MS&T ’10
Materials Science & Technology
2010 Conference & Exhibition

The leading forum addressing structure, properties, processing and performance across the materials community.

Advance Program

ACerS
The American Ceramic Society

AIST
Association for Iron & Steel Technology

ASM
ASM International®

TMS
The Minerals, Metals & Materials Society

Co-sponsor:
NACE International

www.matscitech.org
Plenary Session

This year’s conference will draw attendance from more than 72 countries and will attract the best and brightest minds in the materials community. The MS&T10 Plenary Session is focused on energy infrastructure, policy and security related to materials science and engineering.

Energy, Infrastructure, Policy, and Security

Tuesday, October 19, 2010 • 8:30 to 10 a.m. • George R. Brown Convention Center

Join us for a fascinating plenary session on one of the most important areas of opportunity in materials today—energy! Eugene R. McNabb, Director of Sandia National Labs and Science and Technology Centers will open the session with his lecture, “Energy, Climate and Global Security in the 21st Century.” Since 1949, SNL has developed scientific knowledge aimed at supporting national and international security. Today, over 3,000 scientists, engineers and professionals are working together on basic and applied research to solve national and global threats to peace and freedom. The Energy, Resources and Nonproliferation Program serves to underwrite international excellence in energy science, technology, and engineering; continuously improved understanding of complex systems; contributions in arenas where technology and policy intersect; and appropriate global engagement to achieve: 

• Improved energy and resource security (energy, sustainability, reliability, security)
• Improved policies and decisions in the promotion of domestic and international energy production
• Increased world stability

Following McNabb’s lecture, you will have the opportunity to interact with two distinguished plenary panels on the implications of emerging energy opportunities for the materials science and engineering community. Specific areas of focus will include: recoverable energy, energy systems engineering and infrastructure—frontier and vulnerability analyst impact of energy and climate change on the U.S., security posture, energy policies in the U.S. government, and oil and gas.

Plenary Panels:

Robert T. McGrath, “Alternative Energy Sources for Reducing Dependence on Fossil Fuels”

McGrath, National Renewable Energy Lab (NREL) Deputy Laboratory Director, Science & Technology, leads all aspects of the Laboratory’s science and technology development. He has 27 years experience in government lab, industry and academia, including managing the Ohio State University’s $70 million annual research program.

David Robinson, “Biorefinery: The End of the Beginning”

Robinson is the CEO of Endicott Biofuels and has an extensive background in petroleum refining, petrochemicals, toll chemical manufacturing, and specialty refining and technology. Prior to joining Endicott, Robinson was vice president of chemical manufacturing, and specialty refining and technology. Prior to joining Endicott, Robinson was vice president of Endicott, Robinson was vice president of	company. He has over 27 years experience in the refining, petrochemicals, toll chemical manufacturing, and specialty refining and technology. Prior to joining Endicott, Robinson was vice president of chemical manufacturing, and specialty refining and technology. Prior to joining Endicott, Robinson was vice president of chemical manufacturing, and specialty refining and technology. Prior to joining Endicott, Robinson was vice president of chemical manufacturing, and specialty refining and technology.

The American Ceramic Society (ACerS) strives to advance the study, applications, and research of ceramics, electronics, glasses, and related materials in the materials community and beyond. ACerS is committed to providing high-quality scientific programs and networking opportunities. ACerS members at MS&T10 will enjoy access to the world’s premier ceramic and glass technical conference, ACerS Annual Meeting, which will feature 18 sessions, including 120 technical papers. The Annual Meeting will be launched in July at www.energy.tms.org. In the meantime, visit our

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Program-at-a-Glance

Biomaterials and Biomedical Engineering

Nanomaterials and Nanoscale Science

Polymer Interfaces and Interfaces in Plastics

Ceramic and Glass Materials

All-Solid-State Energy Storage

Advances in Ceramic Matrix Composites

Composites and Advanced Materials: Common Issues within Science and Technology

Glass and Optical Materials

Nanomaterials: Properties, Applications and Innovations in Processing and Synthesis of Ceramics, Glasses and Composites

