



# Collaboration Strategies Workshop on Bioenergy and Bioeconomy

Feb 23<sup>rd</sup> 2017

University of British Columbia, Vancouver

# Workshop Program

Thursday, Feb 23<sup>rd</sup> 2017

Room 102, 2360 East Mall, University of British Columbia, Vancouver, V6T 1Z3

Breakfast and Lunch provided

**8:00 - 8:30**      **Registration and breakfast networking**

**Session Chair**   **Xiaotao (Tony) Bi**

**8:30 - 8:45**      **Opening** – Organizing Committee

**8:45 - 9:00**      **Welcome speech**

*Speakers:* Marc Parlange, Professor and Dean, Faculty of Applied Science, UBC

Weiwei Kong, Deputy Consul General, Chinese Consulate General in Vancouver

**9:00 - 9:20**      **B.C.'s Canada-China business and trade**

*Speaker:* Christian Hansen, Regional Director and Senior Trade Commissioner, Pacific Regional Office - Vancouver, Global Affairs Canada

**9:20 - 9:40**      **B.C.'s clean energy and climate change strategies**

*Speaker:* Stephen Brydon, Director, Innovative Clean Energy (ICE) Fund, B.C. Ministry of Energy and Mines

**9:40 - 10:00**    **Advancing clean technology and energy innovation in Canada**

*Speaker:* Alex MacLeod, Senior Science & Technology Advisor, Office of Energy Research and Development, Natural Resources Canada

**10:00 - 10:20**   **IEA report on China's bioenergy status**

*Speaker:* Jack Saddler, Professor, UBC; Task Leader, IEA Bioenergy Task 39, Liquid Biofuels

**10:20 - 10:45**   **Coffee break**

**Session Chair**   **Cliff Mui**

**10:45 - 11:00**   **NCE program overview**

*Speaker:* Kyle Glenn, Senior Advisor, Strategic Initiatives, Office of the Vice President Research, UBC

**11:00 - 11:15**   **NSERC Strategic Network program overview**

*Speaker:* Rick Warner, Manager, Natural Science and Engineering Research Council of Canada (NSERC) Pacific Office

**11:15 - 11:30** **China's international clean energy collaboration programs**  
*Speaker:* Guojing Liu, Program Officer, Division of American and Oceanian Affairs, Department of International Cooperation, China Ministry of Science and Technology

**11:30 - 11:45** **Canada-India collaboration experience**  
*Speaker:* Ashish Mohan, Manager of Communications, the India-Canada Centre for Innovative Multidisciplinary Partnerships to Accelerate Community Transformation and Sustainability (IC-IMPACTS)

**11:45 - 12:00** **Canada-China bioenergy collaboration experience**  
*Speaker:* Xiaotao (Tony) Bi, Professor, UBC; Director, C-CJCBERI

**12:00 - 1:00** **Lunch break - Atrium**  
**Canada's Asia-Pacific business and trade strategies**  
*Speaker:* Stewart Beck, President and CEO, Asia Pacific Foundation of Canada

**Session Chair** **Jack Saddler**

**1:00 - 1:15** **Proposal for a China-Canada Collaborative NCE and NSERC Strategic Network – Organizing Committee**

**1:15 - 2:15** **Discussions and specific plans**

**2:15 - 2:40** **Coffee break**

**2:40 - 3:30** Parallel discussion 1 - Room 102  
**Opportunities and challenges on bioenergy technologies**  
**Moderator: Xuantian Li**

Parallel discussion 2 - Room 202  
**Opportunities and challenges on bioenergy supply and commercialization**

**Moderator: Douglas Singbeil**

Parallel discussion 3 - Room 204  
**Opportunities and challenges on bioenergy policy, market and trade development**

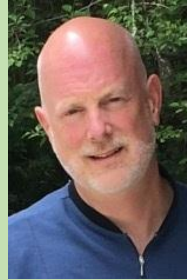
**Moderator: Jamie Stephen**

**3:30 - 4:00** **Summary, future plans and closing remarks**

## Organizing Committee



**Xiaotao (Tony) Bi, Ph.D., PEng,**  
Fellow of Canadian Academy of  
Engineering  
Professor, University of British  
Columbia  
Director, C-CJCBERI



**Dan Green**  
Executive Director, Innovative  
Clean Energy (ICE) Fund, B.C.  
Ministry of Energy and Mines



**Xuantian Li, Ph.D.**  
Principal Engineer and Group  
Leader, NORAM Engineering and  
Constructors Ltd.



**Cliff Mui, MSc, PEng**  
VP Product Development,  
Nexterra Systems Corp.



**Jack Saddler, Ph.D., Fellow of the  
Royal Society of Canada**  
Professor, University of British  
Columbia  
Task Leader, IEA Bioenergy Task  
39, Liquid Biofuels



