



## Chair's Message



A. M. Rajendran  
Division Chair

First of all, it is an honor to serve ASME Materials Division (MD) as Chair for the Executive Committee in 2009-2010. I am indeed excited about sharing all the new things happening in the MD. The MD has been very active in recognizing contributions by nationally and internationally known researchers as well

as talented young investigators through a variety of awards. The MD facilitates ASME's annual Nadai Medal and the Orr Awards (<http://www.asme.org/divisions/materials/awards/index.html>). The Nadai Medal is awarded in recognition of significant contributions and outstanding achievements which broaden the field of materials engineering. Such achievements may be, for example, in the areas of education, research, development, and service to the field and profession. The last two outstanding winners of the Nadai Medal were: Prof. Zdenek P. Bazant of Northwestern University (2008) and L. Ben Freund of Brown University (2009). The MD committee proudly announces the 2010 Nadai Medal winner: Prof. Albert S. Kobayashi of University of Washington, Seattle, WA. The award includes a Bronze Medal and certificate, and a cash award of \$1000.

In 2008, through the dedicated efforts by Prof. Sia Nemat-Nasser of University of California at San Diego, CA, a new annual MD award in the name of "SIA NEMAT-NASSER (SNN) EARLY CAREER AWARD" for research excellence in the area of mechanics and materials by young investigators was established. This award recognizes individuals who are within 10 years after their Ph.D. degree, with special emphasis placed on under-represented minorities and women. This award, which carries a plaque, certificate, and an honorarium of \$5000, is presented annually at the IMECE. The deadline for nomination for SNN Early Career Award is September 1. Please refer to the MD website at: [http://divisions.asme.org/Materials/Honors\\_Awards.cfm](http://divisions.asme.org/Materials/Honors_Awards.cfm) for further details. The past SNN early career award winners

were Prof. Huiling Duan of Peking University in 2009, and Prof. Jiangyu Li of the University of Washington, Seattle, WA, in 2008.

The other MD awards include the Orr "Early Career" Award, and the Orr "Best Paper" Award.

The MD division is committed to expand its activities through technical committees. We currently have 6 committees: AMD-MD Joint Committee on Constitutive Equations, Polymers, Composites and Heterogeneous Materials, Electronic Materials, Materials Processing, and the Multifunctional Materials. While these committees cover the exciting, diverse research directions of yesterday and today, the MD executive members have identified the urgent need for two more new technical committees within the MD: Nanomaterials for Energy, and Nanomaterials for Medicine to support ASME's global initiative on these topics. The proposed new "Nanomaterials for Energy" committee will include renewable and other energy harvesting and energy conversion systems, and is expected to bring together different disciplines related to energy technology. This committee will review the current state of knowledge in the field of nanomaterials, functional surfaces and nanostructured coatings for efficient energy systems, as well as discuss novel applications and current challenges and opportunities. The proposed new Technical Committee on Nanomaterials for Medicine is expected to bring together different disciplines of biology and medicine to review the current state of knowledge in the field of nanomaterials with applications in biology and medicine, as well as discuss current challenges and opportunities.

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**Editor: Junlan Wang**

## Chair's Message

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The ASME Materials Division along with the ASME Bioengineering Division, ASME Heat Transfer Division, and the ASME Fluids Engineering Division has signed an agreement to serve on the Advisory Board to manage ASME's newest Journal on Nanotechnology in Engineering and Medicine. The MD EC members are excited about this opportunity to actively participate and to help ASME launching and promoting this multidisciplinary journal.

The ASME 2010 International Mechanical Engineering Congress and Exposition (IMECE) will be held in Vancouver, British Columbia, November 12 - 18, 2010. The Fluids Engineering Division and the Materials Division are organizing the 11th Symposium on Advances in Materials Processing Science at the 2010 IMECE. The purpose of this symposium is to bring together researchers from academia, industry, and government to promote further development in this broad field.