International Symposium on Defects, Transport and Related Phenomena

Hands-on Workshops and Design Charrettes

Electronic and Magnetic Materials

Magnetoelectric Multiferroic Thin Films and Multilayers

Green Energy Technologies

Nanolaminated Structures in Advanced Materials and Technologies

Environmental and Energy Issues

Smart Energy: Fuel Cells, Solar and Renewable—Materials, Processing and Manufacturing

Energy Materials: Battery Technology

Energy: Materials, Energy and Environment

Environment and Energy Issues

Light-Weight Materials for Vehicle and Components

Developing Smart Energy and Environmentally Friendly Materials

Materials Solutions for the Nuclear Renaissance

Fundamentals and Characterization

A Symposium in Honor of Professor Rosa Abraham

Processing, Crystal Growth and Phase Equilibrium of Advanced Materials

Dr. J. Sumpter: A Memorial Symposium: Deformation and Interfacial Phenomena in Advanced High-Temperature Materials

High-Salinity Remote Behaviors of Composite and Heterogeneous Materials: Experiments, Modeling, and Simulations

Multimode Microscopy of Microstructure Deformation in Material Processing

Phase Stability, Diffusion, Kinetics and Their Applications (PD&K)

Recent Advances of Structural Characterization of Materials

Solidification and Crystal Growth Technology for Industrial Applications: Developments in the Past Decade

Topic, Water, Database and Simulation Tools Developed and Needed to Realize the Vision of Integrated Computational Materials Engineering

Iron and Steel

Advanced Processing in Processing and Properties of NiCo-coated Advanced High-Strength Steels

Austenite and Austenite Compositional IV

Processing, Microstructure and Properties of Cold Iron and Cast and Forged Specialty Steels

Recent Developments in Steel Processing

Steel Product Metallurgy and Applications

Materials Performance

Advanced Metallic Materials: Technological Exploration of Mechanical Properties

Fatigue and Fracture

Handling Coatings for Wear and Corrosion Resistance Applications


Surface Protection for Broad Applications: Titanium Alloys for High Temperature Applications

Plasticology, Recent Issues and Practical Solutions

Nanotechnology

Controlled Processing of Nanoparticle-based Materials and Nanofabricated Films

Mechanical Behavior of Nanoparticles and Nanostructures

Non-oriented and Oriented Silicon Steels: Performance and Applications

Nanotechnology for Energy, Healthcare and Industry

Nanodielectric Metal Matrix Composites I

Nanomaterials: New and Improved Nanoindenting and Grain Growth: Applications, Theory and Nanoscale Challenges

Processing and Product Manufacturing

Functional Materials: Applications and Innovations in Food Treatments

High-performing Research Materials

Joining of Advanced and Specialty Materials XII

Low Applications in Materials: Processing, Corrosion, Solidification and Formation of High-strength Steel, Titanium and Light Metals

Special Topics

2010-2015 TMS Distinguished Lecturer in Materials and Society

Journal of Undergraduate Materials Research: Undergraduate Presentations

National Materials Advisory Board Dissertation Series

Perspectives for Emerging Materials Professionals: Early Career for Development

Richard M. Fulrath Award Lecture

Status of Ceramic Engineering Education in the United States

Student Career Development and K-12 Outreach Exhibition
FUNDAMENTALS AND CHARACTERIZATION

