

Interdisciplinary CAS Spring Symposium

Showcasing Research of CAS Associates and Fellows

April 20–21, 2015

At the intellectual heart of the University lies the Center for Advanced Study, bringing together scholars from diverse disciplines and backgrounds, encouraging and rewarding excellence in all areas of academic inquiry.

CAS appointments are among the highest forms of campus recognition. CAS Professors, permanent members of the Center are joined each year by Associates and Fellows, tenured and untenured University of Illinois faculty who are awarded one semester release time to pursue their projects. In accordance with the Center's mission, these appointments provide an incentive to pursue the highest level of scholarly achievement. They also provide faculty members with an unusual opportunity to explore new ideas and demonstrate early results.

Join recent CAS Associates and Fellows at this inaugural symposium as they present work made possible through these appointments.

Knight Auditorium, Spurlock Museum
600 South Gregory, Urbana
University of Illinois at Urbana-Champaign

Monday, April 20

- 8:00 am Continental Breakfast
- 8:30 am **INTRODUCTORY REMARKS**
Peter Schiffer, Vice Chancellor for Research
- 8:40 am **DIRECTORS PANEL ON INTERDISCIPLINARY RESEARCH AT ILLINOIS: Tamer Başar**, CAS Director (Moderator), with **Dianne Harris** (IPRH), **Art Kramer** (Beckman Institute), **Gene Robinson** (IGB), **Edward Seidel** (NCSA)
- 10:50 am **SESSION ONE: David Ceperley**, CAS Professor (Chair) **Wendy Cho** (Political Science), *An Extreme-Scale Computational Approach to Redistricting Optimization* **Charles Schroeder** (Chemical and Biomolecular Engineering), *New Frontiers in Single Polymer Dynamics* **Robert Brunner** (Astronomy), *Statistical and Machine Learning for Petascale Astronomy*
- 1:40 pm **SESSION TWO: Maria Todorova**, CAS Professor (Chair) **Harry Liebersohn** (History), *The Globalization of Music* **Antonios Augoustakis** (Classics), *Death, Burial, and Ritual in Latin Literature* **Matthew Winters** (Political Science), *The Effects of Branded Foreign Aid: Evidence from Bangladesh*
- 3:30 pm **SESSION THREE: Laura Greene**, CAS Professor (Chair) **Soon-Jo Chung** (Aerospace Engineering), *Control and Sensing Strategies for Robotic Falcons to Prevent Airport Bird Strikes* **Martin Ostoja-Starzewski** (Mechanical Science and Engineering), *Continuum Mechanics Beyond the Second Law of Thermodynamics* **Karin Dahmen** (Physics), *Crackling Noise: From Nanopillars to Earthquakes*

Reception to follow

Tuesday, April 21

- 8:00 am Continental Breakfast
- 8:30 am **WELCOMING REMARKS: Tamer Başar**, CAS Director
- 8:40 am **SESSION FOUR: Nigel Goldenfeld**, CAS Professor (Chair) **Catherine Prendergast** (English), *Writer, Painter, Banker, Thief: The American Arts Colony in the Public Account* **Yi Lu** (Electrical and Computer Engineering), *To Wait or not to Wait: The Power of Scheduling*
- 10:00 am **SESSION FIVE: Nigel Goldenfeld**, CAS Professor (Chair) **Philip Godfrey** (Computer Science), *Networking at the Speed of Light* **Yi Lu** (Chemistry), *Functional DNA Nanotechnology and its Applications in Environmental Monitoring, Food Safety, Medical Diagnostics and Imaging* **Mara Wade** (Germanic Languages and Literatures), *Emblems and Early Modern Intellectual Networks*
- 11:30 am Closing of Symposium

Free and open to the public. cas.illinois.edu

