Welcome Back!

What an exciting time of year!! On behalf of the GMS officers, I would like to welcome everyone back to Case Western Reserve University and to the Department of Materials Science and Engineering. To those new to campus, a special welcome and thanks for choosing CWRU DMSE as the next step in your academic career.

GMS has nothing short of an incredible schedule of activities to enhance your campus experience through professional and social events. This fall kicks off with a Happy Hour cruise on the Goodtime III, followed by a Welcome Back BBQ jointly hosted with the Undergraduate Materials Society. Please refer to the schedule of events on pages 2-3. There are weekly seminars, lunches and happy hours throughout the term. In addition, plans are underway for an alumni/faculty/student dinner at the MS&T conference in Pittsburgh, outreach activities with local professional societies and social events during the semester.

If you have ideas for activities or would like to chair a committee for GMS, we would love to hear from you! Best wishes for an outstanding term!

Sincerely,
Janet Gbur
GMS President

Materials Lunches: Fridays 12-1 p.m.

Continuing a tradition that began in 1967 with Professor Cooper’s and Professor Heuer’s Ceramics Group brown bag lunches, GMS and UMS will kick off the Materials Lunch Series with a joint Welcome Back BBQ to be held in the Undergraduate Student Lounge (USL - White Building, room 306) on Friday, August 31 from 12:00 p.m. to 1:00 p.m. Lunch is only $3!! Make plans to attend and get to know fellow materials students, staff, and faculty.

A signup sheet is posted on the USL door for individual students, groups of students, research groups, postdocs, or staff to host a luncheon. Have fun with the lunches, theme them, have a cook off, share home recipes...let’s make this the best year in Materials Lunch history!

Materials Lunch...The early years!
DMSE Boat Cruise

Continuing another department tradition, students, faculty and staff will meet for a Happy Hour Cruise on the Goodtime III...Don't miss this exciting event!

Don't forget to R.S.V.P to Patsy Harris, Assistant to the Chairman, (pah7@case.edu) for the Goodtime III Happy Hour Cruise for DMSE!!

Our annual boat ride is a fantastic way to close out summer and kick off the fall term! Meet new department members, students, faculty and staff.

Everyone will meet in the USL at 4:00 p.m. and will plan to leave campus by 4:30 p.m. (car pooling) and arrive at the dock around 5:00 or 5:15 p.m. The Cleveland Browns have a pre-season game that evening, so if you will be meeting us at the dock, plan for increased traffic across town. Boarding time is 5:30 p.m. and sailing time is 6:00 p.m. until 8:00 p.m. Adults only on this Rush Hour Cruise. The cost will be around $13 per person - special thanks to Captain Rick Fryan for arranging a discount. If you are interested in going, email Patsy by Thursday night.

GOODTIME III
825 EAST NINTH STREET PIER
NORTH COAST HARBOR
CLEVELAND, OH 44114-1017
216-861-5110
WWW.GOODTIMEIII.COM

DON'T MISS THE BOAT!!!
Friday, August 24, 2012
$13.00 per person (21 and older)
Meet at USL: 4:00 p.m.
Boarding: 5:30 p.m.
Cruise Time: 6:00 - 8:00 p.m.
Entertainment: DJ Rich D

Happy Hour Drink Prices
Contests ~ Prizes ~ Fun!

Happy Hour:
Fridays in USL at 5:00 p.m.

Please join us for our weekly happy hours, sponsored by a different professor or research center, weekly throughout the term. This is a great way to unwind, meet other faculty, staff and graduate students! Beverages and light snacks are provided.

Fall Happy Hour Schedule:
8/31   Professor Cawley
9/7     Professor De Guire
9/14   Professor Schwam
9/21   Professor Lewandowski
9/28   Professor Pirouz
10/5   Professor Welsch
10/12  No Happy Hour, MS&T
10/19  Professor Matthiesen
10/26  Professor French
11/2   Professor Heuer
11/9   Professor Ernst
11/16  SCSAM
11/23  Thanksgiving Holiday
11/30  MORE Center
12/7    TBD

How to...Purchases
A reminder for those who will be filling out purchase requests:
Obtain appropriate form (http://engineering.case.edu/emac/sites/engineering.case.edu/emac/files/purchase_request_form.pdf), attach any required documentation and secure your PI's signature. The documents are processed in one of two ways depending on the type of SpeedType account.
If the account is designated RES, that is a research account and the forms can be forwarded to either Jennifer Pyles or Deborah Scott in White 408.
If the account is a TRN, OPR, or OSA please email the forms to Rochelle Stevens.
Please remember that it can take 3-5 business days to process the request.