- A Symposium in Honor of Professor Reza Abazari: Processing, Crystal Growth and Phase Equilibrium of Advanced Materials
- Phase Transformation and Equilibrium II: Powder Processing and Mechanical Properties; Solidification and Crystal Growth I: Deformation and Interfacial Phenomena in Advanced High-temperature Materials
- Joining Ceramics and Metals; Current Topics I: Joining Ceramics and Metals; Current Topics II: Processing and Properties of Alloys and Composites I: Processing and Properties of Alloys and Composites II: Refractory Materials
- High Strain Rate Behaviors of Composites and Heterogeneous Materials: Experiments, Modeling, and Simulation of Enviro-Structural Behavior of High Strain Rate Behavior of Composites I: High Strain Rate Behavior of Materials and Structural Components
- Multicellular Modeling of Microstructure Design in Material Processing: Session I; and Session II
- Phase Stability, Diffusion, Kinetics and Their Applications in Metallurgy and Ceramics: A Symposium in Honor of the late Dr. John J. Stephens, Jr.
- Recent Advances in Structural Characterization of Materials
- Imaging and Tomography: Developments and Applications I: Imaging and Tomography: Developments and Applications II: Imaging and Tomography: Developments and Applications IV: Other Techniques: Developments and Applications
- Imaging and Tomography: Developments and Applications I; Imaging and Tomography: Developments and Applications II; Imaging and Tomography: Developments and Applications IV; Other Techniques: Developments and Applications; X-ray and Neutron Diffraction: Developments and Applications
- Recent Developments in Structural Characterization of Materials
- Solidification and Crystal Growth Technology for Industrial Applications: Developments in the Past Century
- Bulk Crystals and Thin Films of Oxides—Growth Optimization and Applications; Processing, Properties and Applications of Alloys—Role of Interfaces and Solidification Processes in Stable and Metastable Structures
- Tools, Models, Databases and Simulation Tools Developed and Needed to Realize the Vision of Integrated Computational Materials Engineering (ICME) Model and Simulation Tools in an EMD and How to Overcome It; ICME: Experimentation and Integration of Models; ICME: Information and Infrastructure; ICME: Material Modeling and Simulation Tools I; and ICME: Material Modeling and Simulation Tools II
- Mechanical Behavior of Advanced Materials; Achievements in Steel and Ferritic Alloys; Advanced Synthesis and Processing; and New Advanced Materials
- Failure Analysis and Prevention
- Corrosion, Fatigue and Fracture; Natural Disaster, Non-Destructive Testing, Oil and Gas, Space Systems; Tools and Techniques; and Corrosion, Fatigue and Fracture II
- Hardfacing Coatings for Wear and Corrosion Resistance Applications
- Protective Coatings: Chromium; Corrosion and Wear Protection I; and Corrosion and Wear Protection II
- Structural Materials for Aerospace and Defense: Challenges and Prospects
- Surface Protection for Enhanced Materials Performance
- Environmental Barrier Coatings, Environmental Multifunctional Coatings; Thermal Barrier Coatings; and Thermal Barrier and Protective Coatings
- Titanium Alloys for High Temperature Applications
- High Temperature Titanium: Applications, Processing, and Properties; and High Temperature Titanium: Environmental Protection and Corrosion, and Composites
- Tribological Contacts: Recent Issues and Practical Solutions
- Coatings, Composites and Lubricants I; Coatings, Composites and Lubricants II; Nanotechnology and Metal-Friction

IRON AND STEEL

- Achievements in Processing and Properties of Zirconia-Alumina Advanced High Strength Steels
- Processing, Microstructure, and Properties of Cast Irons and Cast and Forged Speciality Steels
- Recent Developments in Steel Processing
- Aluminum and Thermal-Mechanical Processing; Forging, Tinning, and Plate Steels; Recent Developments in Steel Processing and Strengthening and Cutting
- Hardfacing Coatings for Wear and Corrosion Protection I; and Corrosion and Wear Protection II
- High Strain Rate Behaviors of Composites and Heterogeneous Materials: Experiments, Modeling, and Simulation of Enviro-Structural Behavior of High Strain Rate Behavior of Composites I: High Strain Rate Behavior of Materials and Structural Components
- Recent Developments in Structural Characterization of Materials
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- Coatings, Composites and Lubricants I; Coatings, Composites and Lubricants II; Nanotechnology and Metal-Friction

