

HKUST Institute for Advanced Study
Request the pleasure of your company at the
Inaugural Ceremony and Symposium
MAPPING FRONTIERS OF SCIENCE

5-6 January 2009

THE PROGRAM

Monday, 5 January

- 10:30 am** **Opening Address**
Lam Woo Lecture Theater (LT-B)
- 11:30** **Inaugural Ceremony**
Institute for Advanced Study Site
- 12:45 pm** **Luncheon**
Sze-Yuen Chung Council Chamber Foyer
- 2:30** **A: New Frontiers in Science**
Lam Woo Lecture Theater (LT-B)
- 6:30** **Banquet**
*Conrad Hong Kong
Pacific Place, 88 Queensway*

Tuesday, 6 January

- 8:30 am** **B: Science of New Materials**
Lee Wing Tat Lecture Theater (LT-D)
- 10:45** **C: New Frontiers in Life Science**
Lee Wing Tat Lecture Theater (LT-D)
- 12:45 pm** **Luncheon**
Lo Ka Chung University Center
- 2:00** **D: Computation Science**
Lee Wing Tat Lecture Theater (LT-D)
- 4:00** **E: Emerging Technology for Energy**
Lee Wing Tat Lecture Theater (LT-D)
- 5:45** **Roundtable: Future Directions and Challenges**
Lee Wing Tat Lecture Theater (LT-D)
- 7:00** **Dinner**
China Garden Restaurant, HKUST

Speakers

- Paul Alivisatos
- Robert Austin
- Paul Chu
- Aaron Ciechanover
- Tord Claeson
- Marvin Cohen
- Roland Glowinski
- Peter Goddard
- Patrick Lee
- Yuan-Tseh Lee
- Fanghua Lin
- Douglas Osheroff
- George Papanicolaou
- John Pendry
- Dahe Qin
- Paul Schimmel
- Yuen-Ron Shen
- Yigong Shi
- Lap-Chee Tsui
- Henry Tye
- Yuanxi Wan
- Eli Yablonovitch
- C N Yang
- Andrew Yao

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SPEAKERS

- **Paul Alivisatos** Deputy Director, Lawrence Berkeley National Laboratory; Professor of Chemistry and Materials Science, Larry and Diane Bock Professor of Nanotechnology, University of California at Berkeley; Member, US National Academy of Sciences
- **Robert Austin** Professor of Biophysics, Princeton University; Member, US National Academy of Sciences
- **Paul Chu** President, The Hong Kong University of Science and Technology; 1988 US National Medal of Science; Member, US National Academy of Sciences
- **Aaron Ciechanover** Distinguished Research Professor, Technion – Israel Institute of Technology; Member (Foreign), US National Academy of Sciences and Institute of Medicine, Member, American Philosophical Society; 2004 Nobel Prize in Chemistry
- **Tord Claeson** Professor, Chalmers University of Technology; Former Chair, Physics Panel, Nobel Committee; Member, Royal Swedish Academy of Sciences
- **Marvin Cohen** University Professor, Department of Physics, University of California at Berkeley; 2001 US National Medal of Science; Member, US National Academy of Sciences
- **Roland Glowinski** Cullen Professor of Mathematics and Mechanical Engineering, University of Houston; Member, Academia Europaea
- **Peter Goddard** Director, Institute for Advanced Study, Princeton; 1997 Dirac Prize; Fellow, Royal Society of London
- **Patrick Lee** William & Emma Rogers Professor of Physics, Massachusetts Institute of Technology; 2005 Dirac Prize; Member, US National Academy of Sciences
- **Yuan-Tseh Lee** Distinguished Research Fellow & Former President, Academia Sinica; Member, US National Academy of Sciences; 1986 Nobel Prize in Chemistry
- **Fanghua Lin** Silver Professor, Courant Institute of Mathematical Sciences; 2004 Chern Prize; Fellow, American Academy of Arts and Sciences
- **Douglas Osheroff** J.G. Jackson and C.J. Wood Professor in Physics, Stanford University; Member, US National Academy of Sciences; 1996 Nobel Prize in Physics
- **George Papanicolaou** Robert Grimmett Professor in Mathematics, Stanford University; Member, US National Academy of Sciences
- **John Pendry** Chair Professor in Theoretical Solid State Physics, Imperial College London; 1996 Dirac Prize; Fellow, Royal Society of London
- **Dahe Qin** Director, State Key Laboratory of Cryospheric Sciences, Chinese Academy of Sciences; Former Director, China Meteorological Administration
- **Paul Schimmel** Ernest and Jean Hahn Professor of Molecular Biology and Chemistry, The Scripps Research Institute; Member, US National Academy of Sciences
- **Yuen-Ron Shen** Professor of the Graduate School, University of California at Berkeley; Member, US National Academy of Sciences
- **Yigong Shi** Director of Center for Structural Biology and Vice Dean of School of Medicine, Tsinghua University
- **Lap-Chee Tsui** Vice-Chancellor and President, The University of Hong Kong; Member (Foreign), US National Academy of Sciences; Fellow, Royal Society of London and Royal Society of Canada
- **Henry Tye** Horace White Professor of Physics, Cornell University; Fellow, American Physical Society
- **Yuanxi Wan** Head of HT-7U Superconducting Tokamak Project, Former Director, Institute of Plasma Physics, Chinese Academy of Sciences
- **Eli Yablonovitch** Professor, Department of Electrical Engineering & Computer Sciences, University of California at Berkeley; Member, US National Academy of Engineering and US National Academy of Sciences
- **C N Yang** Professor, Tsinghua University; Distinguished Professor-At-Large, The Chinese University of Hong Kong; Member, US National Academy of Sciences; 1957 Nobel Prize in Physics
- **Andrew Yao** Professor, Tsinghua University; 2000 Turing Award; Member, US National Academy of Sciences

