZATION OF MEDICAL SERVICES? Moderator: Marie-Hélène PARIZEAU Laval University (Canada)</p> <ul style="list-style-type: none"> ▪ <i>From Nanomedicine to Nanohealth: Conceptualizing the biomedical model proposed by the nanotech revolution</i> Mathieu Noury, PhD candidate, Department of Sociology, University of Montreal (Canada) ▪ <i>From therapy to enhancement: Nanomedicine as a posthuman project?</i> Farid El Moujabber, PhD in Philosophy of Science, Laval University (Canada) 	IBM Amphitheatre Rez-de-jardin

PRELIMINARY PROGRAM (as at October 23, 2012)

THURSDAY NOVEMBER 1st, 2012 (cont'd)

TIME	ACTIVITIES	ROOM (SUBJECT TO CHANGE)
	<p>Parallel Session V RISK MANAGEMENT AND REGULATION IN NANOTECHNOLOGY Moderator: Claude EMOND Université de Montréal (Canada)</p> <ul style="list-style-type: none"> ▪ Nanotechnology in the bio-food sector: The importance of networking for a better assessment of the opportunities and challenges France Brunelle, biochemist, Ph.D., Scientific Advisor expert in biotechnology, Ministère Agriculture, Pêcheries et Alimentation Québec (MAPAQ), Direction de l'appui à la recherche et à l'innovation (Canada) ▪ Broadening cost/risk/benefit analysis Harald Throne-Holst, Forsker II Researcher (PhD) SIFO (National institute for consumer research) (Norway) ▪ International Developments For Nanotechnology Standardization Roland Hosein Chair, Standards Council of Canada Mirror Committee on Nanotechnology to ISO TC 229 on Nanotechnology (Canada) 	Salon Tata Communications Rez-de-jardin
3:00 - 3:30 PM	Networking Break	Atrium Hydro Québec Rez-de-jardin
3:30 - 5:00 PM	<p>Plenary Session 2 From nanomedicine to nanohealth <i>What are the impacts on the health care system?</i></p> <p>Chair:</p> <ul style="list-style-type: none"> ▪ Renaldo Battista Scientific Director, Fonds de recherche du Québec - Santé (FRQS) (Canada) <p>Speakers:</p> <ul style="list-style-type: none"> ▪ Michael Buschmann Professor, Department of Chemical Engineering, École Polytechnique de Montréal (Canada) ▪ Céline Lafontaine Associate Professor, Department of Sociology, Faculty of Arts and Sciences, Université de Montréal (Canada) ▪ Barbara Herr Harthorn Professor of Feminist Studies, Anthropology, and Sociology at UCSB and Principal Investigator and Director, Center for Nanotechnology in Society (CNS) (USA) 	IBM Amphitheatre Rez-de-jardin Simultaneous translation will be offered during this plenary session
5:30 - 6:30 PM	Sponsors' Cocktail (on invitation only)	Salon Deloitte 4 th Floor
5:30 PM	Cocktail Dinner	Atrium Hydro Québec Rez-de-jardin

PRELIMINARY PROGRAM (as at October 23, 2012)**FRIDAY NOVEMBER 2, 2012**

TIME	ACTIVITIES	ROOM (SUBJECT TO CHANGE)
7:30 AM	Registration	Espace Banque Royale Rez-de-jardin
8:00 - 10:00 AM	<p>Plenary Session 3 Governance: what are the responsibilities of the various players? The challenge of governance as regards nanotechnology</p> <p>Panel discussion with question period Moderator:</p> <ul style="list-style-type: none"> ▪ Rémi Quirion Chief scientist of Quebec, Fonds de recherche du Québec (Canada) <p>Panellists:</p> <ul style="list-style-type: none"> ▪ Shuichi Iwata Professor, Graduate School of Project Design, and Member of Science Council of Japan (SCJ) (Japan) ▪ Philippe Martin Directorate General for Health and Consumers, European Commission (SANCO) (Belgium) ▪ Roland Hosein Chair, Standards Council of Canada Mirror Committee on Nanotechnology to ISO TC 229 on Nanotechnology (Canada) ▪ Lori Sheremeta Advisor, Strategy and External Relations, National Institute for Nanotechnology and Nanotechnology Research and Development Counsel, Faculty of Engineering, University of Alberta (Canada) ▪ Mohamed Chaker President, Scientific Affairs Committee, NanoQuébec (Canada) 	<p>IBM Amphitheatre Rez-de-jardin</p> <p>Simultaneous translation will be offered during this plenary session</p>
10:00 - 10:30 AM	Networking Break	Atrium Hydro Québec Rez-de-jardin

PRELIMINARY PROGRAM (as at October 23, 2012)

FRIDAY NOVEMBER 2, 2012 (cont'd)

