

COMMITTEE MEMBERS

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Prof. Teng QIU (Nano-Photonics), City University of Hong Kong and Southeast University

Prof. Xuan-Yong LIU (Nano-Biology), City University of Hong Kong and Shanghai Institute of Ceramics

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Prof. Yu-Long JIANG, City University of Hong Kong and Fudan University

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PLENARY SPEAKERS (Listed in alphabetical order)



Prof. A. Paul ALIVISATOS University of California at Berkelev and Lawrence Berkeley National Laboratory



Prof. Sir Harold KROTO Florida State University Nobel Laureate



Prof. Chun-Li BAI Institute of Chemistry Academician of Chinese Academy of Sciences



Prof. Charles M. LIEBER Harvard University

IEEE INEC 20 INVITED SPEAKERS (Listed in alphabetical order)

- Prof. Yoshio BANDO (Japan National Institute for Materials Science)
- Prof. Federico CAPASSO (Harvard University)
- Prof. Yi CUI (Stanford University)
- Prof. Li-Ming DAI (University of Dayton)
- Prof. Xiang-Feng DUAN (University of California at Los Angeles)
- Prof. Hua-Jian GAO (Brown University)
- Prof. Yu HUANG (University of California at Los Angeles)
- Prof. Song JIN (University of Wisconsin at Madison)
- Prof. Robert NEMANICH (Arizona State University)
- Prof. Carsten RONNING (University of Jena)
- Prof. Federico ROSEI (University of Quebec)
- Prof. Harry RUDA (University of Toronto)
- Prof. Lars SAMUELSON (Lund University)
- Prof. Oliver G. SCHMIDT (Dresden Institute for Integrative Nanosciences)
- Prof. Edmund G. SEEBAUER (University of Illinois at Urbana-Champaign)
- Prof. De-Li WANG (University of California at San Diego)
- Prof. Zhong-Lin WANG (Georgia Institute of Technology)
- Prof. Paul S. WEISS (The Pennsylvania State University)
- Prof. You-Nan XIA (Washington University in St. Louis)
- Prof. Cary YANG (Santa Clara University)
- Prof. Pei-Dong YANG (University of California at Berkeley)
- Prof. Edward T. YU (University of California at San Diego)

Symposium on Nanoscience and Nanotechnlogy in China

- Prof. Lih-Juann CHEN (陳力俊 院士), Academician of AS
- Prof. Jun-Hao CHU (褚君浩 院士), Academician of CAS
- Prof. Chuan-Xian DING (丁傳賢 院士), Academician of CAE
- Prof. You-Wei DU (都有為 院士), Academician of CAS
- Prof. Shou-Shan FAN (範守善院士), Academician of CAS
- Prof. Fu-Xi GAN (幹福熹 院士), Academician of CAS
- Prof. Jian-Guo HOU (侯建國 院士), Academician of CAS
- Prof. Xun HOU (侯洵 院士), Academician of CAS
- Prof. Xiao-Lin LEI (雷嘯霖 院士), Academician of CAS
- Prof. Guo-Guang MU (母國光 院士), Academician of CAS
- Prof. Guo-Gang QIN (秦國剛 院士), Academician of CAS
- Prof. David S. Y. TONG (唐叔賢 院士), Academician of CAS
- Prof. Hai-Ling TU (屠海令 院士), Academician of CAE
- Prof. King-Ning TU (杜經寧 院士), Academician of AS
- Prof. Zhan-Guo WANG (王占國 院士), Academician of CAS
- Prof. Pei-Heng WU (吳培亨 院士), Academician of CAS
- Prof. Jian-Bai XIA (夏建白 院士), Academician of CAS • Prof. Si-Shen XIE (解思深 院士), Academician of CAS
- Prof. Qi-Kun XUE (薛其坤 院士), Academician of CAS
- Prof. Xing-Dong Zhang (張興棟 院士), Academician of CAE
- Prof. Ze ZHANG (張澤 院士), Academician of CAS



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IEEE INEC 2010

IEEE International NanoElectronics Conference



IEEE International NanoElectronics Conference (www.cityu.edu.hk/ieeeinec) January 3-8, 2010 City University of Hong Kong