MATERIALS PERFORMANCE

- Advanced Metallic Materials: Technological Exploitation of Mechanical Properties
- Achievements in Steel and Ferrous Alloys; Advanced Synthesis and Processing; Mechanical Behavior of Advanced Materials; and New Advanced Materials
- Failure Analysis and Prevention
- Corrosion, Fatigue and Fracture; Natural Disaster, Non-Destructive Testing, Oil and Gas, Space Systems; Tools and Techniques; and Corrosion, Fatigue and Fracture II
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- Tribological Contacts: Recent Issues and Practical Solutions
- Coatings, Composites and Lubricants I; Coatings, Composites and Lubricants II; Nanotechnology and Metal-Friction

MS&T’10 Symposium

- Light Weight Materials for Vehicles and Components
- Joining Lightweight Materials—Composites and Nanocomposites; and Joining Lightweight Materials—Deformation, Microstructure and Tribology
- Materials Solutions for the Nuclear Renaissance
- Advanced Nuclear Fuels; Advanced Nuclear Fuels—Development and Characterization; Instrumentation and Analysis; and Thermal-Mechanical Properties and Applications (PSDK-V)
- Solutions for Nuclear Applications: Ceramics, Modeling and Joining
NANOTECHNOLOGY
• Controlled Processing of Nanoparticle-based Materials and Nanomaterials
  Direct Manufacturing of Nanomaterials • Direct Manufacturing of Nanomaterials 1 • Low-dimensional Nanomaterials 1 • Low-dimensional Nanomaterials 2 • Nanocomposites;
  Processing and Sintering; Thin Films 1; Thin Films 2; and Novel Nanomaterial Approaches
• Mechanical Behavior of Low-dimensional Materials
  Advanced Rolling Technique I—Advanced Rolling Technique II; Graphite; Carbon Nanotubes and Polymers; Mechanical Behavior of Nanocrystalline Materials; Strengthening and Deterioration Mechanisms in Thin Films; and Twins and Nanocrystalline Metals

PROCESSING AND PRODUCT MANUFACTURING
• Novel Sintering Processes and New in Traditional Sintering and Grain Growth
  Applications, Theory, and Nanoscale Challenges
  Advanced Sintering; Novel Sintering Models; and Novel Sintering and Sintering Processes; and Novel Sintering Approaches
• Nanocomposites; Processing and Sintering; Thin Films I; Thin Films II; and Novel Nanomaterial Approaches

SPECIAL TOPICS
• Jointing of Advanced and Specialty Materials XII
  Corrosion of Advanced Materials; Sintering of Advanced Materials; and Advanced Materials Processing
• 2010 ASM/TMS Distinguished Lecture in Materials and Society
  ASM/TMS Materials and Society
• Journal of Undergraduate Materials Research:
  Undergraduate Presentations
• National Materials Advisory Board Dissemination Series
  Session I; Session II; Session III; and Session IV
• Perspectives for Emerging Materials Professionals: Early Strategies for Career Development
  Session I; Session II; Session III; and Session IV
• Status of Ceramic Engineering Education in the United States
  Session I; Session II; Session III; and Session IV
• Student Career Development and K-12 Demo Exhibition
  Session I; Session II; Session III; and Session IV

Symposia

NANOMETALLOLOGY
• Nanodiffused Ternary Carbides and Nitrides
  Materials Science and Engineering
  Nanodiffused Ternary Carbides and Nitrides; Nanodiffused Ternary Carbides; and Nanodiffused Ternary Carbides
• Novel Sintering Processes and New in Traditional Sintering and Grain Growth
  Applications, Theory, and Nanoscale Challenges
  Advanced Sintering; Novel Sintering Models; and Novel Sintering and Sintering Processes; and Novel Sintering Approaches
• Nanocomposites; Processing and Sintering; Thin Films I; Thin Films II; and Novel Nanomaterial Approaches
**SATURDAY, OCTOBER 16**

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>Material Advantage Student Functions</strong></td>
<td>Noon to 3 p.m.</td>
<td>HA</td>
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<tr>
<td>Chapter Leadership Workshop</td>
<td>3 to 5 p.m.</td>
<td>HA</td>
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</tbody>
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**SUNDAY, OCTOBER 17**