I would like to thank current members of the Executive Committee (EC), who have done a great job in representing the materials community. I sincerely thank the past MD chair Dennis Siginer of Petroleum Institute in Abu Dhabi, UAE for streamlining several

managerial tasks related to the Materials Division and for helping me during the transition. Mohammed Zikry of North Carolina State University, Raleigh, NC is the Vice Chair and will be assuming the Chair position next year. Hussein Zbib of Washington State University is doing an excellent job as the Editor of the ASME Journal of Engineering Materials and Technology (JEMT). He has helped the MD to recognize best JEMT papers for the past two years. The MD committee members are all actively participating in several ASME panels and groups, such as the BEGOB (Basic Engineering Group Operating Board). Vikas Prakash of Case western University who is the Honors and Awards committee chair did a marvelous job representing the Materials Division as a member-at-Large for BEGOB relating to conferences and programs. Julie Chen of University of Massachusetts, Lowell is significantly contributing to ASME as the Chair for 2010 IMECE in Vancouver BC, Canada. The MD also elected Karl Jacob of Georgia Institute of Technology, Atlanta, GA as the Secretary/Treasurer and his services to the BEGOB is admirable. I sincerely thank MD's Member-at-Large Junlan Wang of University of Washington, WA for editing and assembling this newsletter. Finally, I am indeed very thankful to the 2006-2007 MD EC Chair Dr. Mark Horstemeyer of Mississippi State University for inviting me to serve in the MD Executive Committee.

## ASME Journal of Engineering Materials and Technology



*Hessein M. Zbib  
JEMT Editor*

The ASME Journal of Engineering Materials and Technology (JEMT) continues to attract top-quality, peer-reviewed research papers from all over the world. Last year, two special issues were published. One was entitled "Shear behavior and related mechanisms in materials plasticity", Guest Editor Professor László S. Tóth

(Metz, France), and one entitled "Predictive Science & Technology in Mechanics & Materials", Guest Editors Professor Mark Horstemeyer and Douglas Bammann (Mississippi State University) and Dr. Mohamed Khaleel (Northwest Pacific National Laboratory). Special thanks to the Guest Editors for their hard work. Also last year the following three new Associated Editors have been elected to serve on the Board of Editors: Professor Hanchen Huang (University of Connecticut), Professor

Yoshihiro Tomita (Kobe University, Japan) and Professor Georges Cailletaud (l'Ecole des Mines de Paris, France); their service to JEMT is greatly appreciated.

Authors are strongly encouraged to submit their papers to JEMT. This journal covers a broad spectrum of issues regarding experimental, computational and theoretical studies of mechanical properties of materials, as well as mechanics of materials issues in metals, polymers, ceramics, composites, biomaterials, and nanostructured materials. Important topics include: multiscale characterization, modeling and experiments; high-temperature creep, fatigue and fracture; elastic-plastic behavior; environmental effects on material response, constitutive relations, materials processing, and microstructure-mechanical property relationships.

## 2008 Nadai Medal Award

The 2008 Nadai awardee was Prof. Zdenek P. Bazant, a resident of Evanston, Illinois, and McCormick Institute professor and W. P. Murphy professor of civil engineering and materials science at Northwestern University. He was recognized for demonstrating spurious localization instability in finite elements analysis with strain-softening models of quasi-brittle materials, devising a remedy by crack-band and nonlocal damage formulations, discovering and experimentally validating the energetic size effect law for such materials, and showing applications to particulate and fiber composites.

### Biography: Prof. Zdenek P. Bazant

Bazant got his Ph.D. in Prague in 1963, and joined Northwestern University in 1969, where he has been W.P. Murphy Professor since 1990 and McCormick Institute Professor since 2002. He is a member of National Academy of Sciences, National Academy of Engineering and American Academy of Arts and Science, as well as Italian National Academy (dei

Lincei), Austrian Academy of Sciences, Spanish Royal Academy of Sciences, Czech Academy of Engineering, European Academy of Sciences and Arts, and Istituto Lombardo. He holds six honorary doctorates (from CTU Prague, TU Karlsruhe, UC Boulder, Milan Polytechnic, INSA Lyon and TU Vienna). While Bazant has made major contributions to fracture mechanics, structural stability, plasticity, creep, constitutive modeling and probabilistic mechanics, he is best known for his size effect law. He authored six books: *Scaling of Structural Strength*, *Inelastic Analysis, Fracture and Size Effect*, *Stability of Structures*, *Concrete at High Temperatures*, and *Concrete Creep*. With H-index 52 and over 13,600 journal citations, he is one of the original top 100 ISI Highly Cited Scientists in Engineering.



