

2013-2014

Material Advantage Student Chapter Handbook

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ACerS, AIST, ASM International and TMS Student Program

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ACerS, AIST, ASM International, and TMS Student Program

HISTORY

A student membership in ASM International (hereafter ASM) and The Minerals, Metals & Materials Society (hereafter TMS) was established by action on both organizations in 1962. No record of the original Student Member Agreement can be located at ASM or TMS Headquarters. A new agreement was drafted in 1986 for the purpose of outlining organizational responsibilities of ASM and TMS to the Student Membership Program. The establishment of ASM and TMS Student Chapters was approved in principle by the ASM Board of Trustees at its March 1987 meeting and by the TMS Board of Directors at its January 1988 meeting. In 2004, a resolution by The American Ceramics Society (hereafter ACerS) Board brought the third Society into the ACerS/ASM/TMS Student Program. In June 2005, a resolution by the Association for Iron and Steel Technology (hereafter AIST) brought the fourth organization into the ACerS/AIST/ASM/TMS Student Program (hereafter referred to as the Material Advantage Student Program).

As part of this action, requirements for chartering and operation of Student Chapters were also established and subsequently agreed to by ACerS, AIST, ASM and TMS (hereafter referred to as the Partnering Societies).

ACerS MISSION

The American Ceramic Society is a global leader among professional organizations in supporting scientific research, emerging technologies, and current applications, in which ceramic materials are a key element.

AIST MISSION

The mission of the Association for Iron & Steel Technology is to advance the technical development, production, processing and application of iron and steel. Our principles are to provide:

- Value for members and benefit to industry
- Opportunity and access for all members
- Member-identified, quality programming
- Universal industry appeal

The mission of the AIST Foundation is to ensure the iron and steel industry of tomorrow will have a sufficient number of qualified professionals.

ASM INTERNATIONAL MISSION

ASM International is a Society whose mission is to gather, process and disseminate technical information. ASM fosters the understanding and application of engineered materials and their research, design, reliable manufacture, use and economic and social benefits. This is accomplished via a unique global information-sharing network of interaction among members in forums and meetings, education programs, and through publications and electronic media.

TMS MISSION

The mission of TMS is to promote the global science and engineering professions concerned with minerals, metals and materials.

In support of this mission we will

- ◆ Provide forums and other opportunities for: 1) The exchange of information among all segments of our community; and 2) Networking and making contacts vital to members' interests
- Provide state-of-the-art means for disseminating information pertinent to the community
- Promote technology transfer and, thereby, the economic health of our industries
- Provide means for the professional development and career maintenance of members
- ◆ Assume a leadership role in the minerals, metals and materials community by promoting collaboration and alliances among minerals, metals and materials societies and organizations in order to strengthen the technological basis of the profession and our members
- Participate in the development of students for entry into the minerals, metals and materials professions
- Represent the minerals, metals and materials professions in the accreditation of education programs and in the registration of professional engineers
- Encourage professionalism, ethical behavior, and concern for the environment

ACerS, AIST, ASM International and TMS Student Program

STUDENT MEMBER & CHAPTER BENEFITS

FINANCIAL OPPORTUNITIES:

- ◆ Nearly \$600,000.00 in individual scholarships available through societies, chapters and Foundations
- ◆ Student chapter travel grants/scholarships
- ◆ Membership rebates to student chapters
- ◆ Free or highly reduced conference registration fees
- ◆ Paid room monitor/paging positions at society meetings to help defray the costs of attending

CAREER RESOURCES:

- ◆ Career information services including Career Resource Center
- ◆ Résumé Link—a résumé referral system, free of charge
- Position-wanted ads, placements online and in magazines
- ◆ Available internships, co-ops and graduate research positions through the online bulletin board

DEVELOPMENT OPPORTUNITIES:

- ◆ Annual Chapter Leadership Workshop
- ◆ Eligibility for student competitions such as Student Paper Contests, Design Contests and Chapter Competitions
- Student chapter programs and outreach activities
- Professional development opportunities
- Networking opportunities meet future employers and colleagues through regional and national conferences and events
- ◆ Access to professional chapters/sections in local area
- Access to/add-on memberships of affiliate societies/technical organizations
- Chapter articles published in partner journals

INFORMATION RESOURCES:

- ◆ Rotating subscriptions to *The American Ceramic Society Bulletin, Iron & Steel Technology, Advanced Materials & Processes®* magazine (including ASM News) and *JOM*
- Monthly electronic access to all four society publications
- ◆ Free online access to the *Journal of the American Ceramic Society* and the *International Journal of Applied Ceramic Technology*
- ◆ Material Advantage e-Newsletter
- ◆ Savings on ACerS, AIST, ASM and TMS technical books and journals
- Custom searches through the ASM Library
- ◆ Access to ACerS ceramicSOURCE online and ASM Handbooks Desk Edition online
- Access to online member directories
- ◆ Access to AIST 's SteelLibrary, ASM materials library and TMS Document Ordering Center
- Unlimited, free use of Linda Hall Library, the largest technical library in the world
- Free downloads of technical papers from ACerS, AIST, and TMS

FUTURE OPPORTUNITIES:

- ◆ Upon graduation, one year free membership in ACerS, AIST, ASM and TMS
- Choice of a free ASM reference book
- ◆ Choice of free TMS or other AIME member society book upon graduation, with advancement to the grade of professional member

ACerS, AIST, ASM International and TMS Student Program

HOW TO APPLY FOR MATERIAL ADVANTAGE STUDENT MEMBERSHIP Qualifications:

Any post secondary student currently enrolled full-time in a post-secondary institution, and majoring in the field of materials science and engineering, or a related engineering discipline, is eligible for Material Advantage Student Membership upon application and payment of dues.

Membership Year: The Material Advantage Student Membership year runs January 1 through December 31. New member dues are based on the following schedule:

- ◆ Applications submitted January 1st July 31st, \$30.00 for the current calendar year
- ◆ Applications submitted in August 1st December 31st, \$30.00 for the remainder of the 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 membership dues in October for the following year. (Note: One week required for processing of complete applications submitted with payment. Allow 6-8 weeks for subscriptions to start.)

Membership Renewal: In September/October, current student members will be sent a renewal invoice to update their membership for another year. The renewal will be effective from January—December of the following year. If a student has graduated during the current year, applications to take advantage of one free year of professional membership in ACerS, AIST, ASM, and/or TMS will be sent by the individual partner instead of the renewal invoice.

Applications: Material Advantage membership applications are available on the Material Advantage website: www.materialadvantage.org

ACerS, AIST, ASM International and TMS Student Program

STUDENT MEMBERSHIP RECRUITMENT

The recruitment of new members for the chapter is the responsibility of every chapter member. Some colleges and universities have well-organized events that give student organizations the opportunity to talk to new students or to publicize their activities. In other schools, it is up to the creative planning of the chapter to seek out and recruit new members.

Before creating a recruitment plan for the academic year, make sure that all members of the chapter are familiar with the many benefits of membership in Material Advantage. It will also be important to look at your own chapter and the department at your institution to identify the unique benefits of association with your group. Work with your department to identify students and different fields of study that may be interested in materials science and engineering directly or indirectly.

All chapters should plan creative, interesting activities during the Membership Challenge Program in October and March. Members who attend the fall conference/meeting activities will have opportunities to talk to other chapter leaders for innovative ideas and recruitment methods that have been successful.

Recruitment Ideas:

Member-Get-A-Member

Take advantage of the membership programs and incentives offered by the societies, or develop your own to encourage members to identify and recruit individuals who would benefit from association with the societies and the chapter.

Orientation

Contact your college or university orientation office to see if there are any opportunities to talk to incoming first year students. Chapter activities as well as society journals are important ways to learn about a field of study and/or possible careers.

Student Unions

Are there areas where the chapter can post information about upcoming events and activities? The Student Union or gathering place at your college or university may have areas to leave a supply of applications or posters about chapter activities. This is also a good location for fund-raising activities that make students aware of your group.

Campus-wide Activities

Get involved! Sometimes the best way to recruit new members for your chapter is to be involved on your campus or in your department. If you get involved with campus activities as a group, other students will become familiar with your name and your mission.

Technical Programs

Work with your local ACerS Professional Section, AIST Member Chapter, ASM Professional Chapter and/or TMS Local Section to plan technical programs that might spark interest in other students, faculty, and local professionals. This is a great way to demonstrate how association with a professional society can give one access to the most current information in the field.

Career Workshops

Ask members of the faculty as well as your local ACerS Professional Section, AIST Member Chapter, ASM Professional Chapter and/or TMS Local Section to speak to your chapter about the job market and career opportunities. Many professionals would be delighted to share personal experiences, and this is a good opportunity to highlight the strong networking and support available through professional associations.

Technology

If you have access to e-mail and/or the Internet, use the technology! Many chapters have developed websites, and this is a wonderful way to show off the chapter's accomplishments and members. Use e-mail to target students on your campus and to share the benefits of membership.

More Recruitment Ideas:

There are a lot of ways to recruit more student members for your chapter. One of the most effective recruiting techniques is to be sincere and explain why <u>you</u> are a Material Advantage student member. Whether you enjoy the chapter meetings and activities, discounts on books and conferences, the member journals, or the free resume listing service, let potential members know what student membership can do for them!

Personal Contact

- ◆ Look for other students in your classes who are not members of Material Advantage. Explain the benefits of student membership and what it can do for them.
- Establish a program for upperclassmen to recruit freshmen and sophomores.
- ◆ A personal phone call is a great way to contact students!
- ◆ Arrange to make a brief appearance at a seminar class for engineers.
- ◆ Get your local ACerS, AIST, ASM and TMS professional members involved with contacting students exploring MSE.
- Work with your department to help recruit to the department as well as to the chapter.

Mail

- ◆ Obtain a list of students in similar engineering majors from your faculty advisor or registrar's office. Determine which students are not members and send them a personal e-mail inviting them to the next chapter meeting.
- Send a personal e-mail message to all students in the College of Engineering.

