



**首都大学東京 数電機連携 国際ワークショップ  
& シンポジウム February 18-19, 2010**  
 首都大学東京南大沢キャンパス, 12号館101教室, 国際交流会館中会議室

平成21年度採択 組織的な大学院教育改革推進プログラム(大学院GP)「理工横断型人材育成システムの再構築」推進室主催

# Workshop and Symposium on Mathematics in the *Real* world



"Study Groups with Industry" began in Oxford in 1968. They are now well-established in the United Kingdom, and internationally, as a model of academic-industry cooperation. At the Workshop, Professor Chris Budd will give an introduction to "Study Groups with Industry", followed by a mini-Study Group with sample problems. Students and researchers in areas related to mathematics and engineering, and anyone with an interest in academic-industry cooperation, are warmly invited to take part. The Symposium will focus on applications of mathematics in the "real world", with an emphasis on problems arising in present-day society.

**Workshop Registration:** Participants in the mini-Study Group are strongly advised to register in advance (see "Workshop Registration" at <http://www.eee.tmu.ac.jp/mem/>). Lunch will be provided to all participants whose registration has been confirmed by the GP Office.

## SCHEDULE

**Keynote Speech and Workshop:** Thursday, February 18  
 Room 101, Building No. 12 (Minami-Ohsawa Campus)

**Speaker: Chris Budd** (Professor of Applied Mathematics at the University of Bath; Director of the Bath Institute for Complex Systems; Professor of Mathematics at the Royal Institution of Great Britain)

- 10:00-10:05 Opening remarks
- 10:05-10:45 Keynote Speech:  
Introduction to "Study Groups with Industry"  
Chris Budd (School of Mathematical Sciences, University of Bath)
- \*\*\* Break \*\*\*
- 11:00-17:00 Workshop
- 11:00-12:00 mini-Study Group (part 1)
- \*\*\* Lunch and refreshments \*\*\*
- 13:30-15:00 mini-Study Group (part 2)
- \*\*\* Refreshments \*\*\*
- 15:30-17:00 mini-Study Group (part 3)
- 17:00-18:00 mini-Banquet

**Student presentations and Symposium:** Friday, February 19  
 Conference Room of International House (Minami-Ohsawa Campus)

- 10:00-12:00 GP Student presentations
- \*\*\* Lunch and refreshments \*\*\*
- 13:30-17:30 Symposium on "Mathematics in Engineering"
- 13:30-13:35 Opening remarks
- 13:40-14:40 "Confessions of an industrial mathematician"  
Chris Budd (School of Mathematical Sciences, University of Bath)
- \*\*\* Refreshments \*\*\*
- 15:00-16:00 "Simple and handy mathematics: cellular automata, life game"  
Daisuke Furihata (Cybermedia Center, Osaka University)
- \*\*\* Refreshments \*\*\*
- 16:30-17:30 "Jamology: traffic jam of self-driven particles"  
Katsuhiro Nishinari (Research Center for Advanced Science and Technology, University of Tokyo)
- \*\*\* Discussion and refreshments \*\*\*
- Closing remarks

Sponsored by Interdisciplinary Graduate Program in Mathematical Science and Engineering, T.M.U.  
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