Dan G. Dimitriu, Ph.D.
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Current Title. Coordinator of Engineering Program

Education.

Ph.D. - Engineering; New York University; North Dakota State University; Fargo, ND (1993)
M.B.A. - International Economic Relations; Academy of Economic Sciences; Bucharest, Romania (1989)
M.S. - Mechanical Engineering; Polytechnic Institute of Bucharest, Romania (1970)
A.A. - Graphic Arts; Popular School of Arts, Bucharest, Romania (1974)

Certifications.

Registered Professional Engineer; License #3177/State of North Dakota
Teaching Certification #3102; Bucharest, Romania (1970)

Professional Society Memberships.

American Society for Engineering Education (A.S.E.E.) (Vice Chair); Two Year College Division (2005)
American Society of Mechanical Engineers (A.S.M.E.)
Society of Automotive Engineers (S.A.E.)
American Management Association (A.M.A.)
Society of Plastics Engineers (S.P.E.) (Vice President); Central Texas Section (2000)

Administrative Experience.

Coordinator of Engineering; San Antonio College (2001 - Present)
Project Investigator for META Grant; National Science Grant; San Antonio College (2001 - Present)
Project Investigator for ACCESS I and II Grants; National Science Grant; San Antonio College (2001 - Present)
Project Investigator for MSEIP Grant; Department of Education Grant; San Antonio College (2001 - Present)
Project Investigator for CIPAIR Grant; NASA Grant; San Antonio College (2001 - Present)
Grant Director for Early Development in General Engineering (EDGE) summer program; (2001 - Present)
Site Director for PREP Program; San Antonio College
Co-Director of Engineering for Educators Program; Center for Science and Mathematics Education; Our Lady of the Lake University; San Antonio, TX (March 2007 - Present)
Vice President/Engineering; PRISM Enterprises, Inc., San Antonio, TX (December 1997 to August 2001)
Senior Design Engineer/Project Manager; Kinetic Concepts, Inc.; San Antonio, TX (August 1993 - December 1997)
Director of Engineering; Dynamic Industries, Inc.; Barnesville, MN (June 1985 - July 1989)
Import/Export Manager; Industrial Export Import; Bucharest, Romania (January 1980 - March 1982)
Senior Design Engineer/Project Manager; Iprochim; Bucharest, Romania (September 1970 - June 1978)

Teaching Experience.

Associate Professor of Mechanical Engineering; San Antonio College (2009 - Present)
Adjunct Professor Engineering; University of Texas at San Antonio; San Antonio College (2004 - 2009)
Adjunct Professor Mechanical Engineering; San Antonio College (September 1995 - August 2001)
Lecturer/Researcher; Mechanical Engineering; North Dakota State University; Fargo, ND (September 1989 - May 1993)
Lecturer of Mechanical Engineering; North Dakota State University; Fargo, ND (August 1982 - May 1987)
Lecturer; Industrial College #4 "Semanatoarea"; Bucharest, Romania (December 1973 - June 1978)

Honors and Awards.

Education Improvement Mini Grant Awards; Alamo Community College District
Excellence in Teaching Award; National Institute for Staff and Organizational Development (NISOD); Austin, TX (2006)
San Antonio's Top Professor; Scene in SA Monthly (2006)
NSTI Research Faculty Fellow; NASA Johnson Space Center; Houston, TX (Summer 2010)

Committee Service.

ASEE (Vice Chair) of the Two Year College Division (2005)
Tuning Oversight Council for Engineering; Texas Higher Education Coordinating Board

Seminars and Conference Presentations

"Engineering, a Community College Program"; Chaired session at "Frontiers in Education 2002" Conference (2002)
"Committee on Enhancing the Community College Pathway to Engineering Careers"; National Academy of Sciences

"Engineering for Educators"; San Antonio Science and Mathematics Education Association Conference; San Antonio College (2007);

"Engineering Profession – The Best Career Choice"; Road to Success Conference; San Antonio, Texas (2006, 2007, 2008, 2009, and 2010)

Publications.