Speaker Series

- ◆ Bring in a speaker to present an interesting topic. Have membership applications on hand for potential members. The speaker could be a faculty member, a grad student with an interesting research project or a professional in the area.
- ◆ Arrange for a local professional chapter to speak on the engineering job market and how to obtain an entry-level position.
- Find topics of interest for both graduate and undergraduate students!

Chapter Events

- ◆ Schedule a field trip or plant visit with a local company. This will often bring in large numbers of members who may or may not be current members.
- ◆ Have a social function at the beginning of each semester. Present the benefits of student membership to potential members.
- As a chapter, think about the unique, specific benefits of membership in your particular chapter.
- Ask each chapter member to bring one friend, who is not a member, to an event.
- ◆ Look at ways to partner with other technical/engineering societies on your campus for joint events. Let both societies talk about opportunities in their organization.
- ◆ Find activities that make your chapter visible on your campus—campus wide events, community service, MSE t-shirts.

We'd love for you to share your recruitment ideas with other chapters! Please send your chapter's best practices to students@asminternational.org

ACerS, AIST, ASM International and TMS Student Program

STUDENT CHAPTER ELIGIBILITY REQUIREMENTS

Material Advantage student chapters are formed at colleges and universities upon petition and approval of a student chapter charter initiated by student members or faculty. All students and faculty at colleges and universities are eligible to petition for establishment of a Material Advantage student chapter. The Board of Directors of ACerS, the Board of Directors of AIST, the Board of Trustees of ASM International and the Board of Directors of TMS review petitions at their annual meetings and/or other scheduled meetings. Notification of approval is forwarded to the chapter upon the Boards decision.

STUDENT CHAPTER STATUS AND EXPECTATIONS

The Material Advantage student chapter status will be assessed each summer after receipt of the Annual Report and officer list, and prior to the start of the next academic year.

Active Status

An active student chapter meets the following five criteria:

- ◆ Holds a Student Chapter Charter;
- ◆ Has a Faculty Advisor who holds a current membership in ACerS, AIST, ASM and TMS;
- ◆ Has Chapter Officers elected annually;
- ◆ Submits an Annual Report to the Material Advantage Student Chapter Program **no later than June 1** of the current year; and
- ◆ Has a minimum of 10 student members in the chapter as of the Annual Report OR has submitted acknowledgment that the chapter is otherwise active.

Inactive Status

A chapter meeting the criteria listed below will be considered inactive until further notice. These chapters are **not** eligible for student chapter rebates, travel grants, or participation in chapter contests. Students at these schools will be assigned a "no chapter" code for membership, and may request to become active in the local ACerS professional section, AIST member chapters, ASM professional chapter and/or the TMS local section. Inactive chapters do not receive regular chapter mailings. An inactive chapter:

- ◆ Has not submit an annual report within one year of the last deadline.
- Does not expect to become active in the near future.

If an inactive chapter wishes to become active, the faculty advisor or department chair must submit a written request to the Material Advantage Chapter Program to reactivate the chapter charter. A copy of the chapter Bylaws, a minimum of 15 student member signatures, and the chapter officer listing must also be attached to the request.

NOTE: Only Chapters with an "Active" status are eligible for Student Chapter Travel Reimbursement funds.

STUDENT CHAPTER BENEFITS AND OPPORTUNITIES

Material Advantage student chapter benefits and services for active chapters include but are not limited to the following:

- ◆ Participation in the Chapters of Excellence and Membership Challenge Programs
- Regular Material Advantage mailings to update faculty and students of individual, Material Advantage, and cooperative organization activities; including upcoming conferences, workshops, publications and student contests
- Assistance from ACerS, AIST, ASM and TMS staff in generating chapter activity and participation
- ◆ Active Material Advantage student chapters will receive financial support through rebates based upon the number of affiliated student members

Current Material Advantage student chapter benefits and opportunities offered by ACerS, AIST, ASM and TMS include:

- ◆ A chapter rebate—\$5 per active student members who have RENEWED their membership by December 31st—is sent to qualifying active chapters annually (January).
- ◆ \$500 travel allowances from ASM to send student members to attend ASM meetings.
- \$500 travel allowances from AIST to send student members to attend AIST conferences and meetings.
- ◆ Up to \$500 travel allowances from TMS to send student members to attend TMS meetings.
- ◆ The Chapters of Excellence Contest recognizes chapters who excel in all areas of chapter management and operation.
- ◆ Membership Challenge Program incentives, which include chapter recognition and cash awards.
- ◆ Faculty Advisors receive a *free year of membership* from ACerS, AIST, ASM and TMS if the chapter submits the Annual Report by the June 1 deadline.
- ◆ Faculty Advisors receive the ASM "Chapter Nexus Newsletter" and the TMS "Professional Preface" throughout the school year.

For detailed information on student chapters, please refer to the website: www.materialadvantage.org

MATERIAL ADVANTAGE ACerS, AIST, ASM International and TMS Student Program

HOW TO START A NEW STUDENT CHAPTER

All students and faculty at colleges and universities are eligible to petition for establishment of a Material Advantage student chapter. If a group of student members wishes to form a Material Advantage student chapter at a college or university, they should take the following steps:

- 1. Seek the support of a Faculty Member who is an ACerS, AIST, ASM and/or TMS member and who will agree to act as the student chapter Faculty Advisor.
- 2. Meet to discuss the reasons to form a student chapter.
- 3. Elect a charter executive committee consisting of a:
 - ◆ Chapter Chair
 - ◆ Chapter Vice-Chair
 - ◆ Chapter Treasurer
 - ◆ Chapter Secretary
- 4. Create the chapter bylaws using the recommended format outlined in the Material Advantage Student Chapter Handbook.
- 5. Complete and submit the following documents, which are available on the website, to the Material Advantage Student Chapter Program:
 - ◆ Material Advantage Chapter Charter Application
 - New Material Advantage Chapter Petition Form (With a minimum of 15 student member signatures)
 - ◆ Chapter Bylaws
 - ◆ Chapter Officer Listing

The submitted materials will be forwarded to the ACerS, AIST, ASM and TMS Boards for approval at their next Board Meetings. Upon approval by all Boards, the Material Advantage Student Chapter Charter will be issued, and a start-up allowance check in the amount of \$150 will be forwarded to the Faculty Advisor on behalf of the chapter. A new Material Advantage Student Chapter will also receive a Material Advantage charter and banner for display.

For detailed information on how to start a new student chapter, please refer to the website: www.materialadvantage.org

ACerS, AIST, ASM International and TMS Student Program

HOW TO BECOME A MATERIAL ADVANTAGE CHAPTER

If your chapter is currently an ACerS-Only, AIST-Only, ASM-Only or Joint ASM/TMS chapter, you must meet the following criteria and take the following steps to be considered for a Material Advantage Student Chapter Charter:

- 1. Chapter must be at a college or university.
- 2. Student chapter must be considered active. (See "Material Advantage Chapter Expectations")
- 3. Create chapter bylaws using the recommended format outlined in the Student Chapter Handbook.
- 4. Complete and submit the following documents, which are available on the website, to the Material Advantage Student Chapter Program Office:
 - ◆ Individual/Joint Student Chapter -to-Material Advantage Chapter Petition Form
 - ◆ Material Advantage Chapter Bylaws

The submitted materials will be forwarded to the ACerS, AIST, ASM and TMS Boards for approval at their next Board Meetings. Upon approval of all Boards, a new Material Advantage Student Chapter Charter will be forwarded to the Faculty Advisor.

For detailed information on how to convert to a Material Advantage student chapter, please refer to the website: www.materialadvantage.org

ACerS, AIST, ASM International and TMS Student Program

Material Advantage Student Chapter Sample Bylaws

A sample format for Chapter Bylaws follows. Before a Student Chapter Charter is granted, a chapter must submit a set of Bylaws that will govern the Chapter. The Student Chapter should write the Bylaws to meet the needs of its particular membership and chapter structure. Each year the Bylaws should be reviewed, and revised if necessary. If revisions are necessary, the approved Bylaws must be sent to the Material Advantage Student Chapter Program to be included in the permanent chapter files.

Section I: Name

- Article 1. The name of this student chapter shall be "_______" Material Advantage Student Chapter of the American Ceramic Society, the Association for Iron and Steel Technology, ASM International and The Minerals, Metals & Materials Society.
- Article 2. This Chapter shall be chartered by the Board of Directors of the American Ceramic Society (herein after ACerS), the Board of Directors of the Association of Iron and Steel Technology (herein after called AIST), the Board of Trustees of ASM International (herein after called ASM) and the Board of Directors of The Minerals, Metals & Materials Society (herein after called TMS).
- Article 3. This Chapter shall be governed at all times by the provisions of The Constitution of ACerS, the Bylaws of AIST, the Constitution and the Rules for the Government of ASM and the Bylaws of TMS.

Section II: Purpose

Article 1. The purpose of this Chapter shall be to promote among its members a self-sought increasing knowledge of metallurgy, ceramics, materials science and engineering and all its branches and to instill a professional pride in their chosen life work.

Section III: Membership

- Article 1. Any post secondary student currently enrolled full-time in a post secondary institution shall be eligible for student membership.
- Article 2. A student member shall remain eligible for this class of membership until his/her principal occupation ceases to be that of a student or he/she no longer pays annual dues.
- Article 3. A student member enrolled at this institution shall be assigned to this student chapter unless he/she requests a different chapter or this chapter becomes inactive.

Section IV: Dues

- Article 1. The fee for Material Advantage student membership is set by the ACerS Board of Directors, the AIST Board of Directors, the ASM Board of Trustees and the TMS Board of Directors. The current Material Advantage student membership fee can be determined by obtaining a current Material Advantage student membership application.
- Article 2. The annual fee shall accompany any application for Material Advantage student membership.
- Article 3. The Material Advantage student membership year runs on the calendar year from January 1 to December 31.