<table>
<thead>
<tr>
<th>Conference Activities</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASM Materials Education Foundation Board of Trustees Meeting</td>
<td>7 a.m. to 11 a.m.</td>
<td>HA</td>
</tr>
<tr>
<td>MS&amp;T/ASM Annual Meeting &amp; Awards Ceremony</td>
<td>Noon to 2 p.m.</td>
<td>HA</td>
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<tr>
<td>Student Networking Mixer</td>
<td>2 to 5 p.m.</td>
<td>HA</td>
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</tbody>
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**TUESDAY, OCTOBER 19**

<table>
<thead>
<tr>
<th>Conference Activities</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Educational Courses</td>
<td>8 a.m. to 5 p.m.</td>
<td>HA</td>
</tr>
<tr>
<td>MS&amp;T/ACerS Ceramographic Display</td>
<td>7 a.m. to 2 p.m.</td>
<td>HA</td>
</tr>
<tr>
<td>ASM Guest Hospitality</td>
<td>7 a.m. to 2 p.m.</td>
<td>HA</td>
</tr>
<tr>
<td>Registration</td>
<td>7 a.m. to 5 p.m.</td>
<td>HA</td>
</tr>
<tr>
<td>Social Events</td>
<td>7 a.m. to 10 a.m.</td>
<td>HA</td>
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<td>Chapter Leadership Workshop</td>
<td>3 to 5 p.m.</td>
<td>HA</td>
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</table>

**WEDNESDAY, OCTOBER 20**

<table>
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Lectures and Special Events

Attention Students:

MS&T 2010 Student Travel Grants

The Materials Advantage Program Student Tour Grants is now accepting student tour requests for attending AA&M/MS&T in October 2010. Selected students will receive a travel grant up to $250 to offset travel fees.

Selection Criteria:

1. A student tour leader will be selected to represent the student tour.
2. The students selected for the tour grants will be limited to one grant per student.
3. The student tour leader must have submitted the student tour grant forms by the deadline date.
4. The student tour leader will need to pay the conference registration fees.

Application Procedure:

1. To be eligible to apply for the travel grants, students must register for the conference by the deadline date.
2. Students must submit the travel grant forms to the conference registration desk.
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TMS-NMD Materials Digital Library Roundtable Workshop: IHCNE, Undergraduate Education and Mofage Program

Follows ICME: Experimentation and Integration of Models and Precedes ICME: Panel Discussion on PMSE in the context of other materials science conferences and journals.

Student Activities

See Calendar of events on pages 13-10 for times and locations.

Art of Networking

Follows ICME: Material Model and Simulation Tools, Part I and Precedes ICME: Panel Discussion on PMSE in the context of other materials science conferences and journals.

Student Networking Mixer

Make new friends and learn about the career opportunities available in the materials field. RSVP to Lori Wharrey at lwharrey@aist.org or (724) 814-3044.

Professional Recruitment & Career Pavilion Networking Reception

Network and share best practices! This workshop provides a detailed introduction to the Materials Advantage Student Program, its opportunities, and its benefits. RSVP to Lori Wharrey at lwharrey@aist.org or (724) 814-3044.

Student Lunch with AIST Foundation Trustees

A Student Lunch with AIST Foundation Trustees will be held on Tuesday, October 19, 2010. RSVP to Lori Wharrey at lwharrey@aist.org or (724) 814-3044.

Student Activities

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Exhibit Hours:

- Tu-Th: Monday, October 18, 11 a.m. to 6 p.m.
- Friday, October 19, 11 a.m. to 6 p.m.
- Saturday, October 20, 10 a.m. to 3:30 p.m.
- Sunday, October 21, 10 a.m. to 3:30 p.m.

Register online at www.matscitech.org

Why Should You Attend the Exhibit?

Business gets done when partners meet face-to-face. Connect with materials and metals vendors at the MS&T’10 exhibit. Bring together scientists, engineers and suppliers to target the audience. The MS&T Trade Pavilion will shape the future of materials science and technology through product demonstrations, informal networking, and proximity to cutting-edge research presentations. With more than 150 materials science and technology exhibitors participating, the MS&T ’10 event is a great place to meet a variety of professionals in one place! Expo-only tickets are $25.