GSS BBQ
The Graduate Student Senate (GSS) will be hosting a Welcome Back Barbeque and Information Fair with free food and drinks for all graduate students on Thursday, September 13 on the Case Quad from 3:30-6:00 p.m.

Web Pages
All DMSE graduate students are listed on the department web site along with a current photo, advisor and contact information. When submitting photos, please verify that the pixel size is 150x180.
New graduate students or any returning graduate students who would like to update their listing, please email the above information to GMS Treasurer, Mohsen Seifi, at mxs896@case.edu no later than September 14.

Graduate Materials Society Officers
Please feel free to contact any of the GMS officers if you have questions about GMS activities or would like to serve on a committee. If you have ideas for newsletter articles, please contact….

President: Janet Gbur (Newsletters and liaison to department)
Vice President: Henry Neilson (UMS liaison and professional outreach activities)
Treasurer: Mohsen Seifi (Reimbursements for Materials Lunches, web and fundraising)
Secretary: Maryam Zahiri (Correspondence, Materials Lunch and Happy Hour schedules)
Senator: Danqi Wang (Graduate Student Senate activities)
Advisor: Professor De Guire
Material Advantage Membership Challenge

Material Advantage has set a membership challenge for all undergraduate/graduate chapters for the fall term.

The Membership Challenge is a recruitment contest between student chapters and is intended to challenge student members to recruit new Material Advantage Student Members. Contest winners receive recognition and prizes for the most creative strategies and the highest increase in chapter membership. All chapters increasing their membership during the Fall Membership Challenge will be recognized in society publications and at conferences. Additional information and previous winners can be found by visiting http://materialadvantage.org/membership/membership-challenges/

So what do you get for $30? The benefits of student membership are enormous!! First, you become a member of four prestigious professional societies: ASM International - The Materials Information Society, AIST - Association for Iron & Steel Technology, TMS - The Minerals, Metals and Materials Society, and ACerS - The American Ceramic Society. In addition, you receive monthly publications in rotation (The American Ceramic Society’s Bulletin, Iron & Steel Technology, Advanced Materials & Processes® - including ASM News and JOM) discounted attendance fees for meetings, access to several technical libraries, and much more. Our CWRU chapter could receive $500 if we win the new membership challenge, so make sure to sign up before October 31st.

The Material Advantage informational brochure and student membership application are included with this newsletter. Completed applications can be submitted to the GMS Treasurer, Mohsen Seifi or submitted online.

Please help us meet our membership goal and more importantly take advantage of this outstanding offer to join these professional societies.

Graduate Program Information

One of the more important resources that new graduate students (and current students) should become familiar with is The School of Graduate Studies (SGS) web site: http://gradstudies.case.edu/

There are links to commonly used forms, calendars (watch for important filing deadlines for thesis/dissertation defense and graduation) and information on how to develop the Planned Program of Study.

Additionally, there are opportunities for professional development support through The School of Graduate Studies and the Graduate Student Senate. Applications are available on the website to apply for funding to aid in costs associated with presenting at professional conferences.

http://gradstudies.case.edu/new/profdev.html

Welcome New Students

Anna Agaponova
Moscow Institute of Fine Chemical Technology
Jessica Booth
Worcester Poly Institute
Matt Dahar
University of Pittsburgh
Heather Lemire
Case Western Reserve University
Yingfang Ma
Tianjin University
Henry Neilson
Rice University

GMS Fall Social Activity Options

The Graduate Materials Society is in the process of planning a few social activities for the fall term. The officers would like your input in order to plan fun, well-attended events for the DMSE graduate students. At the close of the departmental meeting and through email, the officers will take suggestions on which activities students would mostly likely want to support.

