FIAP sponsors many sessions during the APS March Meeting. This is a listing of those sessions and activities that focus on industrial physics. Industry Day is Wednesday, March 15 with satellite sessions on Tuesday and Thursday.

More information: go.aps.org/mm17-industry-day
### TUESDAY, MARCH 14, 2017

<table>
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<th>TIME</th>
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| 11:15 a.m. - 2:30 p.m. | T29: Industrial Physics Forum, “Physics in the Industrial World” Chair: Steven Lambert, APS  
Sensing Challenges for Fully Autonomous Vehicles Jim McBride, Ford  
Quantum Computing Matthias Steffen, IBM  
Virtual Reality Clark Dever, Heads Up Display, Inc.  
High Power Electronics Sameer Pendharkar, Texas Instruments  |
| 12:00 - 2:00 p.m. | Graduate Student Lunch with the Experts  
Sign-up near APS Registration Desk (first-come, first-served)  |
| 2:15 p.m. - 5:30 p.m. | R29: Role of Measurements and Instrumentation in Advancing Industry & Applied Physics  
FIIAP Co-Chair: Dave Seiler, NIST  
With Great Measurements Comes Great Results Kent Rochford, NIST  
New Measurement Technologies Enable the Revolution in Life Sciences James N. Kolenko, Agilent Technologies  
Enabling Automotive Innovation: Tales from a Physicist in Industry Fred E. Pinkerton, General Motors  
Semiconductor Characterization: From Growth to Manufacturing Luigi Colombo, Texas Instruments  
Look But Don’t Touch: Spectroscopic Ellipsometry Advances Materials Research and Process Monitoring Thomas Toole, J. A. Woollam  |

### WEDNESDAY, MARCH 15, 2017

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<th>TIME</th>
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| 10:00 - 11:00 a.m. | K29: Physics Leading the Frontier of Genomics & Applications  
FIIAP Chair: Cha-Mei Tang, Creative Microtech  
Quantum Sequencing Opportunities and Challenges Massimiliano Di Ventra, University of California, San Diego  
Nanopore Kinetic Proof Reading of DNA Sequence Sean Long, Brown University  
Iso-Flow Tension Propagation Theory and Its Application to Driven Polymer Translocation Tapio Ala-Nissila, Aalto University  
Precision Genome Editing for Treating Single-gene Disorders Gang Bao, Rice University  
Influence of Pore Charge, Pressure, and Electric Field on Protein Transport through Nanopores Meni Wannmu, Northeastern University  |
| 11:15 a.m. - 2:15 p.m. | L29: Physics That Changed the World  
Chair: Eli Yablonovitch, University of California, Berkeley  
Energy Efficient GaN Lighting Steven Denbaars, University of California, Santa Barbara  
LASER Refractive Surgery Jim Wyman, IBM  
Magnetic Resonance Medical Imaging (MRI) from the Inside Paul Butenissel, Johns Hopkins  
Batteries that Changed the World Peter Littlewood, Argonne National Lab  
GPS and Precision Time-Keeping Steven Chu, Stanford University  
Lab to Product, the Marketplace  
Chair: Joe Mantese, UTC  
Funding Innovation from an Industry Perspective John Murphy, UTC  
From Physics to Big Data John Rumble, R&R Data Services  
Physicists, Materials, Devices and Chips—A Lab to Product Quest Carlos Araujo, University of Colorado/Symetrix  
The Oxide-Confinced Vertical-Cavity Surface-Emitting Laser: From Dust to Light John Dallasaussae, University of Illinois  
Materials to Products John Tolle, ASM  |
| 2:30 - 4:30 p.m. | FIAP Business Meeting  
Recognition of new APS Fellows and prize winners:  
• Prize for Industrial Applications of Physics Ashad Khan, Kent Displays  
• George E. Pake Prize Tze-Chiang Chen  
• Prize for Industrial Applications Ashad Khan  
• Distinguished Lectureship Award Rudolf M. Tromp  |

### THURSDAY, MARCH 16, 2017

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<th>TIME</th>
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| 8:00 - 11:00 a.m. | R29: Industrial Advances in Computation  
FIIAP Chair: Larry Nagahara, Johns Hopkins  
Modeling for Integrated Oxide Electronics and Photonics Alexander Dembov, University of Texas, Austin  
High-throughput Materials Discovery and Development: Breakthroughs and Challenges in the Mapping of the Materials Genome Marco Buongiorno Nardelli, University of North Texas  
Ab initio Guided Design of Structural Materials with Superior Mechanical Properties Jorg Neugebauer, Max-Planck-Institut für Eisenforschung  
Novel Heterostructure Devices for Ultra-Scaled Logic Patrick Tey, University of Notre Dame  
Electronic Structure Calculations for Industrial Technology Development Justin Wehr, Intel  |
| 11:15 a.m. - 2:15 p.m. | S29: Entrepreneurs: Building the Company  
Chair: Ichiro Takesuchi, University of Maryland  
Different Roads to Academic Entrepreneurship T. Venky Venkatesan, National University of Singapore  
From Theoretical Physics to Cancer Diagnostics Cha-Mei Tang, Creative Microtech  
Starting Up a Company in a Mature Market: Wise or Foolish? Maximilian Ribeiger, SDcmaterial  
Keys to Taking Your Nanotech Inventions to the Market Scott Rickert, PEN inc  
Applying Scientific Skills to the Business World Stefan Murr, Applied Optoelectronics  |
| 2:30 - 5:30 p.m. | V29: Entrepreneurial Panel Discussion and Prize Session  
Chair: Matt Kim, QuantuTera  
Entrepreneurial Panel Part 1 Panelists from entrepreneurial session  
Entrepreneurial Panel Part 2 Panelists from entrepreneurial session  
George E. Pake Prize Tze-Chiang Chen  
Prize for Industrial Applications Ashad Khan  
Distinguished Lectureship Award Rudolf M. Tromp  |
| 5:30 - 7:30 p.m. | FIAP-FECS Closing Reception 3rd floor atrium outside room 383  |