

# 2<sup>ND</sup> 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 Hypothalamo-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 Iliia 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