Some suggestions: Cleveland Indians game; Trivia Night; corn maze/haunted house; Race for the Cure or another 5K walk/run; Playhouse Square - play/musical; Cleveland Metroparks Zoo; Night Out - Ohio City, downtown, Legacy Village, Geneva on the Lake….
Materials are the building blocks of our world. If you want to pursue a career in materials science and engineering, use the right materials to build your future — the many benefits of membership in the Material Advantage Student Program.

Take advantage of these great benefits:

- Networking through your local Material Advantage student chapter
- Society journals to expand your knowledge
- Reduced conference registration fees and student publication prices
- Career placement services and the Forum on Careers in Materials Science & Engineering
- Prizes and recognition through student competitions
- Scholarships and grants totaling more than $600,000
- Regional and national conferences and events to meet future employers and colleagues

Qualifications: A student in good standing at a post-secondary, degree-granting school may become a Material Advantage student member upon application and payment of dues.

Membership Year: The Material Advantage student membership year begins January 1 and ends December 31. New member dues are based on the following schedule:

- Applications submitted January - July, $30 for current calendar year
- Applications submitted August - December, $30 for remainder of current calendar year and the entire following year; subscriptions to commence at the beginning of the following year.

In succeeding years, all student members will be billed for membership dues in September for the following year. Note: Two weeks are required for processing of complete applications submitted with payment. Allow six to eight weeks for subscriptions to begin.

Upon Graduation: Recognizing the financial demands on young engineers, ACerS, AIST, ASM and TMS have established special incentives for the first year of individual professional membership following graduation. You will be notified prior to your anticipated graduation date that your Material Advantage student membership is about to expire, and provided with information on continuing your membership with ACerS, AIST, ASM and TMS. Please note that Material Advantage membership is not available following graduation and that completion and submission of separate applications will be required to continue all professional memberships.

Complete application and submit with payment to:

Material Advantage Student Program
184 Thorn Hill Road
Warrendale, PA 15086-7514 USA
Mr.  Ms. Name _______________________________________________________________________________________________________
last                                                           first                                                      middle initial
Name of School (required) _________________________________________________________________________________
Send Mail to:  School       Home
School Address:
Street _____________________________ Apartment # _____________________________
City _____________________________ State ____________ Postal Code _____________________________
Telephone _____________________________ Fax _____________________________
Country _____________________________
E-mail _____________________________
Home (Permanent) Address:
Street _____________________________ Apartment # _____________________________
City _____________________________ State ____________ Postal Code _____________________________
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Country _____________________________ Birth Date (Month/Day/Year) required for login _____________________________
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Material Advantage Student Membership Dues: $30
The Material Advantage student membership year begins January 1 and ends December 31.

Applications received January 1 through July 31 are processed for the current calendar year.
Applications received after August 1 are processed for the remainder of the current calendar year and the entire following year.
Membership benefits are active upon processing; subscriptions are active January through December of the following year.

Two weeks are required for processing of complete applications submitted with full payment.
Allow six to eight weeks for subscriptions to begin.

☐ Check enclosed in U.S. dollars payable to “The Minerals, Metals & Materials Society”
☐ Bill my credit card: (check one)
   ■ Visa       ■ MasterCard       ■ American Express        ■ Diners Club

Credit Card # ___________________________________________ Expiration Date _____________________________
Cardholder’s Name __________________________________________


Signature (required): __________________________________________ Date: __________________________________________

FOR OFFICE USE ONLY

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Rev.7/12
WHAT IS MATERIAL ADVANTAGE?

Material Advantage is a student program specifically created for undergraduate and graduate students enrolled in materials science, engineering and other technical engineering programs at universities around the world.

The $25 membership fee provides a single low-cost membership, giving full membership access to four materials science and engineering professional societies:

- The American Ceramic Society (ACerS)
- Association for Iron & Steel Technology (AIST)
- ASM International® (ASM)
- The Minerals, Metals and Materials Society (TMS)

The value of Material Advantage is in the opportunities for your personal development and the long-term benefits of building your career foundation right now.

Once you've become a Material Advantage member, you'll quickly see that it's the doorway to a fulfilling career in materials science and engineering!

WHO RUNS THE MATERIAL ADVANTAGE PROGRAM?

