

Andres Tremante

1. Name and academic rank:

Andres Tremante, Teaching Professor, Department of Mechanical and Materials Engineering, Center for Diversity and Student Success in Engineering and Computing, Director.

2. Education – degree, discipline, institution, year

Ph.D. Fluid Mechanics and Thermodynamics on Turbomachinery. Multiphase Flow and Pumping. Energy Conversion and Transportation, École National Supérieur d'Arts et Métiers, ENSAM – Paris Tech. Paris, France, November 2000

Magister Scientiarum, Thermo-Fluids, Heat Transfer, Energy Conversion and Transportation. Universidad Simón Bolívar – USB. Caracas, Venezuela, May 1985

B.S. Mechanical Engineering, Universidad Simón Bolívar – USB. Caracas, Venezuela, May 1983

3. Academic experience – institution, rank, title

37 Years

Department of Mechanical and Materials Engineering – Florida International University (FIU), Teaching Professor. Undergraduate & Graduate courses and Research Areas: Thermodynamics, Fluid Mechanics & Heat Transfer, Statics & Dynamics, Thermal & Hydraulic Turbo machines, Internal Combustion Engines, Energy Systems, Hydro & Thermal Power Generation, Fossil & Renewable Energy, Energy and Sustainability Certificate Programs, Aerospace & Automotive Tracks. Since August 2020.

Center for Diversity and Student Success in Engineering and Computing, Director. Since December 2017. <https://cec.fiu.edu/academics/student-resources/cd-ssec-home>

Department of Mechanical and Materials Engineering (FIU), Associate Teaching Professor. August 2014 – July 2020.

Department of Mechanical and Materials Engineering (FIU), Assistant Teaching Professor. August 2008 – July 2014.

Senior Research Scientist. Applied Research Center (ARC-FIU). August 2006 – July 2008.

Invited Professor (Sabbatical leave). Department of Mechanical and Materials Engineering – Florida International University - FIU. August 2005 – July 2006.

Invited Professor (Sabbatical leave). Laboratoire de Dynamique des Fluides (Dynfluid).

École National Supérieur d'Arts et Métiers – ParisTech. September 1998 – August 1999.

Professor and Vice-President for Research & Development. Universidad Simon Bolivar – “USB”. In charge of the national, regional, and international industry, providing high-level professional services, technical support, and assistance. September 1999 – July 2005

Professor and Chairperson of “The Mechanical Energy Conversion Department & Laboratory”. USB. In charge of the Undergraduate & Graduate courses and Research Areas: Thermodynamics, Fluid Mechanics & Heat Transfer, Statics & Dynamics, Thermal & Hydraulic Turbo machines, Internal Combustion Engines, Energetic Systems, Hydro & Thermal Power Generation, Fossil & Renewable Energy, Oil Production & Multiphase Flow. June 1992- August 1998.

Professor: Energy Conversion & Transportation Department. USB. Caracas, January 2003 -

Associate Professor: Energy Conversion & Transportation Department. USB. January 1997 – December 2002.

Assistant Professor: Energy Conversion & Transportation Department. USB. January 1992- December 1996.

Academic Management activities:

Chair, Founder and Editor of the “International Conference on Education and Information Systems: Technologies and Applications” – EISTA. Orlando, FL. 2003 -. Sponsored by the International Institute of Informatics and Systemics (IIIS)

Chair and Editor of the “Engineering and Technological Innovation” – IMETI. Orlando, Fl. 2009 -. Sponsored by IIIS.

Chair, Founder and Editor of the “International Symposium on Energy, Informatics and Cybernetics” – EIC. Orlando, FL. 2006 -. Sponsored by the Energy Institute of the Americas (EIA) and IIIS.

Founder and Executive Director: “The Petroleum Center of Continuing Education and Technological Development”, CADETEP-USB, which oversees developing an active R&D program in the Petroleum and Mechanical Engineering Area, as well as professional development and continuing education activities in support of industry requirements. June 1995 – July 2005.

Professor and Vice-President for Research & Development. USB. September 1999 – July 2005. Leading the interaction with the national, regional, and international industry, providing high-level professional services, technical support and assistance. Also, has the responsible for all academic and administrative functions relating to the development for degree and non-degree extended studies, as well as the continuing education program for Latin America universities, along with the Oil Industry with the cooperation of Paris Tech and the Embassy of France, through the PCPI program “Programme de Coopération Postgradués avec l'Industrie”.

Associate Professor and Chairperson: “Mechanical Energy Conversion Department”. USB. September 1995 - August 1998. Undergraduate & Graduate courses and Research Areas: Thermodynamics, Fluid Mechanics & Heat Transfer, Statics & Dynamics, Thermal & Hydraulic Turbo machines, Internal Combustion Engines, Energetic Systems, Hydro & Thermal Power Generation, Fossil & Renewable Energy, Oil Production & Multiphase Flow. Assistant Professor and Chairperson: “Mechanical Energy Conversion Laboratory”. June 1992 – August 1995.

“Oil Production & Multiphase Flow” Researcher Scientist at “The Research & Technological Petroleum Institute of PDVSA”, INTEVEP. May 1985 - December 1991.