*Prof. Zdenek P. Bazant  
Northwestern University*

## 2009 Nadai Medal Award

The 2009 Nadai medal awardee was Prof. L. B. Freund, a resident of Barrington, R.I., and the Henry Ledyard Goddard university professor and a professor of engineering at Brown University (Providence, R.I.). He was recognized for fundamental contributions to the mechanics of solids, dynamic fracture, stress waves in solids, computational mechanics, mechanics of thin films and mechanics of biological systems.

### Biography: Prof. L. Ben Freund

Freund received his Ph.D. degree from Northwestern University in 1967. He is the author or co-author of over 200 published articles on stress waves in solids, fracture mechanics, seismology, computational mechanics, dislocation theory, thin films, microstructure evolution in films, and engineering education, plus monographs on *Dynamic Fracture Mechanics* and on *Thin Film Materials*. His current research interests include:



*Prof. L. Ben Freund  
Brown University*

mechanics of biological materials (cell adhesion, molecular transport in cell walls) and mechanics of thin film materials (evolution of microstructure, influence of strain on quantum mechanical transport, lattice mismatched heterostructures). Freund presently serves as Vice-President of the International Union of Theoretical and Applied Mechanics and as Chair of the Engineering

Sciences section of NAS. He is an elected member of the National Academy of Sciences, the National Academy of Engineering, and the American Academy of Arts and Sciences.

# News from the Technical Committees

## AMD-MD joint committee on Constitutive Equations



*George Z. Voyiadjis  
Committee Chair*

The AMD-MD joint Committee on Constitutive Equations meets each year at the ASME International Mechanical Engineering Congress and Exposition. At the recent committee meeting, the following colleagues were voted into the committee starting in 2010: Alireza V. Amirkhizi (UC San Diego), Jennifer Gorczyca (U. Massachusetts – Lowell), Tarek Hatem (North Carolina State U.), Brian Jordon, (Mississippi State U.), Jaihyung Ju (Clemson U.), Sheng Liu (Huazhong U.), Kiran N. Solanki (Mississippi State U.). If you are interested in membership, please contact the chair of the Committee, George Voyiadjis (voyiadjis@eng.lsu.edu).

Our committee is organizing the following symposia for the 2010 ASME IMECE meeting in Vancouver, Canada:

- Modeling and Simulation at Atomic Scale, Organizers: Cemal Basaran (cjb@eng.buffalo.edu) and George Z. Voyiadjis (voyiadjis@eng.lsu.edu)
- Modeling and Experiments in Nanomechanics and Nanomaterials, Organizers: Yozo Mikata (aquarius\_ym@hotmail.com)
- Multiscale Modeling of Micro/Nano Structural Thin Films, Organizers: George Z. Voyiadjis (voyiadjis@eng.lsu.edu), Douglas J. Bammann (Bammann@cavs.msstate.edu), and Kiran N. Solanki (kns3@cavs.msstate.edu)
- Plasticity and Formability of Advanced Materials, Organizer: Xin Wu (xwu@eng.wayne.edu)
- Damage and Fracture Characterization of Engineering Materials, Organizers: Chi L. Chow (clchow@umich.edu), Kiran N. Solanki (kns3@cavs.msstate.edu), H. Eliot Fang (hefang@sandia.gov), Jie Shen (shen@umich.edu), and Xuming Su (xsul@ford.com)
- Low Cycle Fatigue Failure of Materials: Experiments and Constitutive Modeling, Organizer: Tasnim Hassan (thassan@ncsu.edu)

## Composites and Heterogeneous Materials Committee



*Valeria La Saponara  
Committee Chair*

The Composites and Heterogeneous Materials Technical Committee organized four symposia at the 2009 IMECE in Florida. At the committee meeting during IMECE 2009, Qingda Yang (U. Miami) was selected to be the future vice-chair who will join the upcoming chair Mrinal Saha (U. Oklahoma) to lead/coordinate

the committee activities effective November 2010. At the upcoming IMECE 2010, the committee members are organizing 10 symposia, with a broad range of Mechanics of Materials-related topics, and co-sponsoring from other Divisions. The symposia are:

