

**The Hertz Foundation's
Third Biennial Symposium: *Catalyzing the Future*
March 20-22, 2009**



Schedule:

Friday, March 20

- 8:00 am Registration**
California Ballroom Registration Desk
- 11:30 am Opening Remarks**
John F. Holzrichter, PhD
Hertz Fellow 1971 and President, Fannie and John Hertz Foundation
- 11:40 am Arthur R. Kantrowitz Tribute (1913-2008)**
Hans Mark, PhD
Hertz Director, Professor of Aerospace Engineering and Engineering Mechanics
California Ballroom
- 12:00 pm Lunch**
California Ballroom
- 1:00 pm Speaker, Wanda M. Austin, PhD**
President and CEO, The Aerospace Corporation
Talk:
Introduction by Paul D. Nielsen MG (ret.)
Hertz Fellow 1981 and Director
California Ballroom
- 2:00 pm Speaker, Justin Fox**
Economics Editor-at-Large, *Time Magazine*
Talk: *Is today's Market rational, and was it ever?*
Introduction by M. Michael Ansour, PhD
Hertz Fellow 1978 and Director; Managing Partner, March Partners LLC
California Ballroom
- 3:00 pm Poster Session, Hertz Fellows' PhD Research Discussion**
- 4:30 pm Speaker, Jay Keasling, PhD**
Professor of Chemical Engineering and Bioengineering, UC Berkeley, Director of the Physical Biosciences Division of Lawrence Berkeley National Lab
Talk: *Synthetic Biology: From Bugs to Drugs and Fuels*
Introduction by David J. Galas, PhD
Hertz Fellow 1972 and Chairman of the Board; Professor and Senior VP, Institute for Systems Biology
California Ballroom
- 5:30 pm Poster Session, Hertz Fellows' PhD Research Discussion**

Friday, March 20 (cont.)

6:00 pm **Reception**

7:00 pm **Dinner**
California Ballroom

8:00 pm **Speaker, Bill Gates**
Chairman of Microsoft Corporation, Co-Chair of Bill and Melinda Gates Foundation
Talk:

Introduction by Lowell Wood, PhD
Hertz Director

Saturday, March 21

7:00 am **Registration and Continental Breakfast**
California Ballroom Registration Desk and California Ballroom

7:30 am **Speaker, Linda Garverick, PhD**
Principal, Coactive Consultants
Talk: *How Gender Differences in Leadership Style Affects the Workplace*

Introduction by Wendy Cieslak, PhD
Hertz Fellow 1983, Director; Division Leader, Materials Science and Technology, Los Alamos National Laboratory
California Ballroom

9:00 am **Speaker, Walter Scott, PhD**
Founder and CTO of DigitalGlobe
Talk: *Open Skies For All: Past, Present and Future of Commercial Remote Sensing*

Introduction by Ruth A. David, PhD
Hertz Director; President and CEO, Analytic Services, Inc.
California Ballroom

10:30 am **Panel of Hertz Fellow Thesis Prize Winners:**
Lilian Childress, PhD; Hertz Fellow 2007; Assistant Professor, Bates College
Christopher Loose, PhD; Hertz Fellow 2007; CTO, Semprus BioSciences
Youssef Marzouk, PhD; Hertz Fellow 2002; MIT Boeing Assistant Prof. of Aeronautics & Astronautics
Alexander Wissner-Gross, PhD; Hertz Fellow 2008; Co-Founder and CTO, CO2Stats

Moderator: Wendy Cieslak, PhD
Hertz Fellow 1983, Director; Division Leader, Materials Science and Technology, Los Alamos National Laboratory
California Ballroom

12:00 pm **Lunch**
California Ballroom

Saturday, March 21 (cont.)

1:00 pm Speaker, Carl Wieman, PhD

Hertz Fellow 1977; Nobel Laureate, Director of the Carl Wieman Science Initiative, University of British Columbia

Talk: *A scientific approach to science education*

Introduction by Richard B. Miles, PhD

Hertz Fellow 1972 and Director; Professor of Engineering, Princeton University
California Ballroom

3:30 pm Speaker, Xiaowei Zhuang, PhD

Howard Hughes Medical Institute Investigator; Harvard Professor of Chemistry, Chemical Biology, and Physics

Talk: *Imaging the nanoscopic world of living systems*

Introduction by Steven D. Fantone, PhD

Hertz Fellow 1978 and Director; President and CEO, Optikos Corporation
California Ballroom

4:30 pm Speaker, Thomas C. Reed

Former Secretary of the Air Force

Talk: *A political history of nuclear weapons, 1938-2008*

Introduction by Gilbert F. Decker

Hertz Director, Strategic Planning and Technology Consultant
California Ballroom

5:30 pm Poster Session, Hertz Fellows' PhD Research Discussion

6:00 pm Reception

7:00 pm Dinner

California Ballroom

8:00 pm Recognitions: Jay Davis, PhD

Hertz Director; National Security Fellow; Former Director, Defense Threat Reduction Agency; Founding Director of the Center for Accelerator Mass Spectrometry at LLNL

8:30 pm Speaker, Paul M. Horn, PhD

NYU Distinguished Scientist in Residence & IBM Senior Vice President and Director of Research (ret.)

Talk: *The Changing Nature of Innovation*

Introduction by John F. Holzrichter, PhD

Hertz Fellow 1971 and President, Fannie and John Hertz Foundation
California Ballroom

Sunday, March 22

7:30 am Continental Breakfast
California Ballroom

8:30 am Panel of Entrepreneurs:
Paul Graham; Essayist, programmer, and programming language designer
Christine Hartmann-Siantar, PhD, Global Security Communications Manager and Portfolio Manager for Laboratory Directed Research and Development (LDRD) and Strategic Mission Support (SMS)
Louis M. Lerman, PhD; Hertz Fellow 1986, Pteranodon Ventures
Walter Scott, PhD; Founder and CTO of DigitalGlobe
Steve Vassallo, Principal at Foundation Capital

Moderator: **Amir H. Nashat, PhD**
Hertz Fellow 1999, General Partner, Polaris Ventures
California Ballroom

11:00 am Speaker, **Col. Eric A. Boe**
Hertz Fellow 2002; NASA Astronaut
Pilot of the Space Shuttle Endeavor, November 14, 2008

Introduction by **Gregory H. Canavan, PhD**
Hertz Fellow 1969; Hertz Director; Senior Fellow & Scientific Advisor, LANL
California Ballroom

11:30 am Closing Remarks, **David J. Galas, PhD**
Hertz Fellow 1972 and Chairman of the Board; Professor and Senior VP, Institute for Systems Biology
California Ballroom