THE PROGRAM SCHEDULE

5 January 2009 (Monday)

10:30 am

Symposium *Lam Woo Lecture Theater (LT-B)*

Opening: Mapping Frontiers of Science

C N Yang *Tsinghua University & The Chinese University of Hong Kong*

11:30 am

Inaugural Ceremony *Institute for Advanced Study Site*

12:45 pm

Luncheon *Sze-Yuen Chung Council Chamber Foyer*

2:30 pm

Symposium *LT-B*

Session A: New Frontiers in Science

Marvin Cohen *University of California at Berkeley*

Yuan Tseh Lee *Academia Sinica*

Douglas Osheroff *Stanford University*

Henry Tye *Cornell University*

6:30 pm

Banquet *Conrad Hong Kong, Pacific Place, 88 Queensway*

6 January 2009 (Tuesday)

8:30 am

Symposium *Lee Wing Tat Lecture Theater (LT-D)*

Session B: Science of New Materials

Tord Claeson *Chalmers University of Technology*

Patrick Lee *Massachusetts Institute of Technology*

John Pendry *Imperial College London*

Yuen-Ron Shen *University of California at Berkeley*

Eli Yablonovitch *University of California at Berkeley*

Session C: New Frontiers in Life Science

Robert Austin *Princeton University*

Aaron Ciechanover *Technion – Israel Institute of Technology*

Paul Schimmel *The Scripps Research Institute*

Yigong Shi *Tsinghua University*

Lap-Chee Tsui *The University of Hong Kong*

12:45 pm

Luncheon *Lo Ka Chung University Center*

2:00 pm

Symposium *LT-D*

Session D: Computation Science

Roland Glowinski *University of Houston*

Fanghua Lin *Courant Institute of Mathematical Sciences*

George Papanicolaou *Stanford University*

Andrew Yao *Tsinghua University*

Session E: Emerging Technology for Energy

Dahe Qin *Chinese Academy of Sciences & China Meteorological Administration*

Paul Alivisatos *Lawrence Berkeley National Lab & University of California at Berkeley*

Yuanxi Wan *Chinese Academy of Sciences*

Paul Chu *The Hong Kong University of Science and Technology*

Roundtable: Future Directions and Challenges

Marvin Cohen (Chair) *University of California at Berkeley*

Aaron Ciechanover *Technion – Israel Institute of Technology*

Peter Goddard *Institute for Advanced Study, Princeton*

John Pendry *Imperial College London*

Andrew Yao *Tsinghua University*

7:00 pm

Dinner *China Garden Restaurant, HKUST*

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REPLY SLIP

Please reply by fax on or before 22 December 2008 (Monday)

To: Institute for Advanced Study
The Hong Kong University of Science and Technology

Fax : 2719-6615
Enquiries : 2358-5764

I shall be pleased to attend *

I shall be unable to attend

(Please print in Block Letters)

Name: _____ Title: _____

Organization: _____ Telephone: _____

Address: _____

* Please reserve a parking space at HKUST. Car plate number is _____

I would like to join the following:

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