Why Should Your Company Exhibit?

- Unique Forum—Offer you access to thousands of materials professionals.
- Powerful Marketing—Offer $30 of attendees have significant buying power.
- Get a Pulse on the Industry—More than 3,300 attendees are expected.
- MS&T Show Floor—More than 95% of attendees reported spending more than an hour in the exhibit hall at the 2009 event.
- On-Floor Attractions—
  - Expert Technical Panel Discussion
  - Mug Drop and Putting Contests
  - Great Vendor and Value—Don't miss the opportunity to get quality leads efficiently.

Why Should You Attend the Exhibit?

Connect with Materials Professionals at MS&T’10!

Why Should Your Company Exhibit?

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Connect with Materials Professionals at MS&T’10!
Bayou Blvd – Collection & Gardens Tour
Thursday, October 13, 2010 - 10:00 – 3:00 a.m.

Description: Fossilized in 14 rolling acres, woodlands in the forest River Oaks, history of the land behind the scenes.
Bayou Blvd was the sanctuary from the house and bushel of the big city that was the home of the great Kim Hogg. It now serves as the decorative arts wing of the Museum of Fine Arts, Houston. Architect John Staub built Hogg’s Prison design house as a “...adding to that loveliness,” His innovative design is carried through into the home.

Overview:
• Discuss the structure of the house
• Describe the master suite and its design
• Discuss the history of the house

Instructor: Rob Huggins, Ph.D., Hogg Research Center at Lewis Field (Retired)

Thermal Spray Technology
Instructor: Chris Bond, Ph.D., Missouri University of Science and Technology

Overview:
• Thermal spray technology and its role in maintenance
• Types of metal, ceramic, and composite thermal spray powders
• Thermal and mechanical properties of different thermal spray powders
• Comparison of different thermal spray processes

Thermal Spray Technology: Principles
Instructor: Chris Bond, Ph.D., Missouri University of Science and Technology

Overview:
• Do you understand the fundamentals of thermal spray technology?
• Do you have a conceptual understanding of the different types of thermal spray processes?
• Do you know how to design and implement thermal spray processes?

Microstructures 101 and Beyond
Instructor: Mohamed N. Rahaman, Missouri University of Science and Technology

Overview:
• Can you describe the microstructures of different materials?
• Are you familiar with the factors that affect the formation of microstructures?
• Can you use microstructures to predict the performance of materials?

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• Can you use microstructures to predict the performance of materials?
Hotel Information and Transportation

Hotel Options
Reserve your room through the Greater Houston Convention and Visitors Bureau at one of the official conference hotels in downtown Houston where MS&T has arranged for attendee discounted rates. Please note that MS&T has assumed a financial liability for any and all hotel rooms in blocks that are not reserved. We ask that you kindly reserve your room at one of the hotels listed below in order to limit our financial liability for the overall success of the meeting. Thank you for your cooperation!

Hilton Americas Houston
Attached to Convention Center
ACerS, AIST, ASM and TMS headquarters hotel
Address: 1600 George Bush Dr S, Houston, TX 77002
Website: www.hiltonamericastransportation.com/houston
Phone: (713) 227-6331
Fax: (713) 227-6332
Lodging Code: HTON

Embassy Suites by Hilton Houston Downtown
Adjacent to Convention Center
6 blocks from Convention Center

The George R. Brown Convention Center is located in the heart of downtown Houston at 1001 Avenida de Las Americas. Visit www.matscitech.org for detailed driving directions to the Center.

Airport Shuttle Service
SuperShuttle provides ground transportation services at both George Bush Intercontinental Airport and William P. Hobby Airport. Advance reservations are required, but are not required for service from either airport. Please note: however, if advance reservations are required for the return trip from your hotel to the airport. For reservations or for more information call (713) 523-8888 or visit www.supershuttle.com.

Taxi Service
The average taxi fare from the Bush Intercontinental Airport to downtown Houston is $45 and from Hobby Airport is $22.