Section V: Officers

- Article 1. The officers of this student chapter shall consist of a Chair, Vice Chair, Secretary and a Treasurer.
- Article 2. This Student Chapter shall elect, by majority vote of the chapter members present, a Chair, Vice Chair, Secretary, and Treasurer in the spring of each year to serve during the following academic year.
- Article 3. To be eligible for election, the nominee must be a Material Advantage student member or must have applied for such membership and must have been a member of a Student Chapter during the previous school term.
- Article 4. If the office of Chair becomes vacant for any reason during the elected term, the Vice Chair shall become Chair for the remainder of the term, thereby creating a vacancy as Vice Chair. Vacancies in any elected office other than that of Chair shall be filled by a simple majority vote at a regularly scheduled chapter meeting.
- Article 5. At the annual election, there shall be chosen, from the faculty, a member of ACerS, AIST, ASM and/or TMS who shall act as Faculty Advisor to advise and counsel the officers.

Section VI: Duties of the Officers

- Article 1. The Chair of this Student Chapter shall preside at all meetings.
- Article 2. The Chair shall assume all executive duties not otherwise delegated to others by these bylaws.
- Article 3. The Vice Chair shall preside at chapter meetings or events in the absence of the Chair.
- Article 4. The Secretary shall keep records of each meeting for the permanent chapter records. The Secretary shall also be responsible for submitting brief reports of all activities for publication by ACerS, AIST, ASM and TMS.
- Article 5. The Secretary shall forward an Annual Report, prepared by the Executive Committee, to ASM Headquarters before June 1 of each year, summarizing the activities of the Chapter during the preceding year and listing the newly elected officers for the following year.
- Article 6. The Treasurer shall submit a Financial Report to the Chapter Executive Committee giving a complete accounting of the Chapter's finances. This report shall be appended to the Annual Report.
- Article 7. All Chapter documents, financial reports and funds shall be left with the Faculty Advisor for any vacation period when the college or university is not in session.

Section VII: Committees

- Article 1. The officers of the Chapter, including the Faculty Advisor, shall constitute an Executive Committee charged with the responsibility of the Chapter management, programming, reporting, and activities.
- Article 2. The standing committees shall include but are not limited to the following:
 - a) Programming Committee Plans, organizes and executes the chapter technical, educational, and joint professional activities.
 - b) Membership/Outreach Committee Organizes and implements programs which promote student membership as a way to explore metallurgy, ceramics, materials science and engineering as a field of study and career path.

Section VIII: Meetings

Article 1. Regular Student Chapter meetings, held at such times and places as the Executive Committee and Faculty Advisor shall determine, shall be devoted to educational, technical, engineering, or scientific purposes. The Chair or Faculty Advisor may call a special meeting at any time.

Section IX: Amendments

Article 1. This Student Chapter may amend its Bylaws in any fashion consistent with the Constitution of ACerS, the Bylaws of AIST, the Constitution and Rules for the Government of ASM and the Bylaws of TMS. Such amendments, after adoption by two-thirds vote of the Chapter membership, shall be filed with the Material Advantage Chapter Program.

Section X: Professional Chapter Affiliation

Article 1. This Student Chapter will be affiliated with the local ACerS Section, AIST Member Chapter, ASM Professional Chapter and TMS Section assigned by the respective societies. The assigned affiliation may be changed by proposal of either the Student Chapter or the regular Chapter and is subject to approval by each.

Section XI: Dissolution of Chapter

Article 1. If for any reason this Material Advantage Student Chapter is dissolved, the Charter should be returned to the Material Advantage Chapter Program. All funds or other property remaining after payment of debts and obligations of this Student Chapter shall be transferred and divided between the four societies.

ACerS, AIST, ASM International and TMS Student Program

SUGGESTED PROGRAM CALENDAR

This sample operations calendar should be used as a guide in planning for an effective chapter year. Modification of the calendar to align with individual academic calendars is encouraged.

August

r2J Fall email to all faculty advisors and chapter chairs

September

- r2J Fall Membership Challenge Announced
- ♦ Annual "Kick-Off" Event
- ◆ Executive Committee meeting
- First monthly chapter meeting
- Students sign-up for student monitor/paging positions at fall meetings
- ◆ Plan to attend MS&T
- ◆ Plan to attend ASM Annual Meeting at MS&T
- ◆ Plan to attend ACerS Annual Meeting at MS&T
- Plan to attend student activities at MS&T

October

- ◆ Fall Membership Challenge Program
- ◆ Attend MS&T
- ◆ Executive Committee meeting

November

- ◆ Field trip/Plant tour
- ◆ Executive Committee meeting
- ◆ Monthly chapter meeting

December

- ◆ Chapter annual social event
- Registration deadline for TMS Technical Division Poster Contest
- Apply for AIST Foundation, FeMET and StEEL Scholarships (deadline March 1)

January

- ◆ Executive Committee Meeting
- Monthly chapter meeting
- ◆ Attend ACerS Electronic Materials and Applications Meeting
- ◆ Attend ACerS Advanced Ceramics & Composites Meeting
- ◆ Apply for TMS Scholarships (deadline March 15)

February

- ◆ Spring Membership Challenge Announced
- Executive Committee meeting
- ◆ Monthly chapter meeting
- Review bylaws
- ◆ Attend TMS Annual Meeting

March

Spring Membership Challenge Program

- ◆ Executive Committee meeting
- ◆ Monthly chapter meeting
- ◆ AIST Foundation, FeMET, and STEEL Scholarship Applications (due March 1)
- ◆ Register for AIST Student Presentation Contest
- ◆ TMS Scholarship Applications (due March 15)
- Nominations for election of officers

April

- r2J Spring email Annual Report Announcement to Faculty Advisors and chapter chairs
- ◆ Executive Committee meeting
- ◆ Annual business meeting
- Election of officers
- Reminder to chapter members re: Scholarship & Paper Contest entries
- Sign up for Session Monitor positions at AISTech (due April 15)

Ma

- Q, ASM Undergraduate Scholarship Applications due May 1
- Q, TMS Best Paper Contest entries due May 1
- Material Advantage Executive Committee annual award meeting
- ◆ Recognition of member contributions/achievements
- ◆ Recognition of outgoing chapter officers
- ◆ Establishment of goals for coming chapter year
- Preparation of preliminary agenda for coming year meetings/activities
- ◆ Attend AISTech
- ◆ Attend ACerS Glass & Optical Materials Meeting

June

- Q, Annual Report (due June 1)
- Q, Chapters of Excellence nominations (due June 1)

July

- Finalize coming year's program
- Make final room and speaker arrangements for September's regular chapter meeting
- Plan and make all arrangements (event place, food, etc.) for September "Kick-Off" event
- ◆ Plan chapter display for MS&T in September
- ◆ World Materials Day Contest Deadline (due July 30)
- ◆ Plan upcoming year's recruitment effort

ACerS, AIST, ASM International and TMS Student Program

CHAPTER STRUCTURE

There are many options for the structure of your student chapter. Many of the most successful chapters have an umbrella organization that encompasses several different societies. Some chapters include all students in their department as members. Still others include only a select group of students who wish to be involved in the management of the chapter. Please work with your executive committee and faculty advisor to discuss the structure that works best for your chapter. The Material Advantage partnering societies want you to work with the structure that best suits your student members and your department. Below are some ideas:

Materials "Club"

This is often an umbrella organization that includes the Material Advantage chapter as well as other materials-related societies. By sharing journals and highlighting activities, scholarships, and conferences of all of the societies, students benefit by learning about more career options and meeting more people. Some Materials Clubs have one executive board with representatives from each society, and others actually have separate executive boards but combine their activities. The biggest challenge to having a materials club organization is to make sure that you meet the requirements for each organization that you represent.

Department Chapters

Some departments strongly encourage or require their students to be members of the societies. This is an easy way to recruit; however, it is probably more important than ever in this situation to make sure that students realize the benefits of membership so that they will be involved. The advantage of department-wide chapters is that there is a strong possibility that several faculty members are involved, and the department is probably involved in supporting seminars, regular meetings and chapter activities.

General Assembly Chapters

You may find it useful to hold regular meetings and encourage anyone who is interested to come. It is important to have well-run and effective meetings so that students don't feel that they are a waste of time. Effective programming can encourage more students to get involved - increasing membership and interest. Some chapters hold a weekly luncheon meeting with a variety of topics throughout the year; others hold separate meetings for undergraduate and graduate students, and set up appropriate topics for each group.

ACerS, AIST, ASM International and TMS Student Program

RELATIONSHIPS

Contact with Partnering Society Headquarters

There are many services and benefits available to student chapters and student members that are provided through the partnering society headquarters. Two-way communication between the chapter and headquarters is essential. The Material Advantage Student Program staff will maintain communication with the Faculty Advisor, while the Student Affairs/Outreach committees of each partnering society may also contact the chapter to facilitate communication.

Responsibilities of Student Chapter

- Submit the required chapter annual report each spring; update information regularly
- Submit pictures and stories to be included in society publications and electronic newsletter
- Encourage members to attend society meetings and conferences
- ◆ Notify headquarters of any concerns or needs

Involvement with an ACerS, AIST, ASM or TMS Professional Chapter/Section

Where possible, the students should have both access to and involvement with practicing ceramics, metallurgy and materials professionals through the affiliate ACerS, AIST, ASM or TMS professional chapter/section. These professionals and their chapter provide the student chapter with examples of professional commitment and effective chapter management. This interaction also provides important opportunities to learn about potential careers in materials related fields.

Responsibilities of Student Chapter

- ◆ Involve local professional members in student chapter meetings and activities; keep the members of the local professional chapter informed of plans and activities
- ◆ Attend regular chapter meetings whenever possible
- ◆ Contact the local chapter or section when a member or staff visit is scheduled

Department/University Support

The Department and the University are both important in the success of the student chapter. Recruitment activities for the chapter, as well as promotional opportunities, can be conducted through the department. Interaction with faculty beyond the Faculty Advisor is also recommended for additional departmental support and contacts for the student members.

