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JOSHUA LEDERBERG - JOHN VON NEUMANN SYMPOSIUM

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SCIENCE FOR THE BENEFIT OF HUMANITY

The Joshua Lederberg – John von Neumann Symposium: Towards Quantitative Biology

Hosted by: The Rockefeller University and The Simons Center for Systems Biology, Institute for Advanced Study

Wednesday, May 18, 2011

10:00 a.m.–6:30 p.m.

Caspary Auditorium, The Rockefeller University

10:00–10:30 a.m.

Registration and Continental Breakfast, *Abby Lounge*

10:30–11:30 a.m.

Maximum Caliber: A Principle for Kinetic Modeling

Ken A. Dill

The Louis and Beatrice Laufer Center for Physical and Quantitative Biology
Stony Brook University

11:30 a.m.–12:30 p.m.

Collective Neural Dynamics and Emergent Animal Behavior

John J. Hopfield

Department of Molecular Biology, Princeton University and
School of Natural Sciences, Institute for Advanced Study

12:30–2:00 p.m.

Buffet Lunch, *Abby Dining Room*

2:00–3:00 p.m.

**Growth Laws and Catabolite Repression: The Emergence of Physiological
Simplicity from Molecular Complexity**

Terence Hwa

Center for Theoretical Biological Physics and Department of Physics
University of California, San Diego

3:00–4:00 p.m.

Connecting the Dots: Propofol, Parkinson's Disease and Brain Rhythms

Nancy Kopell

Center for BioDynamics and Department of Mathematics and Statistics
Boston University

4:00–4:30 p.m.

Coffee/Tea Break, *Abby Lounge*

4:30–5:30 p.m.

**Abstraction for Quantitative Design: How a Computer Scientist
Can Program Molecular Systems**

Erik Winfree

Computer Science, Computation and Neural Systems,
and Bioengineering Departments
Division of Engineering and Applied Science
California Institute of Technology

5:30–6:30 p.m.

Social Hour, *Faculty Club*

For further information regarding the Symposium, please visit our web page at:
<http://www.rockefeller.edu/Lederberg-vonNeumannSymposium>.