2nd Annual Postdoctoral Research Symposium
University of Illinois

Beckman Institute, University of Illinois at Urbana-Champaign
January 27, 2012

Organizers: Hongmei Li, Taras Pogorelov, Yekaterina Golubeva, Evelina Tapia, Koushik Ghosh

Sponsors: Beckman Institute, Graduate College, Engineering College, Chancellor’s Office, and Institute for Genomic Biology

Beckman Foyer near Auditorium and Room 1005: Registration
8:00 – 8:40  Registration and coffee
Posters up from 8:45 am to 6:30 pm

Auditorium: Opening remarks and Keynote address
8:45 – 8:50  Welcome - Society of Postdoctoral Scholars, Hongmei Li
8:50 – 8:55  Remarks - Postdoctoral Affairs Office, Alexis Thompson
9:00 – 10:00  Keynote - Prof. John A. Rogers
   Materials and Mechanics for Bio-integrated Electronics

Auditorium: Talks, Session 1
Chair: Mary Laws
10:00 – 10:15  Mary Laws
   Perturbation of Estrogen Receptor Signaling in the Hypothalamic-pituitary-ovarian Axis Leads to Ovarian Tumorigenesis in Mice (1.1)
10:15 – 10:30  Sunil Mathanker
   Biomass Yield Estimation Using LIDAR and Load Cells (1.2)
10:30 – 10:45  Craig Yendrek
   Comparing the Ozone Response of Five Agriculturally Important Legume Species (1.3)
10:45 – 11:00  James Sikes
   Exploring the Evolutionary Loss of Regeneration: A Comparative Genomics Study in Planarians (1.4)

Beckman Foyer near Auditorium and Room 1005: Break
11:00 – 11:20  Break: Coffee, tea, water

Auditorium: Talks, Session 2
Chair: Christopher Jones
11:20 – 11:35  Christopher Jones
   Memory for Intended and Enacted Behaviors (2.1)
11:35 – 11:50  Sharlene Denos
   Illinois Researchers in Partnership with Science Educators (iRISE): A New Model for Training Science and Engineering Graduate Students in Education and Outreach (2.2)
11:50 – 12:05  Justin Olmanson
   Wayfaring Toward Possibility: Methodological and Analytical Sideways Moves in Social Science Research (2.3)
12:05 – 12:20  Ilia Solov’yov
*Magnetoreception Mechanisms in Birds: Toward the Discovery of the Sixth Sense (2.4)*

**Room 1005: Lunch**
12:20 – 1:10  Lunch

**Auditorium: Talks, Session 3**
Chair: Wei-Cheng Lee
1:10 – 1:25  Wei-Cheng Lee
*New Route to Superconductivity (3.1)*
1:25 – 1:40  Bernard Lidicky
*Bipartizing Fullerenes (3.2)*
1:40 – 1:55  Narayan Chapagain
*Comparison of Zonal Neutral Winds and EPBs Velocities Over Brazil (3.3)*
1:55 – 2:10  Benjamin Smith
*Machine Listening: ART and the Intelligent Acoustic Interface (3.4)*

**Beckman Atrium: Poster Session**
**Beckman Foyer near Auditorium and Room 1005: Break**
2:10 – 4:00  Poster session (Posters up from 8:45 am to 6:30 pm)
3:00 – 3:20  Break: Coffee, tea, water (parallel with the Poster Session)

**Auditorium: Talks, Session 4**
Chair: Maksym Kryvohuz
4:00 – 4:15  Maksym Kryvohuz
*Calculation of Quantum Reaction Rates via the Instanton Approach (4.1)*
4:15 – 4:30  Michael Slater
*Composite Sodium-Lithium-Transition-Metal Oxides as Cathodes in Alkali-Ion Batteries (4.2)*
4:30 – 4:45  Darya Radziuk
*Ultrasonic Formation of Binary Gold-silver Nanostructures (4.3)*
4:45 – 5:00  Mahmoud Moradi
*Inward-facing to Outward-facing Transition of GlpT Transporter, Studied Using Nonequilibrium Molecular Dynamics Simulations (4.4)*

**Auditorium: Closing Remarks**
5:00 – 5:10  Closing remarks, Taras Pogorelov

**Beckman Atrium: Reception**
5:15-6:15  Reception
Best Talk award
Posters are accessible