







## **ASM'S 2010 Class of Fellows**

In 1969, ASM established the Fellow of the Society honor to provide recognition to members for their distinguished contributions to materials science and engineering and to develop a broadly based forum of technical and professional leaders to serve as advisors to the society. Following are the members recognized by their colleagues for 2009. Additional Fellows may be elected to this distinguished body in subsequent years. The solicited guidance, which the Fellows will provide to the Board of Trustees, will enhance the capability of ASM as a technical community of materials science and engineering in the years ahead.

	<p><b>Dr. Jerry L. Arnold</b> <i>Principal Research Engineer</i> <i>AK Steel Corporation</i> <i>Middletown, Ohio</i></p> <p>For the development and implementation of advanced processes to control zinc vapor in galvanizing and proprietary coatings for steels with highly oxidized elements.</p>
	<p><b>Mr. Robert P. Badrak</b> Manager, Materials and Processes Weatherford Houston, TX</p> <p>For significant and sustained contributions to materials science and design resulting in advanced materials applications, which enhanced drilling, completion and production of petroleum products.</p>
	<p><b>Dr. Sinn-Wen Chen</b> Professor National Tsing Hua University Taiwan</p> <p>For his pioneering research on lead free solder phase equilibria and the kinetics of reactions between solder and copper and nickel substrates.</p>

	<p><b>Dr. Bryan A. Chin</b>  Professor  Auburn University  Auburn University, Alabama  For his contributions to the understanding of the relationships between composition, microstructure, processing and mechanical properties of ferritic and austenitic steels for use in nuclear power generation.</p>
	<p><b>Dr. Glenn S. Daehn</b>  Mars Fontana Professor of Metallurgical Engineering  The Ohio State University  Columbus, Ohio  For pioneering research in high velocity metal forming; the implementation of unique processing technologies, and effective leadership in the work of the ASM Educational Foundation.</p>
	<p><b>Dr. Reinhold H. Dauskardt</b>  Professor  Stanford University  Stanford, California  For outstanding contributions to education and to the field of mechanical behavior and fatigue of ceramics, metallic, glasses, thin films and biomaterials.</p>



**Mr. Mitchell R. Dorfman**

Sulzer Metco Fellow  
Sulzer Metco (US) Inc.  
Westbury, New York

For outstanding contributions to the technology and application of thermal spray materials and coatings worldwide, and for outstanding professional service to technical societies.



**Mr. Larry D. Hanke, P.E.**

Principal Engineer  
Materials Evaluation and Engineering, Inc.  
Plymouth, Minnesota

For significant contributions to the field of materials science and engineering in the areas of failure analysis, development of medical devices, and mentoring of students.



**Dr. Daniel P. Henkel**

Technical Director  
Pall Corporation  
Cortland, New York

For outstanding contributions to the design and characterization of porous materials and sustained leadership in transferring emerging metallurgical technologies from university research to industrial markets.





**Dr. Mark F. Horstemeyer**

Cavs Chair in Solid Mechanics  
Mechanical Engineering Professor  
Mississippi State University  
Mississippi State, Mississippi

For developments in computational multiscale material modeling spanning atomic to macro length scales and quantification of structure – property relationships for inelastic behavior and fracture.



**Dr. Albert C. Kneissl**

Professor  
University of Leoben  
Leoben, Austria

For outstanding contributions to the advanced understanding of microstructure parameters/property relationships in metallic materials. Specifically in the fields of micro-alloyed steels, and shape memory alloys.



**Mr. William S. Loewenthal**

Engineer  
H C Stark Corporation  
Cleveland, Ohio

For successful contributions in solving complex technical problems that have led to commercial success in the manufacture of advance high performance alloys by robust manufacturing processes.



	<p><b>Dr. Tadashi Maki</b>  Executive Advisor  Nippon Steel Corporation  Chiba, Japan  For his research contributions in the area of the science and technology of martensitic phase transformations and the microstructure, properties and heat treatment of steels, shape memory and titanium alloys.</p>
	<p><b>Dr. Basil R. Marple</b>  Senior Research Officer  National Research Council of Canada  Industrial Materials Institute  Boucherville, QC, Canada  For significant contributions to the science and technology of thermal spray, and for providing leadership in disseminating technical information.</p>
	<p><b>Dr. James C. Marra</b>  Advisory Engineer  Savannah River National Laboratory  Aiken, South Carolina  For outstanding achievements in developing waste forms and related processes to immobilize nuclear waste for permanent disposal, and for significant contributions in the study of materials degradation in radioactive environments.</p>



**Dr. B.S. Murty**

Professor

Indian Institute of Technology Madras

Chennai, India

For distinguished contributions to the field of mechanical alloying and ball milling and for mentoring materials science students.



**Dr. Sundaram (Simon) L. Narasimhan**

Chief Engineer, Materials and Processes

Eaton Corporation Engine Air

Marshall, Michigan

For outstanding developments in cost effective high temperature wear materials for the automotive industry.






**Mr. Ronald J. Parrington**

President

IMR Test Laboratories Incorporated

Lansing, New York

For leadership in materials characterization and substantial contributions to materials education through mentoring, teaching and support of ASM.

	<p><b>Prof. Mark R. Plichta</b>  Professor and Chairman  Michigan Technological University  Houghton, Michigan  For his seminal contribution to understanding the mechanisms of massive transformations and for his pioneering innovations in the education of students in materials science and engineering.</p>
	<p><b>Dr. Baldev Raj</b>  Distinguished Scientist and Director  Indira Ghandi Centre for Atomic Research  Tamilnadu, India  For pioneering contributions to non-destructive testing of nuclear reactor materials and for the development of technologies for fast breeder reactors.</p>
	<p><b>Dr. Daniel G. Sanders</b>  Senior Technical Fellow  The Boeing Company  Seattle, Washington  For distinguished contributions to superplastic forming and joining technologies related to aluminum and titanium alloys for the aerospace industry.</p>





**Dr. Anil V. Virkar**

Distinguished Professor and Chair  
University of Utah  
Salt Lake City, Utah

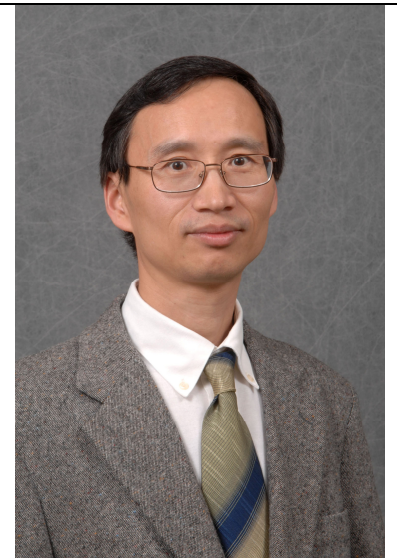
For sustained seminal contributions to the understanding of transport phenomena and its applications to elucidating phase transformation mechanisms and kinetics in refractory materials systems.



**Dr. Lawrence C. Wagner**

President  
LWSN Consulting, Inc.  
Plano, Texas

For significant contributions in failure analysis in the microelectronics industry and ASM International; and in leading the development at the ASM integrated Enterprise and in founding the Electronic Device Failure Analysis Society (EDFAS).



**Prof. Yuntian T. Zhu**

Professor  
North Carolina State University  
Raleigh, North Carolina

For pioneering work on the fundamental understanding of deformation mechanisms in nanomaterials and to enhance both strength and ductility of these materials, simultaneously.