

10 Years After the Crisis: Modelling Meets Policy Making

January 14 - 16, 2019, [The Fields Institute](#)

Location: Fields Institute, Room 230

Description

The 2008 financial crisis posed unprecedented challenges to practitioners and policy makers around the world. Researchers responded in tandem by re-examining the approaches to model financial markets and their interactions with the real economy. Agent-based models, networks, dynamical systems, and mean-field games, and several other techniques became part of the emerging research area of systemic risk alongside more traditional economic models.

The Fields Institute played a leading role in these developments, having hosted numerous workshops and meetings on financial stability, mathematics for new economic thinking, monetary and fiscal policy, and market microstructure. More recently, as part of the new CQAM initiative, the Institute launched a new lab on Systemic Risk Analytics to take research in this area to a new level, including the novel applications of machine learning and blockchain technologies.

In this workshop, organized jointly with the New Approaches to Economic Challenges (NAEC) of the Organisation for Economic Co-operation and Development (OECD), the Fields Institute will host leading academic experts and policy makers to reflect on the lessons learned over the past 10 years. The workshop will be an opportunity to discuss recent advances in modelling of financial system with the aim of a sustainable, inclusive and stable economy. Topics will include heterogeneous agents, network models, growth and sustainability, income and wealth inequality, financial stability, and



10 YEARS AFTER THE CRISIS

MODELLING MEETS POLICY MAKING

THE FIELDS INSTITUTE
JAN 14 - 16, 2019

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14 JAN 14 10:00 AM - 12:00 PM
15 JAN 15 9:00 AM - 12:00 PM
16 JAN 16 9:00 AM - 12:00 PM

To register, please visit [http://www.fields.utoronto.ca/activities/18-19/crisis](#)







Organizing Committee

Matheus Grasselli - McMaster University

William Hynes - OECD

Alan Kirman - EHESS, Paris

Quick Links:

[Detailed Schedule](#)

[Fields Contact: Brittany Camp](#)

WARNING – SCAM ALERT:

[Exhibitor Housing Services](#)

[\(EHS\) also known as Exhibitor Housing Management \(EHM\).](#)

[Read more here.](#)

effective regulation.

It is expected that workshop will promote long-term collaborations between researchers from NAEC and the Fields Institute and Canadian regulators and policy makers, including groups at the Finance Ministry, the Bank of Canada, the Office of the Superintendent of Financial Institutions (OSFI), and the Canadian Securities Transition Office (CSTO).

The first day of the workshop will feature mini-courses targeted towards graduate students, postdoctoral fellows and other young researchers. For more information on the schedule, please [click here](#).

Schedule

Monday, January 14th, 2019	
09:00 to 10:00	Mini-course 1: Complexity Economics Alan Kirman, NAEC Initiative
10:00 to 10:30	Break
10:30 to 12:30	Mini-course 2: Agent-Based Models in Economics Blake LeBaron, Brandeis International Business School and Alissa Kleinnijenhuis, University of Oxford
12:30 to 14:00	Lunch
14:00 to 15:00	Mini-course 3: Asset Price Bubbles: Economics, Mathematics, and Statistics Matheus Grasselli, McMaster University
15:00 to 15:15	Break
15:15 to 16:15	Mini-course 4: Networks and Systemic Risk Thomas Hurd, McMaster University
16:15 to 16:30	Break
16:30 to 17:30	Mini-course 5: Blockchains and Distributed Ledgers in Retrospective and Perspective Alex Lipton, Co-Founder and CTO, Silamoney and MIT
Tuesday, January 15th, 2019	
09:00 to 09:15	Opening Ian Hambleton, Director, Fields Institute
09:15 to 10:45	Session 1: New Economic and Financial Thinking Alan Kirman, Chief Advisor to the NAEC Initiative, John Geanakoplos, Department of Economics, Yale University, Ian Buckley, Risk Specialist, Canadian

Scheduled as part of

Centre for Quantitative Analysis and Modelling

Centre for Financial Industries

	Securities Transition Office
10:45 to 11:00	Break
11:00 to 12:30	<p>Session 2 : Complexity of the Financial System I - ABM Blake LeBaron, Brandeis International Business School, Alissa Kleinnijenhuis, Mathematical Institute, University of Oxford, Julian Karaguesian, Special Advisor, Finance Canada</p>
12:30 to 14:00	Lunch
14:00 to 15:30	<p>Session 3 : Cyber-security and the Financial System Michael Zerbs, Group Head & Chief Technology Officer, Scotiabank, Alex Lipton, Co-Founder and CTO, Silamoney and MIT, Filipe Dinis, Chief Operating Officer, Bank of Canada</p>
15:30 to 16:00	Break
16:00 to 17:30	<p>Session 4 : Complexity of the Financial System II - Networks Celso Brunetti, Chief of Systemic Financial Institutions and Markets Section Board of Governors of the Federal Reserve System, Grzegorz Halaj, Principal Researcher, Bank of Canada, Thomas Hurd, Professor of Mathematics & Statistics, McMaster University</p>
17:30	Reception
Wednesday, January 16th, 2019	
09:30 to 11:00	<p>Session 5: Financialisation and Inequality Lars Osberg, Department of Economics, Dalhousie University, Steven Pressman, Department of Economics, Colorado State University, and Mario Seccareccia, Department of Economics, University of Ottawa</p>
11:00 to 11:30	Break
11:30 to 13:00	<p>Session 6: Climate Finance Florent Mclsaac, Agence Française de Développement, Ron Dembo, Zerofootprint, and Blair Feltmate, Head of the Intact Centre on Climate Adaptation (Intact Centre)</p>
13:00 to 14:30	Lunch
14:30 to 15:30	<p>Keynote Lecture - Behavioural Finance Andrew Lo, Charles E. and Susan T. Harris Professor, MIT Sloan</p>

15:30 to 16:00 Break

Session 8 : Are We Ready for the Next Crisis?

Jean-Francois Nadeau, Director of Macroeconomics

16:00 to 17:30

Analysis, Finance Canada, Virginie Traclet, Senior Director, Financial Markets Department, Bank of Canada & William White, Senior Fellow, Howe Institute, Toronto

> Invited Speakers

> Registered Participants

WHO WE ARE

The Fields Institute is a centre for mathematical research activity - a place where mathematicians from Canada and abroad, from academia, business, industry and financial institutions, can come together to carry out research and formulate problems of mutual interest. Our mission is to provide a supportive and stimulating environment for mathematics innovation and education. [Learn more about us.](#)

The Fields Institute promotes mathematical activity in Canada and helps to expand the application of mathematics in modern society.

Everyone is welcome to register and participate in events at the Fields Institute.

Find us on the following social media sites.



E-mail: inquiries@fields.utoronto.ca

Contacting the Institute, Staff, and Visiting
Members of the Fields Institute.

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