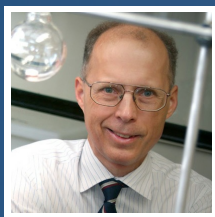


Fundamental Chemistry Fuels Innovation



John Gladysz

Distinguished Professor and Dow Chair in Chemical Invention, Chemistry

CURRENT RESEARCH

Collaborative research reaches all areas of translational chemistry

Chemical invention has fueled innovation for centuries; it is responsible for developments in medicine, agricultural practices, household materials, and civil defense strategies. Dr. John Gladysz, Distinguished Professor and Dow Chair of Chemical Invention at Texas A&M University, studies organometallic chemistry as a tool for developing a broad range of applications that can impact society, from the individual to industrial levels. His expertise branches into catalysis, organic synthesis, enantioselective reactions, stereochemistry, mechanism, and materials chemistry. Thus, the impact of his research spans the fields of medicine, specifically drug synthesis, energy, including fuels and catalysis, nanotechnology, where he crafts molecular level devices into machines and circuits, and green or environmentally friendly processes.

Dr. Gladysz is a team oriented scientist, as evidenced by the 15% of his approximately 400 publications that represent collaborative projects. Collaborations facilitate broad research agendas that maintain academic rigor and maximize the chances of impressive translational work. Typically, Dr. Gladysz works with 16 postdoctorals and graduate students throughout the year; this large group of aspiring academics is characterized by great diversity, typically a 50:50 mix of North American and other nationalities. In fact, many of his coworkers have returned to their homes abroad and initiated successful careers in countries in need of well-trained scientists. Whether working with students, collaborators, or on his own, Dr. Gladysz is known for his attention to detail and rigor. Through the combination of insights from the parent disciplines of organometallic chemistry (organic and...

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AFFILIATION



Texas A&M University

EDUCATION

- B.S. in Chemistry, 1971, University of Michigan
- Ph.D., in Organic Chemistry, 1974, Stanford University

AWARDS

- Camille and Henry Dreyfus Teacher-Scholar Grant, 1980-1985
- Arthur C. Cope Scholar Award of the American Chemical Society, 1988
- American Chemical Society Award in Organometallic Chemistry, 1994
- Texas A&M Distinguished Achievement Award in Research, 2013
- Royal Society of Chemistry Award in Organometallic Chemistry, 2013

RESEARCH AREAS

Technology, Chemistry, Materials Science / Physics, Nanotechnology

FUNDING REQUEST

Your contributions will support the continued research of Dr. John Gladysz, of Texas A&M University, and his use of organometallic chemistry to design novel technologies and building blocks. Donations will fund the necessary \$750K/year required for his annual budget. Specifically, \$65K would support a postdoctoral student while \$48K would support a graduate student. Even \$2000 would allow a student to attend a meeting to present their work and disseminate recent developments. Support this unique research program that spans the fields of medicine, energy, nanotechnology, and environmentally sustainable processes.