

# 華美化學與化工學會

## Chinese-American Chemical Society (CACCS)

### 2017 Spring Meeting and Banquet

At the ACS Spring National Meeting  
April 3, 2017, San Francisco, CA, USA

Registration Fee: \$37/person. On-site registration available



#### Monday, April 3, 2017

6:30 pm -- 7:00 pm	Registration and Social Hour
7:00 pm -- 7:15 pm	Welcome and Introductory Remarks <b>Dr. Lin LI, CACS Board Chair</b>
7:15 pm -- 7:30 pm	Introduction of Special Guests, Keynote Speaker, Sponsors, and other guests <b>Dr. Marinda Li WU, CACS Board, ACS Past President</b>
7:30 pm -- 8:30 pm	Dinner Banquet
8:30 pm -- 9:30 pm	Keynote Address: <b>Semiconductor Nanowires</b> <b>Professor Peidong YANG, UC Berkeley, USA</b>
9:30 pm -- 9:35 pm	Introduction of Job Openings at WuXi AppTec
9:35 pm -- 9:40 pm	Concluding Remarks <b>Dr. Marinda Li WU</b>
9:40 pm	Meeting Adjourn



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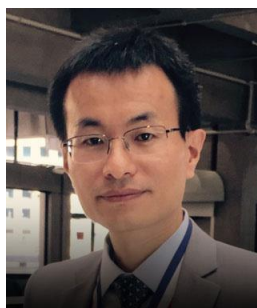
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Keynote Address:

### Semiconductor Nanowires

Professor Peidong YANG

S.K. and Angela Chan Distinguished Professor of Energy, Departments of Chemistry and Materials Science & Engineering, University of California, Berkeley, USA



#### Abstract

Semiconductor nanowires, by definition, typically have cross-sectional dimensions that can be tuned from 2–200 nm, with lengths spanning from hundreds of nanometers to millimeters. After more than two decades of research, nanowires can now be synthesized and assembled with specific compositions, heterojunctions and architectures. This has led to a host of nanowire photonic and electronic devices. Because of their unique structural, chemical and physical properties, these nanoscopic one-dimensional nanostructures can also play a significant role in terawatt-scale energy conversion and storage. Currently the amount of energy required worldwide is on the scale of terawatts, and the percentage of renewable energy in the current energy portfolio is quite limited. Developing of cost-



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effective clean energy technology becomes imperative. I will discuss two examples from my group, approaching this problem in two different directions. The first relates to saving energy, by developing nanostructured silicon thermoelectrics to do waste heat recovery; and the second is to develop nanostructures for solar energy conversion, especially converting CO<sub>2</sub> to liquid fuels through artificial photosynthesis. In addition, I will also use some time to discuss some of my recent initiatives in Berkeley and Shanghai.

## Biography

Peidong YANG is a Chemistry professor, S. K. and Angela Chan Distinguished Chair Professor in Energy at the University of California, Berkeley. He is a senior faculty scientist at Materials and Chemical Sciences Division, Lawrence Berkeley National Laboratory. He is a member of both the National Academy of Sciences and the American Academy of Arts and Sciences. He is known particularly for his work on semiconductor nanowires and their photonic and energy applications including artificial photosynthesis. He is the director for California Research Alliance by BASF and one of the co-directors for the Kavli Energy Nanoscience Institute at Berkeley. He is the founding dean for School of Physical Science and Technology, ShanghaiTech University. He cofounded three companies: Nanosys Inc, Alphabet Energy Inc; Infinity Innovation Inc.

Dr. YANG received his B.A. in Chemistry from the University of Science and Technology in China in 1993. He then received his Ph.D. in Chemistry from Harvard University in 1997, and did his postdoctoral fellowship at the University of California, Santa Barbara. Soon after, he joined the faculty at the University of California, Berkeley. He is the recipient of MacArthur Fellowship, E. O. Lawrence Award, ACS Nanoscience Award, MRS Medal, Baekeland Medal, Alfred P. Sloan research fellowship, the Arnold and Mabel Beckman Young Investigator Award, National Science Foundation Young Investigator Award, MRS Young Investigator Award, Julius Springer Prize for Applied Physics, ACS Pure Chemistry Award, and Alan T. Waterman Award. He is the 2014 Thomas Reuters Citation Laureate for Physics.



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