The Material Advantage program combines the individual benefits of each society into one great advantage for students. The Material Advantage Committee (MAC), comprised of four volunteer members from each partner organization, oversees this program. Each partner has a staff member assigned to the Material Advantage team who carries out the day-to-day administration:

- ACerS organizes contests, conducts special programs and maintains the Material Advantage website at MaterialAdvantage.org.
- AIST provides the e-newsletter and marketing services to promote the Material Advantage program.
- ASM provides Material Advantage chapter administration.
- TMS provides Material Advantage membership services.

WHAT IS MS&T?

MS&T is a large materials conference and exhibition organized by the four partner organizations of Material Advantage. MS&T is held in the fall of each year; exposes students to a large number of networking, learning and fun advantages; and offers these special student activities:

- The Chapter Leadership Workshop for chapter officers
- Information sessions on graduate school, the art of networking and a career forum
- Contests
- Student networking mixer
- Travel grants

Visit MaterialAdvantage.org.
Give Your FUTURE The Real ADVANTAGE!

BECOME A MEMBER OF MATERIAL ADVANTAGE

Through your Material Advantage membership, you will:

• Stay up to date on society activities, including scholarships, conferences, workshops, publications and contests.
• Get a much-needed edge in the global job market: the knowledge, experience and networking you need to begin your career successfully.
• Learn and sharpen the skills you need to become a successful engineering professional and a future leader.
• Receive free online access to technical papers from the partner organizations.

WHAT OPPORTUNITIES DOES MATERIAL ADVANTAGE OFFER?

Networking
• Attend the Material Science & Technology Conference and Exhibition (MS&T) conference each year. MS&T brings together scientists, engineers, students, suppliers and others to discuss current research and applications, and to shape the future of materials science and technology. This is the premier event that allows you to make the contacts you need for your career.
• Attend individual conferences and meetings held by ACerS, AIST, ASM and TMS, and take advantage of all the networking opportunities provided. Meet professionals who can help in your studies and your career.
• Meet fellow students by starting or joining the Material Advantage chapter at your school.

Information resources
• Members will receive three issues of each of the four partners’ major publications, mailed on a rotating schedule: American Ceramic Society Bulletin, Iron & Steel Technology, Advanced Materials & Processes® (including ASM News) and JOM.
• Convenient access to every issue of all four partners’ publications online.
• Keep up to date through the Material Advantage Newsletter! Emailed to all student members six times per year, this electronic newsletter provides information on current and upcoming programs, society events, and achievements of faculty and students.
• Keep up to date with activities of each partner organization through monthly communication.
• Online access to many of the partners’ publications, libraries, technical papers and reference sources.
• Receive special discounts and offers from each partner on many technical books and journals.
• Connect with individual members for ideas and answers through member directories from each partner organization. Search by name, geographic location, chapter location, technical interest and more.
• Receive unlimited, free use of Linda Hall Library, the largest technical library in the world.

Financial
Through the Material Advantage program, there are many financial opportunities to help students fund their education expenses and networking experiences.
• Material Advantage is a single stop for more than $600,000 in scholarships and grants every year through the partners and their foundations.
• Student members are offered large discounts on conference registration fees.
• Apply for travel grants and session monitor positions offered at conferences held by ACerS, AIST, ASM and TMS.
• Compete in Material Advantage contests and partner contests held at various conferences, for visibility and awards.

Future opportunities
• Upon graduation, take advantage of one year of free membership offered by each society: ACerS, AIST, ASM and TMS.
• Looking for an internship or that first job after graduation? Internship and employment opportunity websites are offered by each partner organization.

WHAT DOES A MATERIAL ADVANTAGE CHAPTER DO?

Get involved in or start a Material Advantage chapter at your university to meet other engineering students and professionals. It’s a great way to make new friends and start forming a network of contacts that can help throughout your career. There are Material Advantage chapters at more than 80 top schools of materials science and engineering throughout the world.

Every newly created Material Advantage chapter receives a one-time start-up payment of $150. Then, every year, active Material Advantage chapters receive a $5 rebate for each active chapter member. This rebate enables chapters to get involved in more activities and develop stronger technical programs.

Chapters can achieve special recognition through two annual programs:
1. Chapters of Excellence Awards
2. Membership Challenge

Visit MaterialAdvantage.org for more information on how to start a chapter at your school.

Free membership for faculty advisors
Faculty advisors receive a free year of membership in ACerS, AIST, ASM and TMS!