- 2-5 Applications of Composites in Biomaterials and Bioengineering, organizer: A. Pelegri (Rutgers U.), Karen Yan (The College of New Jersey)
- 12-15 Transport in Heterogeneous Porous Media, organizer: K. Nakshatrala (Texas A&M), D. Turner (Sandia National Labs)
- 12-16 Mechanics of Composite Structures and Health Monitoring Sensors, organizer: V. La Saponara (UC Davis), M. Ruzzene (Georgia Tech)
- 12-17 Multifunctional and Nanostructured Materials: Modeling and Characterization, organizer: X.-L. Gao (Texas A&M), G. Seidel (Virginia Tech)
- 12-18 Size Scale Effects in Micro/Nano Structured Materials and Composites, organizer: R. K. Abu Al-Rub (Texas A&M)
- 12-19 Multiscale Mechanics of Composites with Coupled Mechanical and Non-Mechanical Behaviors, organizer: A. Muliana (Texas A&M), Vikas Tomar (Purdue U.), R. El-Hajjar (U Wisconsin-Milwaukee), V. La Saponara (UC Davis)
- 12-20 Novel Approaches in Heterogeneous Materials Analysis and Characterization, organizer: A. Pelegri (Rutgers U), V. La Saponara (UC Davis)
- 12-21 Virtual Testing of Composite Materials, organizer: Q. Yang (U. Miami), B. Cox (Teledyne), R. McMeeking (UC Santa Barbara)
- 15-5 Nanocomposites, organizer: M. Saha (Oklahoma), H. Mahfuz (Florida Atlantic U.)
- 15-6 Materials for Energy Applications, organizer: K. Cook-Chennault and A. Pelegri (Rutgers U.)

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# News from the Technical Committees *(continued)*

## Electronic Materials Committee



*Leila Ladani  
Committee Chair*

Main activity of electronic materials committee is organizing several electronic materials/mechanics symposia at the ASME International Mechanical Engineering Congress and exposition. Last year this committee organized symposium for emerging technologies (organized by Leila

Ladani from Utah State University and George Nanna from Purdue University) in collaboration with Electronic and Photonic Packaging Division that received very well by presenters. We had a keynote speaker, Prof. Cemal Basaran from State University of New York Buffalo, who presented "Using Single Walled Carbon NanoTubes for Electronics". This symposium will continue this year as a joint collaboration between MD and EPPD. In addition to organizing symposiums, we meet every ASME congress to plan for the next year's activities. We solicit proposals from potential organizers, encourage industry participation, discuss topics that are upcoming or of significance to industry.

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The composites and heterogenous materials committee are also preparing a special issue for the Journal of Engineering Materials and Technology, on Recent Advances on Composites and Heterogeneous Materials based on presentations/papers made at IMECE 2009.

The committee is proud to announce that our committee member Anastasia Muliana received a PECASE Award for her grant, 'Multifield Analyses of Smart Composites with an Application to Morphing Structures', sponsored by the Air Force Office of Scientific Research. Congratulations, Ana!

## Multifunctional Materials Committee



*Xi Chen  
Committee Chair*

The Multifunctional Materials Committee organized a symposium at the 2009 ASME-IMECE in Orlando, which contained 12 sessions and 58 speakers. Symposia topics (and organizer in parentheses) include: (1) Bio-inspired Materials

(Zhenhai Xia, Seyed Allameh, 1 session); (2) High Temperature Materials (Vikas Tomar, Jun Lou, 1 session); (3) Nanostructure and nanomaterial for sustainable energy and environment (Junhong Chen, Bingqing Wei, Vikas Tomar, 3 sessions); (4) Optimal Design of Structures (Craig Steeves, 1 session); (5) Smart Materials and Structures (Lorenzo Valdevit, 1 session), (6) Nanostructured Materials (Yong Zhu, Xi Chen, 4 sessions), and (7) Recent Advances in Computational Methods for Characterization (Traian Dumitrica, C. Ciobanu, 1 session). The symposium was co-sponsored by Integrated Structures and Hybrid Materials Committee from Applied Mechanics Division.

In addition to the successful symposium, the committee members met at the ASME congress to plan for the next year's activities including symposium in ASME and other society meetings and beyond. We solicit proposals from potential researchers from academia and industry, encourage keynote speakers, and promote topics that are "unique" and "attractive" to multifunctional materials including high temperature materials, materials for environmental impact, energy harvesting and storage, etc.

The committee thanks Junlan Wang for her outstanding service as 2007 and 2008 committee chair and welcomes Bingqing Wei as the 2009 and 2010 vice-chair (who will become the chair for 2011 and 2012). Please contact Xi Chen ([xichen@columbia.edu](mailto:xichen@columbia.edu)) if you would like to participate in ongoing activities or initiate new activities in the technical areas of relevance to multifunctional materials and systems. We welcome new members, new ideas and symposia proposals.