**Douglas Singbeil, Ph.D.**  
Research Manager, Process  
Engineering, FPIInnovations



**Jamie Stephen, Ph.D.**  
Managing Director, TorchLight  
Bioresources Inc.

## Speakers



**Marc Parlange, Ph.D.**

**Professor and Dean, Faculty of Applied Science, University of British Columbia**

Prior to assuming his position at UBC in 2013, Dr. Marc Parlange served as Dean of the School of Architecture, Civil and Environmental Engineering at the École Polytechnique Fédérale de Lausanne, and held faculty appointments at Johns Hopkins University and the University of California at Davis. His research in the broad area of environmental fluid mechanics primarily relates to the measurement and simulation of air and water flows over complex terrain, with a focus on how air turbulence and atmospheric dynamics influence water evaporation and transpiration in plants and soil. He is also active in addressing water resources challenges in remote communities through his research on hydrology and climate change.



**Weiwei Kong**

**Deputy Consul General, Consulate-General of the People's Republic of China in Vancouver**

Mr. Kong Weiwei was born in Zhejiang Province of the People's Republic of China. He graduated from the Biology Department of Hangzhou University, and later obtained an EMBA from Tsinghua University. He once worked as a secondary school teacher and then served in the Ningbo Municipal Government for 25 years with his last position as the Director General of Foreign Affairs Office of Ningbo. Since December 2016, he's been appointed as Deputy Consul General of China's Consulate General in Vancouver.



**Christian Hansen**

**Regional Director and Senior Trade Commissioner, Pacific Regional Office - Vancouver, Global Affairs Canada (GAC)**

Mr. Christian Hansen became a Canadian Foreign Service officer in 1995 and has served in Ottawa, Osaka, Oslo, Vancouver, and at Canada's Mission to the European Union in Brussels. He holds a Bachelor of Commerce (Finance) from the University of British Columbia and Master of Public Policy (International Relations) from Princeton. His academic interests include border management, transportation security, and trade facilitation. Christian is the Regional Director and Senior Trade Commissioner at the Pacific Regional Office of Global Affairs Canada. In this role he leads a team of 17 Trade Commissioners in supporting the international business of clients in British Columbia and Yukon.



**Stephen Brydon**

**Director, Innovative Clean Energy (ICE) Fund, B.C. Ministry of Energy and Mines**

Mr. Stephen Brydon is Director of the Innovative Clean Energy (ICE) Fund, Ministry of Energy & Mines. The ICE Fund is a Special Account, funded through a levy on certain energy sales, designed to support the Province's energy, economic, environmental and greenhouse gas reduction priorities, and to advance B.C.'s clean energy sector. Mr. Brydon joined the Ministry in June 2016 from BC Transit where for the past nine years he was Manager, Environment & Climate Action responsible for environmental risk management and compliance. Prior to joining BC Transit, he worked for 16 years in the BC Public Service in a number of provincial government ministries (including Energy & Mines) and crown agencies (including BC Hydro) with a focus on clean energy innovation, clean transportation technologies, economic development, trade and investment.



## Speakers



**Alex MacLeod, Ph.D.**

**Senior Science and Technology Advisor, Office of Energy Research and Development, Natural Resources Canada**

Dr. Alex MacLeod is the Senior Science and Technology Advisor at Natural Resource Canada and a Canadian member of the IEA Bioenergy Technology Collaboration Programme Executive Committee. He is leading /involved in a range of activities including the provision of scientific advice, networking with academia, provinces, industry and international proponents, developing strategies, managing R&D and demonstration funding, evaluating proposals and projects, and advising senior management. Previously he worked as a petroleum microbiologist at Natural Resources Canada and as a research scientist in the domain of anaerobic digestion at the National Research Council of Canada.



**Jack Saddler, Ph.D., Fellow of the Royal Society of Canada**

**Professor, University of British Columbia; Task Leader, IEA Bioenergy Task 39, Liquid Biofuels**

Dr. Jack Saddler is the endowed Professor of Forest Products Biotechnology / Bioenergy. Nationally, his influence extends to such bodies as the Science Directorate of the Canadian Forest Service, the Canadian Council of Forests Ministers, and the National Roundtable on Economy and Environment. Internationally, he has contributed significantly to the work of VTT, the Swedish VINNOVA innovations program, the UN's Food and Agricultural Organization (FAO), the US DoE and USDA. He has acted as the Task Leader of the Liquid Biofuels network of IEA Bioenergy organization for the last ten years. He recently returned from Renewable Energy Division, IEA Paris, reviewing their projects for bioenergy/biofuels use until 2050. He is also a member of the Markus Wallenberg Prize selection committee, the forest sectors Nobel Prize.



