Welcome to Temple University
Michael L. Klein FRS
Dean Science & Technology

© Kaia Nao
Honorary Degree to CNR Rao (Bangalore, India)
DEAN’S MESSAGE

At the College of Science and Technology, our progress—in advanced research, exceptional teaching and programs that bring science to local communities—is remarkable.

Over the past eight years, the college has hired 78 new tenure-track faculty members, including many world-class researchers and three members of the National Academy of Sciences. In addition, external research funding at the college (page 11) has increased by 35 percent over the past three years. New CST hires and their innovative research have helped propel Temple University to a worldwide ranking of 18th in total Google Scholar research citations and an R1/highest research activity designation by the Carnegie Classification of Institutions of Higher Education.

Much of the college’s advanced research springs from our centers and institutes. By bringing together multidisciplinary investigators, they are making real and measurable advances in energy, new materials, cancer care, drug delivery and environmental conservation (page 17).

The college is committed to providing our students with an outstanding educational experience. We now enroll more than 4,100 undergraduates and 400 graduate students, making CST the third largest school or college at Temple. We have introduced new Professional Science Master’s degree programs as well as a Pre-Health Post-Baccalaureate program (page 5).

The number of CST undergraduates engaged in advanced research, through initiatives such as our Undergraduate Research Program, has increased by tenfold since 2008. So that students gain the tangible skills for successful careers, the college has enhanced mentoring and professional development initiatives (page 13).

In the community, CST continues to expand its STEM education outreach through summer science camps (page 32), after-school programs, efforts to increase minority participation in research and T-Ureach, our successful teacher training collaboration with Temple’s College of Education.

Our research, teaching and engagement efforts are supported by a growing roster of alumni, friends, faculty/staff, and corporate and foundation donors (page 25). I thank them deeply for their support. Their investments in the college enable us to foster scientific inquiry of the highest caliber and to inspire future generations of students and scientists to push the boundaries of discovery even further.
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NOTABLE

Google Scholar Citations

CST has some of the most Highly Cited Researchers @ Temple University

Masatoshi Nei, John P Perdew, Sudhir Kumar, Michael L Klein, Bernd Surrow, Yugang Sun
**Masatoshi Nei**
Laura Carnell Professor of Biology, Temple University
Verified email at temple.edu
Cited by 283268
Evolution  Evolutionary biology  Molecular evolution  Population genetics  Phylogenetics

**John P. Perdew**
Professor of Physics, Temple University
Verified email at temple.edu
Cited by 186324
density functional theory  materials theory  condensed matter theory  quantum chemistry

**Sudhir Kumar**
Director, iGEM@Temple, Institute for Genomics and Evolutionary Medicine; Carnell …
Verified email at temple.edu
Cited by 127698
Molecular Evolution  Phylogenetics  Bioinformatics  Genomics  Medicine

**Michael L Klein**
Temple University
Verified email at temple.edu
Cited by 70952
chemical physics  physical chemistry  physics  biophysics  room temperature ionic liquids

**Bernd Surrow**
Professor of Physics, Temple University, Department of Physics
Verified email at temple.edu
Cited by 40145
High-Energy Collider QCD physics / Micro- …

**Yugang Sun**
Temple University
Verified email at temple.edu
Cited by 39310
nanoscience and nanotechnology  in-situ synchrotron x-ray science  plasmonics  photocatalysis  energy storage and conversion

6 of top 10 from CST
#16: Generalized gradient approximation made simple
#20: The neighbor-joining method: A new method for reconstructing phylogenetic trees
#45: MEGA4: Molecular Evolutionary Genetics Analysis (MEGA)
#79: Comparison of simple potential functions for simulating liquid water
#93: Accurate and simple analytic representation of the electron-gas correlation-energy

Web of Science: Temple College of Science & Technology has 5 of top 100 science publications !!
College of Science & Technology CST = 19 years old

CST = intellectual core for science & technology endeavors @ Temple with special role in research & innovation, graduate & undergraduate education, & community engagement via K-12 and TUteach

HL Dai started as Dean with 110 TT faculty and hired 42 TT (2007 – 2012). He set a goal of 135 TT faculty for CST.

Current Dean MLK hired 42 TT faculty (2012-2017). New 250,00 sf Building ⇔ SERC opened October 2014

Need New Building(s) to complete the rebirth of CST

CST TT Faculty = 135; New Faculty 78 ⇔ NEW TEMPLE
Temple University  
College of Science & Technology, SERC Building  
https://www.youtube.com/watch?v=d_I6dUk8fBU  

Center for Biophysics (Ron Levy)  
Center for Materials Theory (John Perdew)  
Center for Biodiversity (Blair Hedges)  
Center Data Analytics (Zoran Obradovic)  
Center for Genetics & Genomics (Jody Hey)  
Center for Networking (Jie Wu)  
Institute for Genomics & Evolutionary Medicine (Sudhir Kumar)  
Institute for Computational Molecular Science ICMS-HPC (MLK)  
Also, Temple Materials Institute (MLK); CAPR (Levis); Biotechnology (Giordano)  
$$$ DOE EFRC $$$ (John Perdew) ($12 Million / 4 years)  

Center for the Computational Design of Functional Layered Materials
WELCOME TO CST