

Ares J. Rosakis

Ph.D., NAS, NAE, Am. Acad. Arts & Sci.

Theodore von Kármán Professor of Aeronautics and Professor of Mechanical Engineering
Graduate Aerospace Laboratories (GALCIT), California Institute of Technology

Educational Data

High School Diploma	Athens College	1975
B.A. (Hon), M.A., Engineering Science	Oxford University	1978, 1986
Sc.M. Solid Mechanics and Structures	Brown University	1980
Ph.D <i>Major Field</i> : Solid Mechanics		1982
<i>Minor Fields</i> : Material Science and Applied Mathematics Brown University		

Experience beginning with the most recent

- Otis Booth Leadership Chair, Division of Engineering and Applied Science, Theodore von Kármán Professor of Aeronautics and Mechanical Engineering, California Institute of Technology, Spring 2013-2015
- Chair, (*Dean*) Division of Engineering and Applied Science, California Institute of Technology, Spring 2009-2015
- Theodore von Kármán Professor of Aeronautics & Mechanical Engineering, California Institute of Technology, 2004-Present
- Director of the Graduate Aeronautical Laboratories (GALCIT), California Institute of Technology, 2004 - 2009

Patents Held

Holds 13 U.S. Patents

Visiting Faculty or Scholar Positions

- Visiting Professor, Columbia University, Summer 2008
- Astor Visiting Professor Oxford University, Spring 2008
- Visiting Professor, Department of Terre-Atmosphère-Océan, École Normale Supérieure, Paris, Summer 2005

Memberships in Professional Organizations

National Academy of Sciences (*NAS*) Member 2016, National Academy of Engineering (*NAE*) Member 2011, American Academy of Arts and Sciences (*Am. Acad. Arts Sci.*), Fellow 2009, Academia Europaea (*AE*) Member 2014, European Academy of Sciences and Arts (*Academia Scientiarum et Artium Europaea*) Member 2013, Indian National Academy of Engineering (*INAE*) Foreign Fellow 2013, Academy of Athens (*National Academy of Greece*) Corresponding Member 2013, International Congress on Fracture (*ICF*) Honorary Fellow 2017, Society of Experimental Mechanics (*SEM*) Fellow 2009, American Society of Mechanical Engineers (*ASME*) Fellow 1995, American Geophysical Union (*AGU*) Fellow 2017.

Conferences Led, Books/Papers Published

Rosakis has published over 200 articles and book chapters. He has delivered over 200 Plenary and Keynote lectures and 30 “Named Honor Lectures”.

Honors, Awards and Professional Registrations

Honored with many recognitions in mechanics and structures, in aerospace and in materials failure including the 1989 Rudolf Kingslake Medal and Prize from the International Society of Optical Engineering (SPIE) and with various prizes awarded by the Society of Experimental Mechanics (SEM). These include the 1992 Hetényi Award, the 1996 B. L. Lazan Award, and the 2003 Frocht Award. In 2005, the same society selected him to become the William M. Murray Medalist and Lecturer for his life-long contributions to the development and application of advanced methods for accurate measurement of transient, dynamic phenomena. In 2007, he received the Harting Award (SEM). In 2009, he was elected a Fellow of the American Academy of Arts and Sciences (AAAS). In 2010, he was awarded the Brown Engineering Alumnus Medal (BEAM) and the Robert Henry Thurston Award from the American Society of Mechanical Engineers (ASME). In 2011, he received the A.C. Eringen Medal from the Society of Engineering Science (SES) and he was elected Fellow of the National Academy of Engineering (NAE). In 2012, he was appointed Commandeur dans l'Ordre des Palmes Académiques from the Republic of France. In 2013, he received the P.S. Theocaris Award from the Society of Experimental Mechanics for his lifelong contribution to experimental science and mechanics. He was also elected member of the European Academy of Sciences and Arts (Academia Scientiarum et Artium Europaea), Foreign Fellow of the Indian National Academy of Engineering (INAE), and a corresponding member of the Academy of Athens (National Academy of Greece). In 2015, he received the Sia Nemat-Nasser Medal from SEM for his interdisciplinary utilization of experimental mechanics to advance the field of earthquake Seismology. In 2016, he was awarded the Theodore von Kármán Medal from The American Society of Civil Engineers (ASCE) “*For discovering several fundamental physical phenomena in dynamic fracture of heterogeneous materials and interfaces at various length and time scales*”, and was also elected member of the National Academy of Sciences (NAS). In 2017, he was elected Honorary Fellow of the International Congress on Fracture (ICF) and Fellow of the American Geophysical Union (AGU).