TIME	ACTIVITIES	ROOM (SUBJECT TO CHANGE)
10:30 AM - 12:00 PM	<p>Choice of parallel sessions (each session consists of 3 oral presentations).</p> <p>Oral communications will be in English. Simultaneous translation will not be offered during parallel sessions. Only the names of presenters are indicated on the program. A complete set of Abstracts, including all authors and affiliations, will be available onsite.</p> <p>Parallel Session I TOXICITY: NEW METHODS, NEW CONCEPTS Moderator: Claude ÉMOND University of Montreal (Canada)</p> <ul style="list-style-type: none"> ▪ <i>Susceptibility of the immune system in three animal models exposed to silver nanoparticles (AgNPs)</i> Audrey Bruneau, INRS - Institut Armand-Frappier (Canada) ▪ <i>Tools for analysing the impact and social acceptability of nanotechnologies</i> Danielle Tapin, MSc Chemistry, MA, DESS Toxicology, University of Sherbrooke (Canada) ▪ <i>Determination of biosecurity in nanoparticles: Greater attention to assay interferences</i> Lyes Tabet, PhD, Toxicology, Université Paris Diderot – Paris 7; Postdoctoral fellow, Pharmacology, University of Montreal (Canada) <p>Parallel Session VI ETHICS: THE PRECAUTIONARY PRINCIPLE AND SUSTAINABLE DEVELOPMENT OF NANOTECHNOLOGIES Moderator: Alexei GRINBAUM CEA-Saclay/LARSIM (France)</p> <ul style="list-style-type: none"> ▪ <i>Risks of nanotechnologies and resistance of stakeholders</i> Caroline Gauthier, Professor, Grenoble École de Management (GEM) (France) ▪ <i>Ethics theories and S&T governance: Utility evaluation through an ability expectation lens</i> Gregor Wolbring, Associate Professor, Faculty of Medicine, Department of Community Health Sciences, Community Rehabilitation and Disability Studies, University of Calgary (Canada) ▪ <i>Nanotechnology and the precautionary principle</i> Charles-Étienne Daniel, PhD candidate (Law), University of Sherbrooke (Canada) Louise Bernier, Professor, University of Sherbrooke (Canada) <p>Parallel Session VII WHAT MODALITIES COULD BE USED FOR PUBLIC CONSULTATION AND TO WHAT END? Moderator: Louise VANDELAC Université du Québec à Montréal (UQAM) (Canada)</p> <ul style="list-style-type: none"> ▪ <i>Nanotechnology enabling democracy versus democratization of nanotech: An ableism analysis</i> Gregor Wolbring, Associate Professor, Faculty of Medicine, Department of Community Health Sciences, Community Rehabilitation and Disability Studies, University of Calgary (Canada) ▪ <i>Public consultation methods on nanotechnology issues: from national consultation to national education</i> Louis-Étienne Pigeon, PhD candidate (Environmental Ethics, Faculty of Philosophy) and Professor, Science Ethics, Laval University (Canada) ▪ <i>Community Networks and Nanotechnologies</i> Rob Shields, Director, City Region Studies Centre, Henry Marshall Tory Research Chair and Professor, Sociology, Art and Design, University of Alberta (Canada) 	<p>IBM Amphitheatre Rez-de-jardin</p> <p>Salon Investissement Québec Rez-de-jardin</p> <p>Salon Tata Communications Rez-de-jardin</p>

FRIDAY NOVEMBER 2, 2012 (cont'd)

TIME	ACTIVITIES	ROOM (SUBJECT TO CHANGE)
3:30 - 5:00 PM	<p>Plenary Session 4 Public consultation Presentation of various deliberative approaches</p> <p>Chair:</p> <ul style="list-style-type: none"> ▪ Ghislaine Cleret de Langavant Deputy Health Commissioner, Responsible for ethics , Health and Welfare Commissioner of Quebec (Canada) (Canada) <p>Speakers:</p> <ul style="list-style-type: none"> ▪ Marie-Hélène Parizeau Professor, Faculty of Philosophy, Laval University (Canada) ▪ Françoise D. Roue Chair, "Technologies and society", General Council of the Economy, Industry, Energy and Technology (Conseil général de l'économie, de l'industrie, de l'énergie et des technologies, CGEJET) (France) ▪ Lerwen Liu Managing Director, NanoGlobe Pte Ltd. and Secretary, Asia Nano Forum (ANF) (Singapore) 	<p>IBM Amphitheatre Rez-de-jardin</p> <p>Simultaneous translation will be offered during this plenary session</p>
5:00 PM	<p>Closing</p> <ul style="list-style-type: none"> ▪ Charles-Anica Endo Executive Director, Ne³LS Network (Canada) 	<p>IBM Amphitheatre Rez-de-jardin</p> <p>Simultaneous translation will be offered during this plenary session</p>