Preliminary Announcement

2019 Annual Meeting of the Physical Society of Taiwan

Dear colleagues,

2019 Annual Meeting of the Physical Society of Taiwan at National Chiao Tung University, Hsinchu, Taiwan is now open for registration and calling for abstract submissions.


We look forward to your visit and your enthusiastic participation.

Best regards,

The Physical Society of Taiwan

President

Chih-Ta Chia

Vice President

Meng-Fan Luo

Chair of International Affair Committee

Feng-Chuan Chuang

The annual meeting of the Physical Society of Taiwan (TPS) is the grandest annual event of the physics community in Taiwan. The 2019 annual meeting is co-hosted by National Chiao Tung University (NCTU) and will be held on January 23-25, 2019 in Hsinchu. There will be plenary talks of distinguished speakers on the exciting new discoveries, and parallel section talks on the latest developments over a broad spectrum of research field -- pure and applied physics included as well as physics education.

**Oral talks, including Invited and Contributed talks, must be presented in English, except for the talks for Physics Education.**
Important Dates:
Deadline for abstract submission: 24:00, November 10, 2018
Deadline for early bird discount registration: 24:00, November 30, 2018
Deadline for online registration: 24:00, January 2, 2019
Registration cancellation and refund deadline: 24:00, January 2, 2019

Meeting dates: January 23 to 25, 2019

Organizers:
The Physical Society of Taiwan (TPS)
Department of Electrophysics, National Chiao Tung University (NCTU)
The Physics Research Promotion Center (PRPC) of the Ministry of Science and Technology (MOST)

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<table>
<thead>
<tr>
<th>名稱 Name</th>
<th>時間 Time</th>
<th>地點 Location</th>
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<tbody>
<tr>
<td>台灣物理學會-韓國物理學會 新穎半導體物理雙邊研討會 TPS-KPS Joint Workshop on Emergent Semiconductor Physics</td>
<td>24/January</td>
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<td>AVS Taiwan Chapter: 凡德瓦異質結構之新穎現象與相關物理 Emergent phenomena and related physics in novel van der Waals heterostructures</td>
<td>24/January 12:00~18:00</td>
<td>EO103</td>
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<td>公共論壇:物理人的產業鏈結</td>
<td>24/January 13:00-15:00</td>
<td>SC001</td>
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<td>台灣高能實驗物理的現狀與未來展望: The current status and future prospect of high energy experimental physics in Taiwan</td>
<td>25/January 12:30-15:30</td>
<td>SC105</td>
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<tr>
<td>動手做物理教學研討會 Conference on Hands-on Physics Education</td>
<td>25/January 09:00-17:40</td>
<td>☆9:00<del>12:00 SA213, SA214, SA215 SC204, SC206, SC207 ☆13:10</del>15:30 SC001 ☆15:30~17:40 SC1F</td>
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It will be announced on-site and posted on the News of the web-site, if the date or location of the activity is changed.

SA: Science building I (科學一館)
SC: Science building III (基礎科學教學研究大樓)
EO: TKP photonic building (田家炳光電大樓)
Official Website：http://tps2019.conf.tw/
Plenary Talks

Prof. David Goldhaber-Gordon
Professor of Physics, Stanford University

**Time**: 2019/01/23 14:10~15:00  
**Title**: Chiral 1D transport in magnetic topological insulators: precise quantization and manipulation

**Honors/Awards**

- Selected as one of 30 Outstanding Alumni in STEM and Business over 30 years, Center for Excellence in Education/Research Science Institute, 2013.
- Weston Visiting Professorship, Weizmann Institute, 2010-2011.
- Inaugural speaker for AFOSR/ONR young investigator seminar, Audience included chief scientist of Air Force and head of Air Force Office of Scientific Research.
- National Academy of Sciences Award for Initiatives in Research, 2006. One given per year – field rotates.
- David and Lucille Packard Fellow, 2004-2009.16 early-career faculty selected per year across all fields of science.
- Research Corporation Research Innovation Award 2004-2006.
• George E. Valley Prize of the American Physical Society, 2002. Awarded every two years to an early-career individual (then under the age of thirty, now within five years of Ph.D.) “To recognize his or her outstanding scientific contribution to the knowledge of physics”.
• William McMillan Award, highest accolade for an early-career condensed matter physics experimentalist or theorist, 2002.
• Review of nanoelectronic computing chosen as MITRE Corp. best paper of 1997.
• Martin Deutsch Award for the most promising experimental physics graduate work at MIT for 1997.
• Hertz Foundation PhD Fellow 1994–1999.
• MIT Karl Taylor Compton PhD Fellow 1994–1999 Two fellowships awarded to prospective graduate students in physics from over 400 applicants.
Plenary Talks

Prof. You-Hua Chu
Director, Institute of Astronomy and Astrophysics, Academia Sinica (ASIAA)
President, Astronomical Society of Republic of China (ASROC)
Professor Emerita, University of Illinois

Time: 2019/01/23 15:10-16:00
Title: Multi-wavelength Views of Stellar Energy Feedback