Responsibilities of Student Chapter

- ♦ Communicate with Department regarding society activities, scholarships, and support
- ◆ Advise Department of the student chapter's plans and activities
- ◆ Involve faculty in chapter activities whenever possible

The Faculty Advisor

The Faculty Advisor plays a key role in ensuring the chapter's success. The chapter officers and members must work closely with the Faculty Advisor to plan its activities. The Faculty Advisor will be the primary link to the department as well as to the society headquarters.

Responsibilities of the Student Chapter

- Regular communication with partnering society headquarters to receive updated materials and information
- ◆ Invite the Faculty Advisor to all Executive Committee and chapter meetings
- Continuously recognize the Faculty Advisor for volunteering his/her time and energy toward the success of the chapter

ACerS, AIST, ASM International and TMS Student Program

CHAPTER LEADERSHIP ROLES

The Faculty Advisor

The guidance that the Faculty Advisor provides is the primary element in the establishment and continuity of the student group. The advisor understands the materials/metallurgy fields in a societal context, and recognizes the benefits of membership in a professional society. A general interest in and enthusiasm for the student's efforts, activities and attendance at planned events are important contributions that the Faculty Advisor makes throughout the chapter year. More than one faculty member may act as Faculty Advisor; however, one person should be identified as the primary contact.

Responsibilities of the Faculty Advisor

- Promote and encourage the Material Advantage Program and participation on campus
- ◆ Encourage attendance at Material Advantage Partnering Society events and meeting
- Primary contact for society headquarters
- Receives Chapter Materials for distribution to officers
- ◆ Receives Chapter Rebate to distribute to Treasurer
- ◆ Advises Chapter Officers and Committee Chairs on the formation and implementation of its goals, objectives, and programs
- Ensure that the chapter understands the roles of ACerS, AIST, ASM and TMS as professional organizations.

Executive Officers

The quality of leadership provided by the officers of the student chapter significantly influences the level of involvement and participation of both chapter members and other interested individuals in planned chapter activities. It is imperative that the officers understand the importance of their roles in setting the direction of the chapter. The officer's commitment to the chapter will be reflected in the overall success and continuity of the group. The officers of a student chapter usually consist of a Chair, Vice-Chair, Secretary and Treasurer. The last two positions may be combined (e.g., a Secretary/Treasurer) in a small chapter. Student officers should be elected prior to the submission of the chapter annual report.

Responsibilities of the Student Chapter Executive Officers

- Be fully conversant with the Rules of Government for student chapters and the chapter bylaws
- ◆ Act as the primary interface between the student chapter, the Faculty Advisor, the Department and University within which it functions, and Material Advantage partnering society liaisons
- Establish a clear set of objectives and an operating plan for the chapter year
- ◆ Take responsibility for fulfillment of the chapter's established objectives
- Train newly elected officers and hand over materials each spring

Chapter Chair

The Chair serves as the principle point of contact between the chapter and the public, the chapter its individual members and the chapter and the partnering societies. The Chair is the chief officer and leader of the chapter. The Chair is responsible for working with the Faculty Advisor and executive committee to guide the chapter and develop the organization into an effective group to meet the needs of the school, members, and the partnering societies. The ability to work with and guide fellow officers, committee chairs and committee members are the primary qualities that will ensure success as a Chapter Chair.

LEADERSHIP ROLES, Continued

Responsibilities of the Chapter Chair

- Works closely with the Faculty Advisor and ensures communication with him/her
- Presides at all meetings of the Chapter and its Executive Committee
- Is familiar with accepted parliamentary procedures
- ◆ Delegates committee responsibilities and makes committee appointments as outlined in the chapter's bylaws
- ◆ Coordinates communication with society headquarters
- ◆ Coordinates and assures chapter reporting and record keeping functions
- Appoints a nominating committee to select a slate of candidates for the following year prior to elections

Vice Chair

The Vice Chair supports the Chair and aids whenever and wherever he/she can be of assistance to the Chair. The Vice Chair also directs the Program Committee, thus managing the technical and educational activities of the chapter. The Vice Chair must be a good communicator and should be capable of leading the chapter in the absence of the Chair.

Responsibilities of the Vice Chair

- ◆ Directs the major chapter activity of the year
- ◆ Serves as Chair of the Program Committee
- ◆ Serves as an ex-officio member of all major committees
- ◆ Leads the chapter in the absence of the Chair

Secretary

The role of the Chapter Secretary has profound effect on the success of the Chapter. The Secretary may require assistance in the form of a support committee. The Secretary is responsible for all record-keeping for the chapter; documenting all decisions made at meetings as well as attendance of members and non-members for each chapter event.

Responsibilities of the Secretary

- Maintains all chapter records
- ◆ Keeps minutes for all Chapter Executive committee meetings
- ◆ Acts as an official correspondent for the chapter
- Fulfills all reporting requirements including monthly meeting and annual reports
- Submits information to society headquarters to highlight chapter activities

Treasurer

The Chapter Treasurer has the responsibility for gathering, distributing and managing the Chapter's funds. Sound chapter operations require the establishment of and adherence to realistic budgets. Each committee should be informed of funds budgeted for its activities prior to planning for the year.

Responsibilities of the Treasurer

- Receives and deposits all funds paid into the Chapter
- ◆ Disburses funds as authorized by the Executive Committee
- Prepares financial reports for chapter meetings
- ◆ Submits financial information for annual report

ACerS, AIST, ASM International and TMS Student Program

CHAPTER COMMITTEES

The strongest student chapters are those that operate in a highly efficient manner with the involvement of all members. Focused committees are an effective way to get members involved in the areas in which they have the strongest interest. How many and what types of committees are needed varies with the size and location of the chapter. The minimum committees recommended to carry on the chapter functions are: Executive, Programming, and Recruitment/Outreach.

The Executive Committee

The Executive Committee sets chapter policy and guides the many activities of the student chapter. It works closely in partnership and cooperation with partnering society headquarters, its officers and Trustees.

Committee Structure

- ◆ Chair: Chapter Chair
- ◆ Faculty Advisor(s)
- ♦ Vice Chair
- ◆ Secretary and Treasurer
- ◆ The Chairs of the chapter committees
- ◆ It may also include up to three (3) past Chairs of the chapter and additional appointees who represent the interest of the chapter membership

Responsibilities of the Executive Committee

- Sets goals for the chapter based upon the needs of the chapter members
- Plans the business meetings of the chapter
- Regularly reviews the plans and accomplishments of all working committees
- ◆ Monitors the financial results of the various chapter activities
- Appoints, redistributes and fixes the duties of non-elected officers of committees as deemed necessary

The Program Committee

Plans, organizes and executes the chapter technical, educational, and joint professional activities and programs.

Committee Structure

- Chair: Vice Chair of the chapter or Program Committee Chair appointed by the Chapter Chair
- Chapter members interested in planning, organizing and executing the chapter technical, social and professional activities

Responsibilities of the Program Committee

- ◆ Communicate regularly with local professional chapter or section
- ◆ Decide on the subjects and dates for chapter programs by soliciting suggestions from the Faculty Advisor as well as the chapter membership
- Draws up a list of preferred and alternate speakers for respective subjects
- ◆ Plans or arranges publicity for any activities
- Makes arrangements for location and necessary equipment for any chapter activities
- ◆ Acts as the hosts for any invited speakers
- ◆ Selects technical Chair for each meeting (Often this task is assumed by the individual member of the committee responsible for securing the speaker for the evening)

Committees (Cont.)

The Membership/Outreach Committee

The Membership/Outreach Committee organizes and implements programs that promote student membership as a way to explore metallurgy/materials science and engineering as a field of study and career path.

Committee Structure

- ◆ Chair: Membership Committee Chair appointed by the Chapter Chair
- Chapter members interested in recruiting new members to the student chapter and promoting materials science and engineering and related areas as a field of study

Responsibilities of the Membership/Outreach Committee

- ◆ Attracting new members
- Retaining existing members
- Promoting materials science and engineering programs and opportunities through membership
- ◆ Supporting Department/University, or affiliate ACerS, AIST, ASM or TMS professional chapters/sections outreach efforts to younger students
- ◆ Plan and conduct at least one membership drive each year
- ◆ Actively solicit new student members
- ◆ Invite, greet and welcome new and potential members to meetings
- Maintenance of a supply of membership literature and current application blanks
- ◆ Conduct a membership display at special events
- ◆ Promotion of society-wide membership activities
- ◆ Developing outreach activities to support departmental recruitment into the field

ACerS, AIST, ASM International and TMS Student Program

CHAPTER MANAGEMENT

Any meeting planned by the chapter should be well-planned and have a clear purpose. Setting an agenda, and communicating it to the participants will help in the organization of a meeting. Following are some simple steps to running an efficient meeting:

Meeting Arrangements

Responsibility for a successful meeting can be traced to effectiveness of the meeting arrangements. Although the scope of the meetings will vary from chapter to chapter, the planning normally includes the physical arrangements as well as the agenda for chapter meetings and functions.

The committee planning the meeting or event should begin its activities well before the first meeting of the chapter year. Action is required as soon as the program committee has determined the complete program and, if applicable, as soon as the executive committee has determined the meeting dates and sites.

Meeting sites should be selected to augment the program and with consideration for the convenience of the members. Confirmation for meeting place and date should be made as early as possible and in writing.

Meeting Agendas

Using an Agenda or "Order of Business" will help your meetings run more smoothly. Your members will know what to expect and you will cover all items that need to be addressed. Make sure that everyone attending a meeting understands what is to be accomplished at that meeting. You may want to attach a time limit to each area in order to keep the meeting moving through the agenda.

