



The Department of MECHANICAL ENGINEERING



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diMarzo, Marino



Professor
 Department of Mechanical Engineering
 Department of Fire Protection Engineering
 3104E JM Patterson, Building 083
 University of Maryland
 College Park, MD 20742
 Email: marino@umd.edu
 Phone: 301-405-5257

Research Interests

Fire protection agents
 Fire sprinklers
 Large-scale test instrumentation and data analysis
 Nuclear reactor safety thermal hydraulics

Background

Dr. diMarzo's expertise covers several areas of fire, heat transfer, multi-phase flow, and nuclear safety. He has had extensive collaboration with the Building and Fire Research Laboratory of the U.S. National Institutes of Standards and Technology, and is consulting for the U.S. Nuclear Regulatory Commission. Dr. diMarzo works with undergraduates and graduated students on their design and research projects.

Education

Ph.D., Catholic University of America, 1982

Honors and Awards

Fellow of the American Institute of Chemical Engineers (AIChE)
 Fellow of the American Society of Mechanical Engineers
 Honorary Member of the Unione Italiana di Thermo-Fluido-Dinamica (UIT)
 Special Act Award of the U.S. Nuclear Regulatory Commission

Professional Memberships and Service

U.S. Delegate to the International Heat Transfer Assembly
 Program chair, 1999 National Heat Transfer Conference
 Chair, Heat Transfer and Energy Division, American Institute of Chemical Engineers
 Associate Editor, International Journal of Heat and Technology
 Reviewer for Journal of Heat Transfer, International Journal of Heat and Mass Transfer, Nuclear Engineering and Design
 DOE Nuclear Energy Research Initiative
 DOD Next Generation Fire Suppression Technology Program

Selected Publications

2004

di Marzo, M., A.W. Marshall, "Modeling Aspects of Sprinkler Spray Dynamics in Fire," *Transactions of the Institution of Chemical Engineers*, Part B, Vol. 82, pp. 97–104, 2004.

Ruffino, P., M. di Marzo, "The Simulation of Fire Sprinklers Thermal Response in Presence of Water Droplets," *Fire Safety Journal*, Vol. 39, pp. 721–736, 2004.

2003

Ruffino, P., M. di Marzo, "Temperature And Volumetric Fraction Measurements In A Hot Gas Laden With Water Droplets," *Journal of Heat Transfer*, Vol. 125, pp. 356–364, 2003.

Ruffino, P., M. di Marzo, "The Effect of Evaporative Cooling on the Activation Time of Fire Sprinklers," *Fire Safety Science*, D.D. Evans ed., pp. 481–492, 2003.

2002

Quintiere, J.G., M di Marzo, R. Becker, "A Suggested Cause of Fire-Induced Collapse of the World Trade Towers," *Fire Safety Journal*, Vol. 37, pp. 707–716, 2002.

2001

di Marzo, M., "A Simplified Model of the BWR Depressurization Transient," *Nuclear Engineering and Design*, Vol. 205, pp. 107–114, 2001.

Guam, Y., M. Modarres, M. di Marzo, and D. Bessette, "A Method of Integrated Behavior Logic Modeling with Thermal Hydraulic—Probabilistic Assessment Screening and its Application to Identifying AP600 Accidental Scenarios," *Nuclear Technology*, Vol. 133, No. 3, pp. 269–289, 2001.

Related News

New Department Chairs Named

Balakumar Balachandran, James Milke picked to lead mechanical engineering, fire protection engineering. May 3, 2011

Department Well-Represented at OTC Invention Awards

Professors Baz & McCluskey earn top recognition. April 26, 2007