



# The Department of MECHANICAL ENGINEERING



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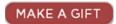
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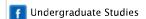
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## diMarzo, Marino



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

#### 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. di Marzo 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

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