Suggested Order Of Business

- I. Call to Order
- II. Roll Call
- III. Minutes From Last Meeting
- IV. Officers' Reports
- V. Committee Reports
- VI. Special Business
- VII. Old Business
- VIII New Business
- IX. Announcements
- X. Adjournment

ACerS, AIST, ASM International and TMS Student Program

PROGRAMMING

Development and execution of a program of balanced meetings and events is critical to the vitality of the chapter. Establishment of chapter programs, which include a mixture of technically, and socially enhancing activities—appealing to both the student chapter members and those in their immediate community—will ensure broad participation.

Each year's programs should be laid out in advance of the beginning of the chapter year by the Executive Committee and should include: Chapter meetings, technical talks and presentations, field trips and plant tours, outreach activities, recruitment activities, and social events.

Planning

The Program Committee should start formulating its program <u>early</u>, and it is not amiss to start work before the close of the current year. Some program committees are charged with planning programs a full year ahead.

Meeting dates should be fixed early and announced to the membership. Dates should be selected to avoid conflict with religious and legal holidays, mid-terms, exams, University programs, meeting dates of neighboring chapters or other technical societies. Also, it is important to try to space the meeting dates equally. Many chapters maintain a regular meeting night from year to year. (For example, the second Tuesday of every month.)

Successful technical programming demands a clear understanding of the technical interests and preferences of chapter members, innovative advance planning, and ready access to quality speakers and information sources. See the "Society Information" section for speaker ideas and contacts.

Some Program Ideas:

Special Nights

Many chapters set aside specific meetings to recognize or honor various groups, such as Awards Night, Alumni Night, Society Trustee Night, Past Chairs' Night, etc. The chosen topic for the meeting should be an interest area of the majority of anticipated attendees.

Guest Night

Guest Night can include a broad range of activities. Social activities such as pizza parties and campus activities are popular, and these are good activities for recruiting new members and networking with other societies.

Career Night

Career Night is intended primarily for high school students and should introduce the field of Materials. The speaker must be prepared to present the fun, challenge and opportunities of a career in Materials. Contact each society for materials, scripts or other information that may be useful.

Plant Visits

Plant visits are typically among the most popular chapter programs from an attendance standpoint. Some chapters have found guided plant tours of major industries of sufficient interest. Plant tours are held instead of, or in addition to, monthly technical meetings.

Joint Meetings

By communicating frequently with the local ACerS, AIST, ASM or TMS Professional Chapter/Section, technical meetings may be jointly sponsored by both chapters. Often, local chapters bring in Trustees and other accomplished speakers, and there is no reason not to take advantage of those visits. Many chapters hold joint meetings with other societies having a common interest in a particular subject. At a joint meeting, chapter business of either society should be avoided or kept to a minimum.

ACerS, AIST, ASM International and TMS Student Program

STUDENT CHAPTER REBATES

To qualify for a student chapter rebate, a student chapter must be considered ACTIVE. This means that the chapter submitted an Annual Report (and supporting documents) for the previous chapter year by the June 1 deadline.

INACTIVE chapters will **not** receive a membership rebate.

IMPORTANT CHANGE in Annual Rebate Schedule for Material Advantage Chapters!!!

In previous years, Active Material Advantage Chapters received an annual rebate check in the form of \$5 for each active member as of September 1st. A change has been made so that this rebate will be calculated based on the number of students who have RENEWED their membership for the coming year by December 31st with the rebate checks being sent to the faculty advisor in January. This rebate enables chapters to get involved in more activities and develop stronger chapter programs. With this extension, the Fall Membership Challenge memberships your chapter has gained will be included and the chapter will have a ton of extra time to gain more members than ever which also means more money than ever!

This is a great opportunity for Chapters to retain members while earning much needed funds.

Should you have any questions regarding this change, please email: students@asminternational.org.

The rebate check will be distributed to Faculty Advisors in January each year. The chapter rebate can be used in whatever manner the chapter feels is appropriate.

STUDENT CHAPTER REBATE TABLE

Membership Classification	Annual Dues	Rebate to Chapter
Material Advantage Membership	\$30.00	\$5.00

ACerS, AIST, ASM International and TMS Student Program

COMMUNICATION

Communication Standards

Chapters should be aware of some general communication standards that exist for the program. All references to the program should use the complete title of: "Material Advantage Student Program," "Material Advantage Student Membership" or "Material Advantage Student Chapter Program." This is the acceptable format agreed upon by each society.

Following are some standard programs and titles for related activities:

- ◆ (Name of University or chapter) Material Advantage Student Chapter
- "Everything Else is Immaterial...The Material Advantage Student Chapter Program"
- "Material Advantage" (program logo)
- ◆ Material Advantage: The Student Program for Materials Science and Engineering
- ◆ The American Ceramic Society (ACerS)
- ◆ The Association for Iron & Steel Technology (AIST)
- ◆ ASM International[®] (ASM)
- ◆ The Minerals, Metals & Materials Society (TMS)

Chapters should always refer to all societies in any materials regarding their chapter. Logo samples are available for chapter use upon request.

Annual Report

The annual report must be completed before the end of the school year. The deadline for submission of the report is **June 1**. If cooperative education programs or a different schedule that affects officer elections and end of the year reporting affects a chapter, the officers are encouraged to complete the report in the Spring. The report can be found in the back of this Handbook, via the Material Advantage website and is also sent to the chapter in March via email. *If the annual report is not received by the deadline, the chapter will not be considered an ACTIVE chapter for the following year.*

Officer Listing/Officer Change Report

Please submit this with the annual report every year. This is used to update the master database so that we know where to reach you.

Journals

If you would like to promote an activity of the chapter or share chapter news, please contact students@asminternational.org with information. The information will be shared with all societies.

Meeting Notices

You may receive separate mailings regarding student monitor positions for society meetings as well as promotion of activities at each annual meeting.

Website

Chapters are encouraged to develop their own web sites to promote their activities and the field of materials science and engineering. Once a home page is developed, a chapter should contact ACerS to have a link to the Material Advantage site created. This is also a good tool for developing networking opportunities between chapters. For information about setting up home pages or access to logos and society information, see the contact page for contact information.

ACerS, AIST, ASM International and TMS Student Program

CHAPTERS OF EXCELLENCE AWARDS

The Chapters of Excellence Program rewards and recognizes student chapters for consistently good performance in areas that ACerS, AIST, ASM and TMS feel are beneficial to students and the community as a whole.

A committee of ACerS, AIST, ASM and TMS members selects the winning chapters. The selection is based upon the chapter Annual Report and supporting documents as outlined on the Chapters of Excellence criteria sheet, which is available on the website and sent to chapters in the winter mailing to Faculty Advisors.

Winning chapters are recognized at the ACerS, AIST, ASM and TMS annual meetings. The winning chapters receive a cash award as well as a mounted certificate for the chapter. Chapters will also be recognized in *Ceramic Bulletin*, *Iron & Steel Technology*, *Advanced Materials & Processes* (ASM News) and *JOM*.

Refer to the attached Chapters of Excellence document or visit www.materialadvantage.org for more details.

ACerS, AIST, ASM International and TMS Student Program

MEMBERSHIP CHALLENGE PROGRAM

The Membership Challenge Program is a recruitment contest between student chapters during the Fall. Student Chapters are challenged to find creative strategies to increase their chapter membership during the designated period of time. The contest winners receive recognition and prizes for the most creative strategies and the highest percentage increase in chapter membership.

Student chapter membership levels are recorded as of the month prior to the Membership Challenge. At the end of the month, each chapter sends in new membership applications with the Challenge cover sheet, which are sent to the chapter at the beginning of the academic year. The prizes are outlined below:

Most Creative Recruitment Strategies

- Chapter must submit new member applications with a completed Membership Challenge cover sheet postmarked no later than the Monday following the designated Membership Challenge. (See mailings each Fall for details.)
- Chapter must send in a record of the recruitment activities and programs. A description of the recruitment strategies used as well as photographs showing the chapter spirit, recruitment activities, and new members should be included.
- ◆ The chapter that implements the most creative program to recruit new members while achieving a minimum 15% increase in membership will win this contest.
- ◆ A panel of ACerS, AIST, ASM and TMS members will judge the entries.

An article recognizing the winning chapter will be published in the *Bulletin*, *Iron & Steel Technology*, *Advanced Materials & Processes* (ASM News) and *JOM*'s Professional Preface. In addition to the recognition, the chapter will receive a check for \$250.

Most Students Recruited

- ◆ Chapter must submit new member applications with a completed Challenge Cover Sheet postmarked no later than the Monday following the designated Membership Challenge. (See special mailings for details)
- Chapters will be evaluated on the percentage increase in membership from new Material Advantage student members.

The chapter with the highest percentage increase during the Membership Challenge will be recognized in the *Bulletin*, *Iron & Steel Technology*, *Advanced Materials & Processes* (ASM News) and *JOM*, and will receive a check for \$500.

Rules and Procedures

- Only new member recruits will count toward the chapter growth; renewal of existing membership will not be counted in this contest.
- ◆ Starting chapter membership size will be determined based on existing Material Advantage student membership as of October 1. Only applications submitted with the cover sheet will be included when calculating chapter growth.
- Chapters will be considered for both categories; however, the same chapter cannot win both categories.
- Photographs submitted may be published and will not be returned.

ACerS, AIST, ASM International and TMS Student Program

SCHOLARSHIPS

(For the latest scholarship information, visit the material Advantage website.)

ACerS Scholarships

The American Ceramic Society Sections, Divisions and Classes offer many student scholarships, awards and contests. Please contact the Section, Division or Class noted or visit the ACerS Scholarship page on the Material Advantage website (http://materialadvantage.org/financial-opportunities/acers-scholarships/) for additional information. Deadlines for applications vary by scholarship.