In Association with





ABOUT THE CONFERENCE

Encouraged by the success of the 1st and 2nd IEEE International NanoElectronics Conference (INEC) held in Singapore in 2006 and Shanghai in 2008, the 3rd INEC will be held in City University of Hong Kong from January 3 to 8, 2010. Extensive research on nanomaterials has unveiled many interesting and promising material properties for novel applications in electronics, photonics, and biology. In order to benefit mankind for such discoveries, it is necessary to cross the chasm between nanomaterials and nanodevices and their applications. This effort will require a multi-disciplinary approach combining research in materials design, processing, modeling, characterization, and metrology. Commercialization of nanotechnology is also important to fuel future research. The aim of this conference is to identify the paths between fundamental research and potential electronic, photonic, and biological applications. INEC2010 will provide a forum for international academics, researchers, practitioners and students working in the areas of nanofabrication, nanoelectronics, nanophotonics, and nanobiology to discuss new developments, concepts and practices, and to identify future research needs so that nano-research can be brought closer to its immense potential.

INEC2010 will feature plenary and invited talks by famous scientists in nanofabrication, nanoelectronics, nanophotonics, and nanobiology. A special symposium on nanoscience and nanotechnology in China featuring all invited talks by academicians of the Chinese Academy of Sciences, Chinese Academy of Engineering, and Academia Sinica will be held during the conference. The extended abstracts of all paid/registered papers will be included in the IEEE Xplore database and Engineering Index (EI). Full contributed papers will be peer reviewed and published in a special issue of Journal of Nanoscience and Nanotechnology (2007 impact factor: 1.987). A special issue consisting of comprehensive reviews written by plenary/invited speakers will be published in Materials Science and Engineering Reports (2007 impact factor: 14.40).

Hong Kong is a vibrant and modern city where east and west meet. The city offers superb dining and attractions and boasts one of the most impressive skylines in the world. For updated information, please browse the official website of the Hong Kong Tourism Board: http://www.discoverhongkong.com/eng/index.jsp.

Prof. Paul K Chu, City University of Hong Kong (General Chair)

IEEE INEC 2010

CALL FOR ABSTRACTS

Authors are invited to submit their abstract(s) electronically via the conference website at: www.cityu.edu.hk/ieeeinec by **July 15, 2009**. All abstracts and manuscripts must be submitted in English which is the official language of the conference.

SCHEDULE AND DEADLINES

Abstract Submission Deadline Aug 15, 2009
Notification of Abstract Acceptance Aug 31 2009
Early Registration Deadline Sep 30, 2009
Full Paper Submission Deadline Dec 31, 2009

CONFERENCE THEMES

Topics include, but not limited to:

1. Nano-Fabrication

- 1.1 Nanofabrication Technologies
- 1.2 Nanoscale Modeling and Simulation
- 1.3 Nanometrology and Nanomanipulation
- 1.4 Characterization Techniques
- 1.5 Nanotechnology Ventures

2. Nano-Electronics

- 2.1 Nanoelectronic Materials and Structures
- 2.2 Nanomagnetics and Spintronics
- 2.3 Nanoelectronic Devices / Systems and Reliability
- 2.4 Nanomolecular Electronics
- 2.5 Modeling and Simulation
- 2.6 Nanoelectronics Ventures

3. Nano-Photonics

- 3.1 Nanophotonic Materials and Structures
- 3.2 Nanophotonic Phenomena
- 3.3 Nanophotonic Devices / Systems and Reliability
- 3.4 Nanomolecular Photonics
- 3.5 Modeling and Simulation
- 3.6 Nanophotonics Ventures

CONFERENCE THEMES (continued)

4. Nano-Biology

- 4.1 Nanobiological Materials and Structures
- 4.2 Nanomolecular Devices / Systems and Reliability

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- 4.3 Biocompatibility and Bioactivity
- 4.4 Biological Labeling and Drug Delivery
- 4.5 Modeling and Simulation
- 4.6 Nanobiology Ventures

CONFERENCE VENUE



The 3rd IEEE International NanoElectronics Conference (INEC) will be held in City University of Hong Kong from January 3 to 8, 2010. The university has achieved phenomenal growth since its establishment in 1984. Currently, it has a student population of over 26,000 enrolled in more than 145 programs at the associate degree, undergraduate, and graduate levels.



The campus is easily accessible by both public and private transportation. CityU is located in Kowloon Tong on the Kowloon peninsula. The university is adjacent to the Kowloon Tong Station accessible by both the Kwun Tong Line (Green Line) and East Rail Line (Light Blue Line) of the Mass Transit Railway (MTR).

Welcome to City University of Hong Kong