



College of Science and Technology



Formed in 1998, the College of Science and Technology brings together more than 240 faculty members and 4,000 undergraduate and graduate students in six departments: Biology, Chemistry, Computer & Information Sciences, Earth & Environmental Science, Mathematics and Physics. The college's Science Education and Research Center (SERC) is dramatically expanding interdisciplinary research and bolstering technology transfer, where scientists turn discoveries in the lab into patentable products. SERC houses many of the college's 11 research centers, which are at the frontiers of biophysics, data mining, energy, genetics, medicine and advanced materials research.

More information at cst.temple.edu

COLLEGE OF SCIENCE AND TECHNOLOGY

CENTER FOR
COMPUTATIONAL
DESIGN OF
FUNCTIONAL
LAYERED
MATERIALS

ANNUAL MEETING

May 4-5, 2015
Science Education and
Research Center



College of Science and Technology

The new **Center for Computational Design of Functional Layered Materials (CCDM)** aims to design, synthesize and characterize new or defect-engineered layered materials with desired functionalities for applications in clean-energy production and storage such as solar cells, catalysts to split water for hydrogen fuel, or batteries.

CCDM is one of 10 new Energy Frontier Research Centers funded by the U.S. Department of Energy through a four-year award beginning in August 2014. CCDM is led by Temple University's John Perdew, Laura H. Carnell Professor of Physics and Chemistry, and includes 18 senior investigators from Drexel University, Duke University, North Carolina State University, Northeastern University, University of Pennsylvania, Princeton University, Rice University and BNL. In addition, the J. Nehru Center for Advanced Scientific Research in Bangalore, India is a collaborator. The annual meeting offers opportunities for all CCDM members to discuss their research and foster new ideas and synergy across the center.

The meeting is supported by CCDM, an Energy Frontier Research Center funded by the U.S. Department of Energy, Office of Science. More information available at <http://efrc.cst.temple.edu/>

MAY 4

- 8:30AM *What do we need to accomplish?*
John Perdew, Temple University
- 8:45AM *Theory*
John Perdew
- 9:20AM *Microscopic Computation & Modeling*
Arun Bansil, Northeastern University
- 9:55AM *Multiscale Computation & Modeling*
David Srolovitz, University of Pennsylvania
- 10:30AM Break
- 10:50AM *Growth & Characterization*
Xiaoxing Xi, Temple University
- 11:25AM *Catalysis & Water Splitting*
Daniel Strongin, Temple University
- Noon Lunch
- 1:00PM Breakout sessions by thrust area
- 2:20PM Break
- 2:40PM Roundtable discussion
- 4:00PM Poster session
- 5:00PM Reception
- 6:00PM Dinner
- 6:00PM Advisory Board and Executive Committee meeting

MAY 5

- 9:00AM Executive Committee meeting
- 9:00AM Senior investigator presentations
- 10:00AM Junior investigator presentations
- Noon *Closing remarks*
John Perdew