Current scholarships and awards offered:

- ACerS Basic Science Division Graduate Excellence in Materials Science (GEMS) Awards
- ACerS Electronics Division Hoffman Scholarship
- ACerS Glass Division Norbert J. Kreidl Award for Young Scholars
- ACerS Glass and Optical Materials Division Alfred R. Cooper Student Award
- ACerS Glass and Optical Materials Division Student Poster Awards
- ACerS New Mexico Section Graduate Student Research Award
- ACerS Electronics Division Best Student Presentation Awards
- ACerS New England Section Scholarship Program
- ACerS New Mexico Section Undergraduate Ceramic Achievement Award
- ACerS Pittsburgh Section J. Earl Frazier Memorial Scholarship
- ACerS Southwest Section The Forrest K. Pence Memorial Scholarship Program
- ACerS Southwest Section The Robert and Mary Buttle Scholarship Fund

AIST Foundation Scholarship Program

AIST Foundation Scholarships are awarded on an annual basis to talented and dedicated students to encourage them to pursue careers within iron and steel-related industries. Approximately \$400,000 is awarded each year through Foundation scholarships, endowment scholarships, Member Chapter scholarships, and joint scholarships and grants.

Current scholarships offered:

- AIST Ronald E. Lincoln Scholarships (2 one-year scholarships at US\$3,000)
- AIST Willy Korf Scholarships (3 one-year scholarships at US\$3,000)
- AIST Don Nelson Scholarship (1 one-year scholarship at US\$3,000)
- AIST William E. Schwabe Memorial Scholarship (1 one-year scholarship at US\$3,000)
- AIST Benjamin F. Fairless Scholarships (3 one-year scholarships at US\$2,000)
- AIST David H. Samson Canadian Scholarship (1 four-year scholarship at US\$2,000)
- AIST Smith Graduate National/International Scholarship (up to \$6,000)
- FeMET Scholarships (20 two-year plus internship scholarships at US\$5,000)
- StEEL Scholarships (20 two-year plus internship scholarships at US\$5,000)
- AISI / AIST Premier Scholarship (1 two-year plus internship scholarship at US\$10,000)

Applications are accepted beginning in December, application deadline is March 1. For more information visit the website at www.aistfoundation.org.

Questions should be directed to Lori Wharrey at 724-814-3044 or lwharrey@aist.org.

ASM Foundation Scholarship and Award Program

The ASM Scholarships support students studying metallurgy and/or materials science and engineering. Students who will be enrolled in the Fall with sophomore, junior, or senior standing at a college or university in the USA, Canada, or Mexico are eligible for these scholarships. Also eligible are students who will be enrolling in their final year of a community college degree or certificate program in the Fall. The scholarships range from \$500 awards to full-tuition.

Current scholarships and awards offered:

<u>Undergraduate Scholarships are:</u>

- Nicholas J. Grant Scholarship (Full tuition for one year)
- William Park Woodside Founder's Scholarship (Full tuition of up to \$10,000)
- The Lucille and Charles A. Wert Scholarship (Full tuition of up to \$10,000)
- George A. Roberts Scholarships (7 awards at \$6,000 each)
- Outstanding Scholarship Awards (3 awards at \$2,000 each)
- Edward J. Dulis Scholarship (1 award at \$1,500)
- John M. Haniak Scholarship (1 award at \$1,500)

Undergraduate Design Competition

- First Prize: \$2,000 + \$500 travel assistance to MS&T+ \$500 to the department for support of future design teams
- Second Prize: \$1,500 + \$500 travel assistance to MS&T
- Third Prize: \$1,000 + \$500 travel assistance to MS&T

Student Chapter Grants

• Up to 5 awards at \$800 each

Arthur E. Focke LeaderShape Awards

• 6 scholarships to attend a one-week leadership training at LeaderShape Institute

One application is used to apply for all awards. **The deadline for scholarship applications is May 1**. Information and applications are available at: www.asmfoundation.org.

TMS Scholarships

One of the benefits TMS student members enjoy is the opportunity to earn money for college through scholarships and student contests. Scholarships are awarded annually to graduate and undergraduate student members.

Current scholarships offered:

- TMS Presidential Scholarship (1 award at \$5,000)
- Electronic, Magnetic & Photonic Materials Division/Gilbert Chin Scholarship (1 award at \$2,000)
- Extraction & Processing Division Scholarship (4 awards at \$2,000)
- International Symposium on Superalloys Scholarship (2 awards at \$2,000)
- Light Metals Division Scholarship (3 awards at \$4,000)
- Structural Materials Division Scholarship (2 awards at \$2,500)
- Materials Processing and Manufacturing Division Scholarship (2 awards at \$2,500)
- TMS Best Paper Contest (Undergraduate and Graduate)
- Henry Dewitt Smith Scholarship (Graduate Award through AIME 2 awards at \$2,500)

The deadline for applications for all TMS scholarships and contests is March 15. Information and applications will be available online at http://www.tms.org/Students/AwardsPrograms/Scholarships.html. For information on these programs, contact Bryn Simpson in the Student Affairs Department of TMS at (724) 776-9000 ext. 259, or e-mail at bsimpson@tms.org.

For detailed information on the chapter awards, scholarships, student contests and competitions, please refer to the website: www.materialadvantage.org

ACerS, AIST, ASM International and TMS Student Program

THE AMERICAN CERAMIC SOCIETY INFORMATION

What is The American Ceramic Society?

The American Ceramic Society is a 115-year-old non-profit organization that serves the informational, educational and professional needs of the international ceramics community. The Society's 8,000 members comprise a wide variety of individuals and interest groups including engineers, scientists, researchers, manufacturers, plant personnel, educators, students, marketing and sales professionals, and others in related materials disciplines. ACerS is the gateway through which these diverse groups interact, exchange information, influence legislation, and develop tomorrow's technologies.

ACerS members participate and receive information through a structure of Divisions, Sections and Classes of the Society. Divisions segment the ceramic and materials field by industry category, Sections by local geographic areas, and Classes serve a specific purpose within the ceramics community.

Divisions of the Society

ACerS members participate and receive information at the national level through a structure of Society Divisions. ACerS has 10 Divisions that address all disciplines in technical ceramics:

Art, Archaeology and Conservation Science - advances the scientific understanding of the materials found in ceramic art, and provides information that aids in the interpretation, and preservation of traditional ceramic art and artifacts, as well as the techniques and technologies used in their creation.

Basic Science - focuses on the basic properties of materials.

Cements - involved with the research, development, manufacturing and sale of cements, limes and plasters.

Electronics - deals with capacitors, superconductors, electronic packages, sensors, semiconductors and other electronic devices. **Engineering Ceramics -** examines advanced ceramics such as coatings and structural ceramics that are of monolithic or composite composition.

Glass & Optical Materials - focuses on the scientific research and development, application and manufacture of all types of glass. **Nuclear & Environmental Technology -** explores applications of ceramics in nuclear energy production and medicine.

Refractory Ceramics - examines the science, production and application of ceramics for use at elevated temperatures and in other hostile environments.

Structural Clay Products - emphasizes the most efficient and economical ways to manufacture brick, pipe, red-body tile and other structural clay products.

Whitewares and Materials - concentrates on finding ways to improve the production of whiteware products and the production and processing of minerals, materials and additives used in manufacturing ceramic products.

Classes and Affiliates of the Society

ACerS has two Classes and one Affiliate that provide valuable support to the Society:

Classes of the Society

- National Institute of Ceramic Engineers (NICE): The National Institute of Ceramic Engineers (NICE) is dedicated to
 maintaining the ceramic engineering field as a distinct entity of professional engineering. Membership in this organization is
 free and is open to all engineers and scientists engaged in ceramics activity. ACerS/NICE is the lead organization
 responsible for accreditation of collegiate programs in glass and ceramic engineering through the Accreditation Board for
 Engineering and Technology (ABET). As an ACerS/NICE member, you can help shape both your own future and the future
 of engineering and could even end up being part of the accreditation process.
- 2. <u>Ceramic Education Council (CEC):</u> The Ceramic Educational Council (CEC) is an organization dedicated to stimulating, promoting and improving ceramics education and provides a national forum for discussing issues pertinent to ceramic education, curricula and institutional affairs. Its goal is to enhance interaction among those concerned with ceramic education. It also represents the Society in matters pertaining to ceramic education as specifically authorized by the Board of Directors.

Affiliate of the Society

1. <u>Keramos</u>: The Keramos National Professional Ceramic Engineering Fraternity supports the interaction between and camaraderie among ceramic engineering professionals and students. One of the main functions of Keramos is to promote and emphasize scholarship and character in the thoughts of students in ceramics, to stimulate mental development, and to promote interest in the professional aspects of ceramic engineering, technology, and science.

NICE, CEC, and Keramos have a long-running history of student activities and programs. The following are four traditional contests organized for Material Advantage Students.

- Undergraduate Student Speaking Contest
- Undergraduate Student Poster Contest
- Graduate Student Poster Contest
- Ceramic Mug Drop Contest
- Ceramic Disc Golf Contest

Meetings and Expositions

ACerS is the leading forum for knowledge exchange in ceramics and ceramic-related fields. The many meetings and symposia that ACerS sponsors range in size from 100 to 3,000 attendees and offer blends of technical sessions, expositions, and networking opportunities.

ACerS Publications

ACerS Publications are the leading world resources on ceramic science and research:

- Journal of the American Ceramic Society (in partnership with Wiley Publishing)
- International Journal of Applied Ceramic Technology (in partnership with Wiley Publishing)
- International Journal of Applied Glass Science (in partnership with Wiley Publishing)
- American Ceramic Society Bulletin/ceramicSOURCE
- Ceramic Engineering and Science Proceedings
- The Society's Book Publishing Program –more than 200 book titles

Explore these and many other benefits available to society members at www.ceramics.org.

AIST INFORMATION

On Jan. 1, 2004, the Iron & Steel Society (formed in 1974) and the Association for Iron and Steel Engineers (established in 1907) consolidated to form the Association for Iron & Steel Technology (AIST). Each predecessor organization possessed a rich historical background, but both recognized the need for a combined effort to serve the iron and steel industry. AIST was established with a goal of advancing the technical development, production, processing and application of iron and steel. The best practices of both predecessor organizations were incorporated into AIST, which is now a strong, international, member-based technical organization that can sustain itself in an environment of continual change.