# News from the Technical Committees *(continued)*

## Materials Processing Committee

The materials processing committee has actively and successfully pursued organization of events for the exchange of technical information and findings related to various aspects of materials processing that are of current research interest to the community and ASME at large. The committee sponsored/co-sponsored five successful symposia at the IMECE 2008 in Boston including "Advances in Processing of Materials for Challenging Environments", "Electric and Magnetic Phenomena in Micro and Nano Material Systems", "Rheology and Fluid Mechanics of Non-linear Materials", "Advances in Materials Processing Science", and "Hybrid and Nano Composite Processing and Modeling". All these symposia were well received and was co-sponsored by MD, AMD, Fluids Engineering Division, and Manufacturing Engineering Division. For IMECE 2009 in Orlando, the committee sponsored symposia in the areas of "Advances in Processing, Characterization and Application of Bioengineered Materials", "Processing, Characterization and Modeling of Hybrid Material Systems", and "Fatigue and Fracture of Novel Materials". The committee is sponsoring three symposia for IMECE 2010 in Vancouver in the areas of "Innovations in Processing, Characterization, and Applications of Bioengineered Materials", "Processing, Characterization, Modeling and Applications of Hybrid Material and Multi-Scale Material Systems", and "Damage Mechanics of Engineering and Engineered Materials".



*Ram V. Mohan  
Committee Chair*

In order to further strengthen our committee activities and bring focused synergism in the technical area of material processing, a motion was proposed by the Materials Processing and Manufacturing Technical Committee (current chair: Dr. Xin Wu) during IMECE 2009 in Orlando to form a MD/AMD Joint Materials Processing Technical Committee. This will be similar to the current AMD/MD Joint Constitutive Equation Technical Committee. There is support from both AMD and MD for this new committee and further discussions are being held. Both MD and AMD technical committees are co-sponsoring the symposia for IMECE 2010.

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## Polymer Materials Committee

At the 2009 IMECE, the Polymers Technical Committee sponsored three sessions under the topic of Emerging Technologies in Polymer Engineering. This topic was cosponsored by the Design Division. The first session concerned polymer processing. The second session concerned modeling and experimental approaches, and the third session concerned experimental investigations of polymer deformation. These sessions were well attended by a broad international audience interested in many aspects of polymer engineering.



*Meisha L. Shofner  
Committee Chair*

At the 2010 IMECE, the Polymers Technical Committee is proposing a topic entitled Processing-Structure-Property Relationships of Polymer Micro/Nano Fibers. Papers will be presented concerning research areas such as electrospinning, materials characterization, modeling and simulations, multi-functional and bio materials, molecular deformation, surface/interface modifications, tissue engineering, polymer fibers for wind power, and aerospace applications. This topic is organized by Prof. Shing-Chung Wong from the University of Akron and Prof. Donggang Yao from Georgia Institute of Technology.

The next committee meeting will be held at the 2010 IMECE meeting in Vancouver. If you are interested in participating in this committee's activities or have suggestions for future programming, please contact Meisha Shofner ([meisha.shofner@ptfe.gatech.edu](mailto:meisha.shofner@ptfe.gatech.edu)).

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The materials processing technical committee meets every year during IMECE. The committee is committed to supporting symposia and forum for technical exchanges in emerging materials processing technology areas that require interdisciplinary focus and interactions. Please contact Prof. Ram Mohan ([rvmohan@ncat.edu](mailto:rvmohan@ncat.edu)) if you would like to participate in ongoing activities or initiate new activities in the technical areas of relevance to innovative material developments, materials processing and applications for energy, nanotechnology and infrastructure applications, interdisciplinary technology areas, as well as industrial practices.

# Materials Division Executive Committee 2009-2010

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## Materials Division Website

*The website for materials division is located at:*

*<http://divisions.asme.org/Materials/>*

*Members are encouraged to contact the web editor if  
they have pertinent information for posting.*

# Materials Division Technical Committees 2009-2010

## AMD-MD Joint Committee on Constitutive Equations

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## Multifunctional Materials

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## Symposium Announcement

A Memorial Symposium for Prof. Iain Finnie who was a Materials Division 1982 Nadai Medal recipient and Honorary Member in ASME will be held in University of California, Berkeley on Saturday, September 25th, 2010. Please visit: <http://www.iainfinnie.com/> for further details.