**Kyle Glenn, Ph.D.**

**Senior Advisor, Strategic Initiatives, Office of the Vice President Research, University of British Columbia**

After a decade of research in marine science, Dr. Kyle Glenn transitioned from performing research to enabling and supporting large-scale research programs across all academic disciplines. In his previous role at the Tula Foundation, he developed multi-partnered research programs at Universities across BC (\$15M per year). Dr. Glenn now works for the Vice-President Research at UBC to operationalize institutional research priorities, enable and support research excellence across all disciplines, and support teams applying for large-scale or institutional research grants.



**Rick Warner**

**Manager, Natural Science and Engineering Research Council of Canada (NSERC) Pacific Office**

Mr. Rick Warner has managed science and technology-based projects and initiatives in British Columbia in industry, post-secondary institutes and government since 1984. He worked as the Director of Programs for BC Innovation Council; Director of Technology Transfer at Vancouver Island University; on curriculum development and research management at Simon Fraser University; and Managing Director at the Mitchell Odyssey Foundation during its first three years of operation. Since May of 2006 he has been the Manager of NSERC-Pacific that currently focuses on the delivery of NSERC's Research Partnership programs especially Engage, Connect and Experience.

## Speakers



**Guojing Liu**

**Program Officer, Division of American and Oceanian Affairs, Department of International Cooperation, China Ministry of Science and Technology**

Ms. Liu Guojing is a program officer from Division of American and Oceanian Affairs, Department of International Cooperation, Ministry of Science and Technology (MOST) of the People's Republic of China. She keeps frequent contact with the departments that manage science, technology and innovation development of Canada, Australia and New Zealand, to enhance MOST's exchange and collaboration with its counterparts in these three countries.



**Ashish Mohan**

**Manager of Communications, the India-Canada Centre for Innovative Multidisciplinary Partnerships to Accelerate Community Transformation and Sustainability (IC-IMPACTS)**

Mr. Ashish Mohan is a communication professional who specializes in developing creative and engaging content. Ashish has nearly 10 years of communication experience in environmental and community-focused organizations. He led communication and design at an energy startup to lower energy usage in residential homes, drove public education efforts to usher in new municipal composting programs for the City of Vancouver, and aided in several environmental initiatives at David Suzuki Foundation. He has also worked federally in the Plant Health Division of the Canadian Food Inspection Agency.



**Xiaotao (Tony) Bi, Ph.D., PEng, Fellow of Canadian Academy of Engineering  
Professor, University of British Columbia; Director, C-CJCBERI**

Dr. Xiaotao Bi is a leading expert in the field of fluidization and multiphase reactor systems. He is the Director of C-CJCBERI and also serves as the Associate Director of UBC Clean Energy Research Centre (CERC) and the Manager of the UBC Fluidization Research Centre (FRC). He has outstanding achievements in the advancement of fluidization engineering, particularly flow regimes, choking, electrostatics, and dynamic signal interpretation. He has also made significant contributions to broad areas of engineering practice: thermochemical conversion of forest biomass residues, development of next generation torrefied wood pellets, life cycle analysis of biomass and bioenergy systems, and integration of biomass energy systems for greenhouse gas emission reduction and local air quality improvement.



**Stewart Beck**

**President and CEO, Asia Pacific Foundation of Canada**

Prior to joining APF Canada, Mr. Stewart Beck served as the Canadian High Commissioner to the Republic of India with concurrent accreditation to the Kingdom of Bhutan and to Nepal. He joined the Department of External Affairs and International Trade in 1982 and served abroad in the United States, Taiwan, and the People's Republic of China. In Ottawa, he held a number of positions, including Director General of the North Asia Bureau, Director General Responsible for Senior Management and Rotational Assignments and Assistant Deputy Minister for International Business Development, Investment, and Innovation. He was Consul General in Shanghai and prior to his posting to India, he was Consul General in San Francisco.



## Organizers



**China-Canada Joint Centre for  
BioEnergy Research and Innovation**



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## Sponsors



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**THE UNIVERSITY OF BRITISH COLUMBIA**

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