Technology Divisions - AIST's 11 Technology Divisions include Technology Committees that address specific process, engineering, equipment or reliability technologies associated with the iron and steel industry. Members who serve on Operating Committees become an integral part of a vital network to solve problems and advance the state of technology within the industry. Committee activities include plant tours, conference program development, industry surveys, round table discussions and the development and maintenance of technical reports.

Member Chapters - AIST represents individual members in the iron and steel community from more than 60 countries around the world. To facilitate the exchange of ideas and strengthen our global network, AIST Member Chapters represent an integral component of the AIST program. Member Chapters offer steel industry professionals the opportunity to participate in AIST on a grassroots level. Our members meet and network with others from the local community while gaining valuable knowledge about many aspects of iron and steel production. A typical meeting includes a social hour, dinner and a technical presentation. Golf outings, plant tours, product fairs and other events may also be offered.

Expositions and Conferences – AIST's major international conferences bring together technologies from around the world, allowing steel producers and suppliers to compete in today's global marketplace. AIST will conduct is premier, full-line steel technology event, AISTech, each May. Our collaborative effort with other materials societies, MS&T, will take place each September. In addition, the various Technology Committees of AIST conduct specialty training courses that address specific needs in the practical application of engineering and steelmaking technology.

Publications – *Iron & Steel Technology* is a technical journal containing news articles for metallurgical, engineering, operating and maintenance personnel of the iron and steel and allied industries. It is the official monthly publication of AIST and the most comprehensive and widely circulated monthly technical journal available today for the steel industry. In addition, AIST publications include books and technical reports that are considered standards in the industry. Other effective communications tools available are www.SteelLibrary.com, www.SteelLinks.com and www.SteelNews.com.

Membership - AIST offers a variety of activities and events each year. AIST members receive an annual subscription to *Iron & Steel Technology*, regular regional programs within the network of more than 20 AIST Member Chapters, access to more than 30 Technology Committees, discounted registration for major event forums, including AISTech and MS&T, discounted registration for all specialty training courses, discounts on numerous publications and free access to SteelNews.com. Together, these member benefits represent one of the most powerful networking tools available for the iron and steel industry.

AIST Foundation – The AIST Foundation is Pennsylvania-based $501 \odot (3)$ nonprofit corporation organized for charitable, education and scientific purposes that seeks to attract technology-oriented professionals to the industry by educating the public about the high-tech, diverse and rewarding nature of careers in modern steelmaking. Accordingly, the Foundation will award approx. \$400,000 in college scholarships and grants annually to provide assistance to these students. The mission of the AIST Foundation is to ensure the iron and steel industry of tomorrow will have a sufficient number of qualified professionals.

Visit the AIST Web site at www.aist.org and www.aistfoundation.org.

ASM INTERNATIONAL INFORMATION

History

ASM was organized in 1913 in Detroit, Michigan, as the "Steel Treaters Club," by William Park Woodside. Chicagoans organized an "American Steel Treaters Society" in 1917, and the Detroit-Chicago groups amalgamated in 1920 as "American Society for Steel Treating." This became American Society for Metals in 1933. In 1983, the Society expanded its technical scope beyond metals alone to include other engineered materials—composites, plastics, ceramics, and electronic materials. By 1986, progress was so substantial toward the stated goal of becoming the world's society for engineered materials that the name was changed to ASM International. The Society's headquarters was in downtown Cleveland, Ohio, from 1920-1959, and has been in Materials Park, Ohio, (35 miles east of Cleveland) since. The Headquarters building is housed on 50 acres, underneath the world's largest open-faced geodesic dome. Constructed of 80 tons of extruded aluminum, the 103-foot-high dome is a dramatic tribute to modern materials technology.

Members and Chapters

ASM has more than 35,000 members worldwide who are involved throughout the engineered materials community-as engineers, managers, scientists, researchers, teachers, students, marketers, equipment manufacturers and suppliers. The Society has more than 110 professional chapters, with members in more than 85 countries. Members work primarily with metals, but also with structural polymers, ceramics and composites.

Affiliate Societies

Members may choose to affiliate with several of ASM's Affiliate Societies: The ASM Heat Treating Society (HTS), ASM Thermal Spray Society (TSS), International Metallographic Society (IMS), Electronic Device Failure Analysis Society (EDFAS), International Organization on Shape Memory and Superelastic Technologies (SMST) and Society of Carbide & Tool Engineers (SCTE). Affiliate Societies serve member needs with focused leadership, agendas and services. To affiliate with an Affiliate Society of ASM, one must first be a member of ASM International and pay annual "add-on" dues for each additional Affiliate Society membership (*except* for SCTE). EDFAS membership does not require ASM membership, but there is an add-on fee for ASM/EDFAS membership.

Member Recognition and Society Activities

Nearly 20 awards are presented yearly to individuals and organizations for their outstanding achievements in the materials industry, including the distinction of ASM Fellow, bestowed on individuals for their contributions in materials science and engineering. ASM also is dedicated to advancing the materials science and engineering profession and nurturing the engineers of tomorrow. The ASM International Foundation supports student outreach activities from kindergarten to graduate school through Materials Camps, partnership programs, scholarships and student membership.

Publications

Advanced Materials & Processes (AM&P), the monthly magazine and a key benefit of membership, focuses on the latest trends and advances of materials technology of interest to ASM members. Included within AM&P is ASM News—a monthly overview of society and member news. Publications of other ASM Affiliate Societies include the Journal of Materials Characterization and the newsletter Sliplines (International Metallographic Society), the quarterly newsletter International Thermal Spray & Surface Engineering (Thermal Spray Society), the quarterly resource Electronic Device Failure Analysis (EDFAS), and Cutting Tool Engineering (Society of Carbide & Tool Engineers). The Society also publishes the following journals: Journal of Materials Engineering and Performance, Journal of Thermal Spray Technology, and Journal of Phase Equilibria and Diffusion. The journals Metallurgical and Materials Transactions and International Materials Reviews are co-published by ASM.

ASM is also renowned as a leading technical book publisher, with more than 150 book titles in print, including the *ASM Handbook* series, the world's most comprehensive reference source on metals and engineered materials. Many ASM references are now available in electronic form—either as CD-ROM's or on-line—including the *ASM Handbook on CD-ROM*. For the latest information and free demonstrations, visit the ASM Website at www.asminternational.org.

Conferences & Expositions/Education

ASM and its Affiliate Societies sponsor or co-sponsor many leading events, including the Materials Science and Technology Conference & Exposition, the Exposition, the International Thermal Spray Conference (ITSC), the Advanced Aerospace Materials/Processes Conference & Exposition (AeroMat), and the International Symposium of Testing and Failure Analysis (ISTFA).

Members wishing to improve their technical skills and knowledge, and managers who want to bring training to their staff, benefit from the many education programs offered by the ASM Education Department. Formats include home study, seminars, video, inplant, and custom programs.

For a complete list of the Professional Chapters of ASM International, please check out the website: http://www.asminternational.org

TMS INFORMATION

TMS is the professional organization for those around the world dedicated to the science and engineering fields concerned with minerals, metals and materials.

TMS was established following the founding of the American Institute of Mining Engineers (AIME) in 1871. The Society's work encompasses the entire range of materials science and engineering, from minerals processing and primary metals production to basic research and the advanced applications of materials. TMS members number over 11,000, live in more than 70 countries on six continents, and include engineers, scientists, researchers, educators, administrators and students. 55% of TMS members hail from industry, 27% from academia and 18% from government. TMS members are active throughout the organization, from the board of directors to the technical committees.

The mission of TMS is to promote the global science and engineering professions concerned with minerals, metals and materials. In support of this mission we will:

- Provide forums and other opportunities for: 1) The exchange of information among all segments of our community; and 2) Networking and making contacts vital to members' interests.
- Provide state-of-the-art means for disseminating information pertinent to the community
- Promote technology transfer and, thereby, the economic health of our industries
- Provide means for the professional development and career maintenance of members
- Assume a leadership role in the minerals, metals and materials community by promoting collaboration and alliances among minerals, metals and materials societies and organizations in order to strengthen the technological basis of the profession and our members
- Participate in the development of students for entry into the minerals, metals and materials professions
- Represent the minerals, metals and materials professions in the accreditation of education programs and in the registration of professional engineers
- Encourage professionalism, ethical behavior, and concern for the environment...

TMS' technical focus spans a broad range: light metals; electronic, magnetic and photonic materials; extraction and processing; structural materials; and materials processing and manufacturing.

From within these technical focus areas has emerged a new mission to make a difference in the world. TMS established the Materials and Society technical community for members to analyze energy use, consider waste reduction and treatment, and explore the use of materials in alternative energy technologies.

TMS EVENTS

The Minerals, Metals & Materials Society (TMS) sponsors and co-sponsors several specialty meetings every year. In order to facilitate global technical exchange and networking, TMS convenes two annual, multidisciplinary meetings and several specialty meetings throughout the year. More than 400 technical sessions and 4,000 individual presentations are conducted annually. TMS also offers learning and networking opportunities through continuing education, publications, and the Web, www.tms.org and www.materialstechnology.org. The TMS Annual Meeting and Exhibition, held in February or March.

