



THE FIELDS INSTITUTE

Short Thematic Program on **DELAY**
MAY 2015 **DIFFERENTIAL**
EQUATIONS

The program will be run in May 2015, and will be organized along sub-themes, each typically consisting of a **short introductory course**, an **opening talk** covering the main issues of the sub-theme in a format suitable for general participants including graduate students, a number of **invited talks** to cover the subject in depth, an afternoon poster session for graduate students, **panel discussions** with focus for future directions, and some **public lectures** focusing on applications.

There will be a session dedicated to knowledge translation and transfer, and Professor John Mallet-Paret (Brown University) will give the Distinguished Lecture Series associated with thematic program.

It is hoped that the invited presentations combined will provide a comprehensive picture of the current status including most recent progress in the sub-theme and the entire field. The primary goal of these presentations and discussions is to generate synergy among these sub-themes, every effort is being and will be made to make sure that the sub-thematic areas combined will provide a global picture of the frontiers and future directions in nonlinear dynamics of **delay differential equations**.

Organizing Committee

Sue Ann Campbell (Waterloo)
Odo Diekmann (Utrecht)
Stephen Gourley (Surrey)
Yuliya Kyrychko (Sussex)
Michael Mackey (McGill)
Eckehard Schöll (TU Berlin)
Hans-Otto Walther (Giessen)
Glenn Webb (Vanderbilt)
Jianhong Wu (York)

MAY 4-8, 2015

DIFFERENTIAL EQUATIONS WITH VARIABLE DELAY

Thematic leader: Hans-Otto Walther (Giessen)

Opening talk, Roger Nussbaum (Rutgers)
Introduction to state-dependent DDEs, Tibor Krisztin (Szeged)
Distinguished Lecture, John Mallet-Paret (Brown)

MAY 11-15, 2015

DELAY-DIFFERENTIAL EQUATIONS IN PHYSICAL SCIENCES AND ENGINEERING

Thematic leaders: Eckehard Schöll (TU Berlin), Yuliya Kyrychko (Sussex)

Opening talk, Ingo Fischer (Palma)
Public lecture, Gabor Stepan (Budapest)

MAY 19-22, 2015

STRUCTURED DELAY SYSTEMS

Thematic leaders: Odo Diekmann (Utrecht), Glenn Webb (Vanderbilt)

Opening talk by Odo Diekman (Utrecht)
Introduction to non-local delayed systems, Xingfu Zou (Western)

MAY 25-29, 2015

DELAY DIFFERENTIAL EQUATIONS IN LIFE SCIENCES AND MEDICINE

Thematic leader: Michael Mackey (McGill)

Opening talk and Public Lecture, Michael Mackey (McGill)

Knowledge Translation Lecture, John Milton (Claremont)
Knowledge Translation from Neuroscience to High Dimensional Data Clustering: Theory and Applications of the Projective Clustering

For more information, please visit:
www.fields.utoronto.ca/programs/scientific/14-15/DDE



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THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

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