Honors/Awards
Prof. Chu is a member of the Astronomical Society of Republic of China (ASROC), American Astronomical Society (AAS), and International Astronomical Union (IAU). She is the president of the ASROC (2014-2020). She served the AAS Warner/Pierce Award Committee (1997-1999) and Tinsley Award Committee (2003-2005, chair in 2005). She served as a member of the Organizing Committee (2003-2009), Vice President (2006-2009) and President (2009-2012) of IAU Division VI, Diffuse Matter. She organized IAU Symposium No. 190 in 1998, and served on the SOC for several other IAU Symposia on Planetary Nebulae. She has been awarded telescope times and reviewed proposals for the Hubble Space Telescope, Chandra X-ray Observatory, XMM-Newton X-ray Observatory, Spitzer Space Observatory, Far UV Spectroscopic
Explorer, ROSAT, IUE, etc. She served the Committee of Visitors for the National Science Foundation (2002) and Visiting Committee for the Smithsonian Astrophysical Observatory (2017). She has been a Board Member of the Gemini International Observatory (2010-2012), East Asian Observatory (2014-pres), and Atacama Large Millimeter/Submillimeter Array (2017-2020). She has published 230 refereed journal papers and over 100 meeting proceeding papers, and edited the proceedings IAU Symposium No. 190. She received NTU Physics 傑出系友獎 in 2016.
Plenary Talks

Prof. William D. Phillips
Distinguished University Professor, University of Maryland
Fellow of National Institute for Standards and Technology and the Joint Quantum Institute

Time：2019/01/24 11:00-12:00
Title：

Honors/Awards
Pennsylvania State Scholarship 1966-1970
C. Ellis Memorial Scholarship 1969-1970
Election to Juniata College Honor Society 1969.
Woodrow Wilson Fellow 1970
National Science Foundation Fellow 1970-1973
Chaim Weizmann Postdoctoral Fellow 1976-1978
Outstanding Young Scientist Award of the Maryland Academy of Sciences, 1982.
Scientific Achievement Award of the Washington Academy of Sciences, 1982
Silver Medal of the Department of Commerce, 1983
Samuel Wesley Stratton Award of the National Bureau of Standards, 1987
Arthur S. Flemming Award of the Washington Downtown Jaycees, 1988
Election to American Academy of Arts and Sciences 1995
Election as a NIST Fellow, 1995
Michelson Medal of the Franklin Institute 1996
Distinguished Traveling Lecturer (APS-DLS) 1996-98
Election to the National Academy of Sciences 1997
Nobel Prize in Physics 1997
Nobel Prize Citation: “for development of methods to cool and trap atoms with laser light”
The prize was shared with Steven Chu and Claude Cohen-Tannoudji.
Honorary Doctor of Science, Williams College 1998
Doctorado Honoris Causa de la Universidad de Buenos Aires 1998
Honorary Doctor of Science, Juniata College 1999
American Academy of Achievement Award 1999
Gold Medal of the Pennsylvania Society 1999
Richtmeyer Award of the Am. Assoc. of Physics Teachers 2000
Election to the European Academy of Arts, Sciences and Humanities (titular member), 2000
Condon Award of NIST 2002
Archie Mahan Prize of the OSA 2002
Election as an alumni member of Juniata College's chapter of Omicron Delta Kappa, the
National Leadership Honor Society 2004
Election as an Honorary Member of the Optical Society of America
Appointed an Academician of the Pontifical Academy of Sciences 2004
Meritorious Senior Professional Award (Presidential Rank) 2005
Trotter Prize 2006
Service to America Medal, Career Achievement Award 2006
Election as Honorary Member of the Institute of Physics of the University of Sao Paulo in Sao Carlos, Brazil, 2009
Janus Award of the Institute of Physics at the University of Sao Paulo in San Carlos, Brazil, 2009
Doctorado Honoris Causa, Universidad Autónoma de San Luis Potosí, San Luis Potosí, Mexico, 2009
Appointment to Lifetime Membership in Sigma Xi 2009
Moyal Medal, Faculty of Science, Macquarie University, Sydney, 2010
Doctorat Honoris Causa, École Normale Supérieure, Paris 2010
Doctor of Science, Honoris Causa, University of Strathclyde, Glasgow, 2011
NIST Equal Opportunity/Diversity Award 2011
Inaugural recipient of the "Wall of Honor" award of the Camp Hill (Pennsylvania) School District, 26 January 2013
Pioneer in Photonics Award, Fitzpatrick Institute of Photonics, Duke University, 11 March 2013
Galileo Ferraris Prize, INRiM, Torino Italy, 06 December 2014
Appointment as a Corresponding Member of the Mexican Academy of Sciences (Academia Mexicana de Ciencias) December 2016.
Plenary Talks

Prof. William E. Moerner
William Esco (W. E.) Moerner Harry S. Mosher Professor and Professor, by courtesy, of Applied Physics

Time：2019/01/25 11:00-12:00
Title：The Story of Photonics and Single Molecules, from Early FM Spectroscopy in Solids, to Super-Resolution Nanoscopy in Cells and Beyond

Honors/Awards
Nobel Prize in Chemistry, 2014
John Gamble Kirkwood Medal for Outstanding Achievement in Science, from Yale University and the New Haven Section of the American Chemical Society, 2013
Peter Debye Award in Physical Chemistry, 2013
Pittsburgh Spectroscopy Award, 2012
Irving Langmuir Prize in Chemical Physics, 2009
Wolf Prize in Chemistry, 2008
Member, National Academy of Sciences, 2007
Fellow, American Association for the Advancement of Science, 2004
Geoffrey Frew Fellow, Australian Academy of Sciences, 2003
Harry Stone Mosher Professor of Chemistry, Stanford University, 2002
Fellow, American Academy of Arts and Sciences, 2001
Earle K. Plyler Prize for Molecular Spectroscopy, American Physical Society, 2001
IBM Outstanding Technical Achievement Award for Single-Molecule Detection and Spectroscopy, 1992
Fellow, American Physical Society, 1992
Fellow, Optical Society of America, 1992
IBM Outstanding Technical Achievement Award (with R. M. Macfarlane and R. M. Shelby) for Photon-Gated Spectral Hole-Burning, 1988