ASEE Peer reviewed Papers (Co-authored and Presented); ASEE Annual Conferences (2004, 2005, 2006, 2007, 2008, 2009 and 2010)

Dimitriu, Dan G. (December 1992); Ph.D. Dissertation: "Development of an Infrared/Visible Radiation Method for Ignition Delay Measurements and Premixed Combustion Analysis"; Department of Mechanical Engineering, College of Engineering and Architecture, North Dakota State University, Fargo, ND

Dimitriu, Dan G. (September 1979); Master's Thesis: "Analysis of Technology Import for Oxygen/Hydrogen Plants"; Department of International Economic Relations, Academy of Economic Sciences, Bucharest, Romania

Dimitriu, Dan G. (June 1970); Master's Thesis: "Design and Related Manufacturing Considerations of a 100 MW Steam Turbine"; Department of Mechanical Engineering, Polytechnic Institute of Bucharest, Bucharest, Romania

Dimitriu, Dan G. (2005); "ACCESS: Advancing Community College Engineering Student's Success"; American Mathematical Association of Two-Year Colleges

Dimitriu, Dan G. (May 2007); "Service Learning in a Freshman Engineering Course"; Community College National Center for Community Engagement; 16th National Conference

Technical Papers Published and Presented at Conferences.

932477 - Apparatus for Premixed Combustion Analysis
932478 - A Study of Energy Released During Premixed Combustion
910847 - Development of an Infrared Method for Ignition Delay Measurements
901617 - Apparatus for the Measurement of Ignition Delay Times for Diesel Engine Fuels
(Selected for publication in 1990 S.A.E. Transactions)
881262 - TITAN HL, A New Loader with a Higher Reach
871651 - 5480 Reach Truck, a New Concept in Reach Truck Design
871652 - Self-leveling Device for Three-Bar Linkage Mechanism Used in Industrial Equipment

American Society of Engineering Educators Papers.

2010-1628 – Community Colleges Can Help Universities During ABET Accreditation Efforts
2009-1514 - EDGE 2008 Program – The First Signs of Maturity
2008-253 - The Fifth Year of the EDGE Program – A New Beginning
2008-255 – Introduction of Service Learning in a Freshman Engineering Course
2007-247 - The evolution of the EDGE Program in its Fourth Year
2007-248 - The Need for a Quality Control System for Community College Engineering Education
2006-139 - The EDGE Summer Program in its Third Year
2006-253 - The Advantages of Starting an Engineering Education at a Community College
2005-229 - A Strategy for Success: The EDGE Program in the Second Year
2005-2339 - Exploring the Engineering Profession-A Freshman Engineering Course
2004-676 - Forging Stronger Ties between Community Colleges and Four Year Universities
2004-1266 - Getting an EDGE in engineering education

Patents.

7,418,751 Positional feedback system for medical mattress systems
7,346,945 Bariatric treatment system and related methods
6,904,631 Bariatric treatment system and related methods
6,892,405 Therapeutic bed and related apparatus and methods
6,536,056 Bariatric treatment system and related methods
6,361,542 Obstetrical vacuum extractor cup with force measuring capabilities
5,968,055 Amniotic membrane perforator
5,957,931 Obstetrical vacuum extractor cup
4,775,288 High-lift loader
4,465,280 Maze board game

Professional Development.

Leadership San Antonio XXXIV; 8-Month Leadership Program (2008 - 2009)
International Chairs' Academy Conference; Leadership Conference; Tucson, AR (2006)
National Institute of Leadership Development; Leadership Conference; San Antonio, TX (2003)

Other Related Work Experience.

Volunteered to review NSF proposals and papers submitted for presentation at ASEE, ASME, and Frontiers in Education conferences

Pioneered research and development of force measuring forceps incorporating fiber optic sensors through a technology transfer project from NASA.

Invented and developed several new products (see patents), major contributor to company's ISO 9001 and CE Mark certification

Import/Export Negotiator; Romchim, Bucharest, Romania (June 1978 - January 1980)

Consultant; San Antonio Area (2002 - Present)

Tax Advisor; H & R Block (December 1995 - April 1996)

Consultant for Business and/or Engineering Firms; Fargo/Moorhead, ND (1982 – 1993)

Expert Witness; Reconstruction Cases

Editor of Science and Technology; "*Lumea Libera*" ("*Free World*"), New York, U.S.A. (December 1988 - August 1991)

Translator (Part time) for English, French, and Italian Languages; Ministry of Foreign Trade; Bucharest, Romania (1979 – 1982)