Hertz Car Rental
Special discounted rates have been arranged with Hertz. Call Hertz directly at (800) 654-2240 or reserve your car online at www.hertz.com and reference the MS&T Conference discount number CV#01Y8002 to reserve your special car rental rates.

Hotel Selection: Indicate 1st, 2nd and 3rd choice and circle applicable rate.

<table>
<thead>
<tr>
<th>Hotel Selection</th>
<th>Rate Code</th>
<th>Single</th>
<th>Double</th>
<th>Triple</th>
<th>Quadruple</th>
<th>Govt. Rate*</th>
<th>Govt. Rate*</th>
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<th>Govt. Rate*</th>
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</thead>
<tbody>
<tr>
<td>Alden Houston Hotel</td>
<td></td>
<td>$165</td>
<td>$162</td>
<td>$179</td>
<td>$179</td>
<td>$118</td>
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<tr>
<td>Inn at the Ballpark</td>
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<td>$199</td>
<td>$202</td>
<td>$206</td>
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<td>$139</td>
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<tr>
<td>Residence Inn by Marriott Houston-Downtown</td>
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<td>$179</td>
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Notes: Rates are per room and do not include 17% tax.

Airport

Reserve your room online at www.matscitech.org

Transportation
Traveling to Houston has never been easier. As the fourth largest U.S. airport system and sixth largest in the world, the Houston Airport System is made up of George Bush Intercontinental (20 miles from downtown Houston) and William P. Hobby Airport (11 miles from downtown Houston), which serves about 180 cities worldwide.

For reservations at Alden, Hilton and Inn at the Ballpark, please indicate: reservation@ghcvb.org, through 9/24/10.

Cancellation Policy: Reservations cancelled less than 72 hours prior to receipt of scheduled arrival date will be charged one night rate and tax.

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Three Ways to Register:

• Online at www.matscitech.org
• Mail the enclosed registration form with payment
• Fax the enclosed registration form with credit card information

Registration cannot be processed without full payment. Advance registrants will receive an e-mail confirmation when their registration is processed.

Badge Pick-up and On-site Conference Registration
The MS&T Conference Registration Desk will be located on the 3rd floor of the George R. Brown Convention Center. Advance registrants may pick up badges at the registration area during the following hours:

Sunday, October 17 2 to 7:30 p.m.
Monday, October 18 7 a.m. to 5 p.m.
Tuesday, October 19 7 a.m. to 6 p.m.
Wednesday, October 20 7 a.m. to 5 p.m.
Thursday, October 21 7 a.m. to 2 p.m.

Cancellation Policy
Registration fees will be refunded, less a $50 service fee, after the close of the event if written request is received on or before September 24. After September 24, no refund requests will be granted. Send all written requests to MS&T, c/o Registration Control Systems; 1833 Portola Rd., Suite D, Ventura, California 93003.

Americans with Disabilities
In accordance with the Americans with Disabilities Act (ADA) of 1990, ACerS, AIST, ASM, TMS, NACE, the George R. Brown Convention Center and all conference hosts are striving to accommodate all guests with special needs. If you require access to modified housing, transportation, or other assistance, please provide this information in detail on both your registration and housing forms.

Audio and Visual Recording of Technical Paper Presentations and Sessions
ACerS, AIST, ASM, TMS and NACE reserve the right to any still photography, audio and video reproductions of presentations at every technical session. Recording of sessions (audio, video, still photography, etc.) intended for personal use, distribution, publication, or copyright without the express written consent of MS&T and the individual authors is strictly prohibited.

Registration Form
Advance Deadline: September 24, 2010

If you are an ACerS, AIST, ASM, TMS, or NACE member or student member, you will receive a discount (up to 50%) on your registration. If you are an ACerS, AIST, ASM, TMS, or NACE member, you will receive a complimentary one-year membership to registrant’s choice of one or more organizations: ACerS, AIST, ASM, and TMS.

Refund requests will be granted. Send all written requests to MS&T, c/o Registration Control Systems; 1833 Portola Rd., Suite D, Ventura, California 93003.

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