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CLASSES OF MEMBERSHIP

Student Membership

Material Advantage Student Member\$30.00 Individual whose primary occupation is that of a student at a college or university and who wishes to be a member of ACerS, AIST, ASM and TMS. The membership fee gives students access to the benefits offered by all four societies. The membership year runs from January through December. See the application for specific membership fee information. **Becoming A Professional Member Upon Graduation NOTE:** There is no Material Advantage membership option beyond the student level. Following graduation, separate professional memberships must be maintained. Information on professional membership options for ACerS, AIST, ASM and TMS will be mailed to students as they approach graduation. ACerSOne-year Free ACerS will recognize you as an Associate Member of the Society with full benefits for the first year after graduation at no cost. This includes free online access to the peer-reviewed Journal of the American Ceramic Society, International Journal of Applied Ceramic Technology, and International Journal of Applied Glass Science. Please see the ACerS website for further details AISTOne-year Free AIST will provide a complimentary one-year AIST Young Professional Membership following graduation. As an AIST Young Professional Member, you are eligible for all of the benefits of an AIST professional membership. Visit www.aist.org for a special application. ASM InternationalOne-year Free ASM will recognize you as a full individual member of the society for the first year after graduation at no cost. Simply complete and return the "Prepare To Succeed" application that will be sent to you via e-mail. By taking advantage of this special offer, you will be entitled to one free reference book along with all of the advantages of ASM professional membership including significant discounts on education courses, seminars, conferences, reference books and a variety of other benefits and opportunities that will help you in your career. TMSOne-vear Free TMS recognizes the financial demands on young engineers, and therefore will provide you with a complimentary full membership for one year following graduation. As an Automatic Junior Member, you are eligible for all of the same benefits as a TMS Professional Member. Please contact members@tms.org for an application.

Professional Memberships

ACerS Regular Member	\$ 120.00
Includes free online access to the Journal of the American Ceramic Society, the International Journal	
Technology, the International Journal of Applied Glass Science, print and online access to the Bulletin	0 11
ceramicSOURCE, and the online Membership Directory.	
Primary Division affiliation is included with membership. Additional Divisions are available	e for \$10.00 each.
Other ACerS Society Affiliates	
National Institute of Ceramic Engineers (NICE)	
Ceramic Educational Council (CEC)	
Keramos	\$ 10.00
AICT Duefossional Manchau	¢115
AIST Professional Member Includes paper and electronic edition of <i>Iron & Steel Technology</i>	\$115
includes paper and electronic edition of tron & steel Technology	
AIST Young Professional (age 30 or younger)	\$57.50
Young professional membership is complimentary for the first year following Material Adva	•
membership and graduation. Includes paper and electronic edition of <i>Iron & Steel Technology</i>	•
application must be completed.	5). 11•
Prince Prince	
ASM International Individual MembershipAnnual Duc	es \$ 113.00*
A person interested in receiving member benefits and supporting the purpose of ASM.	
Heat Treating SocietyASM Duc	es + \$25.00
A person interested in receiving member benefits of ASM and HTS.	
Thermal Spray SocietyASM Duc	es + \$ 30.00
A person interested in receiving member benefits of ASM and TSS.	*
International Metallographic SocietyASM Duc	es + \$ 25.00
A person interested in receiving member benefits of ASM and IMS.	Φ.Ε.Ο. Ο.Ο.
Shape Memory and Superelastic Technologies	ies + \$50.00
A person interested in receiving member benefits of ASM and IMS.	¢ 00 00
Electronic Device Failure Analysis Society	ues \$ 00.00
A person interested in receiving member benefits of EDFAS.	
TMS Professional Member	\$ 115.00
All TMS members are required to demonstrate one of the following to be an eligible candidate for prof	
membership:	
•	
a) A baccalaureate degree in metallurgy, metallurgical engineering, materials science, or material	ls engineering, and
at least 3 year's professional experience.	
b) A baccalaureate degree in science or engineering in a discipline other than identified and at lea	st 5 years'
professional experience.	
c) A baccalaureate degree from a recognized university in a discipline other than (a) or (b) and w	
lie in, but are not limited to, the development, management, administration, welfare, sales, or s	services to the
minerals, metals and materials industries, with at least 7 years' experience.	11.1
d) A credit in experience of one year for a master's degree or two years for a doctoral degree shall	ll be granted.
TMC Decent Creeds	¢ 57 50
TMS Recent Grads	
student membership and graduation. For the second and third years of Professional Membership	
graduation, the cost is \$57.50 per year.	p 10110 willig
TMS Associate Member	\$ 115 00
Candidates for Associate Membership are persons of integrity who, while not possessing the ac	
experience of a member, are active in fields that are sufficiently related to the advancement of	
minerals metals or materials extraction processing or applications industry	5. 501 1.100 to, till

minerals, metals or materials extraction, processing, or applications industry.

SOCIETY MEETINGS AND CONFERENCES

For detailed information on any of the ACerS, AIST, ASM or TMS sponsored meetings, contact the society headquarters or visit the websites for each society.

ACerS Conferences & Expositions

ACerS and its Affiliates sponsor and co-sponsor events and expositions consisting of: Electronic Materials and Applications in Orlando, FL, International Conference on Advanced Ceramics and Composites in Daytona Beach, FL, Materials Challenges in Alternative & Renewable Energy, International Conference on Ceramic Interconnect and Ceramic Microsystems Technologies, Pacific Rim Conference on Ceramic and Glass Technology, Ceramic Leadership Summit, MS&T, Glass & Optical Materials Division Spring Meeting, Structural Clay Products Division Meeting, Cements Division meeting, plus many more. Go to http://ceramics.org/meetings/event-calendar/ to see the complete meeting schedule.

AIST Conferences & Expositions

AIST's major international conferences bring together technologies from around the world, allowing steel producers and suppliers to compete in today's global marketplace. AIST will conduct its premier, full-line steel technology event, AISTech, each May. In collaboration with other materials societies, MS&T will take place each September.

ASM Conferences & Expositions

ASM and its Affiliate Societies sponsor and co-sponsor many leading events, including the Materials Science and Technology Conference & Exposition (MS&T), the ASM Heat Treating Conference & Exposition, the Materials and Processes for Medical Devices Conference, the Advanced Aerospace Materials/Processes Conference and Exposition (AeroMat), and the International Symposium of Testing & Failure Analysis (ISTFA). For a complete listing of all ASM events please visit the ASM website at www.asminternational.org.

TMS Events

TMS sponsors and co-sponsors several annual meetings as well as specialty meetings. The Annual Meeting and Exposition features nearly 2,000 technical presentations and 20,000 square feet of exhibitions which detail the latest advances and most critical developments in minerals, metals, and materials science and technology. The Physical Metallurgy and Materials program focuses on new developments in materials research and applications and is held in conjunction with MS&T.

Student Activities at Society Meetings

Each society will sponsor student activities that encourage student members to interact, have fun, learn about potential career options, network with potential employers, and learn about each society. Some student activities include:

- ◆ Career Forum
- ◆ Student/Faculty Mixer
- ◆ Student Focus Groups
- ◆ Student Monitoring Positions
- ◆ Student Speaking Contest
- ◆ Student Poster Contest
- ◆ Chapter and Individual competitions
- ◆ Other contests and competitions

SOCIETY VISITS

The programming for student chapters often relies heavily on local experts and professionals to deliver technical and informational presentations at monthly meetings. Interaction with successful materials professionals and society representatives from outside the university's local area can enrich the student chapter's program.

As a student chapter, you may wish to invite staff or members from each partnering society to visit your chapter. You may have a big event planned for which you would like some national exposure or you may want to draw upon the technical expertise of prominent members. Often staff or member visits are planned in conjunction with the local ACerS section, AIST member chapter, ASM professional chapter or TMS local section. ACerS, AIST, ASM and TMS have directories available and staff will make every attempt to help you find the right speaker for your event. Planning ahead is important in order to allow for busy schedules and travel arrangements.

ASM Staff and Trustees

Students@asminternational.org for information on the current Speaker's listing. This listing is an essential and valuable resource for chapters when they are planning their programming and lining up speakers for their technical meetings throughout the chapter year. If a Trustee or staff associate is planning a visit to a local professional chapter, the Faculty Advisor will be informed of the visit and meeting schedule. ASM Trustees or staff associates may also contact the chapter to schedule a visit. It is the responsibility of the chapter to coordinate the travel and meeting plans with any visitor.

ACerS Staff and Board Members

Student Chapters interested in scheduling a Board Member/ACerS Staff visit should contact Tricia Freshour, Membership Services Manager, at tfreshour@ceramics.org or by phone at 614-794-5827.

AIST Staff and Board Members

Student Chapters interested in scheduling a Board Member/AIST Staff visit should contact Lori Wharrey at lwharrey@aist.org at AIST.

TMS Staff and Board Members

Student Chapters interested in scheduling a Board Member/TMS Staff visit should contact Bryn Simpson (bsimpson@tms.org) at TMS for information on individual availability.

Guest/Speaker Courtesies

At the meeting be sure that the speaker and guest (if applicable) receives a badge. Introduce the speaker to the chapter officers and other members on an informal basis. Be sure to allow time for a press conference if the speaker has cleared it. Check out any special equipment that the speaker has asked for and be sure to remind the speaker of how long the talk is expected to be.

Introducing the Speaker

The introductory remarks made at the time a speaker is presented to the audience are important. Speeches of introduction need not be dull or stereotyped. A well-prepared introduction should make the audience more perceptive and appreciative of what the speaker is about to present. It should contribute to the speaker's stature in connection with the subject of the presentation by pointing out their experience or knowledge of the subject.

One way to organize your ideas in making a Speech of Introduction is to use the T-I-S formula, as follows:

- **T** stands for **TOPIC**. Speak first of the topic, giving the exact title of the talk.
- I stands for IMPORTANCE. Tell the audience why this topic is important to this particular group.
- **S** stands for **SPEAKER**. Give the audience your speaker's qualifications. As the final two or three words of your introduction, give the speaker's name; be sure to say it clearly and distinctly.

Closing the Meeting

The meeting Technical Chairman can often make the difference between a satisfying experience for the audience or not. Many meetings fail because no one bothers to formally close them. Here are a few reminders:

- ◆ The Technical Chairman should control the closing period, assisting the speaker in taking questions from the floor
- ◆ After a brief question period, which should last no more than 5 or 10 minutes, the Technical Chairman should close this period.
- ◆ If the subject is of particular interest, an area should be set-aside for members to talk one-on-one with the speaker while the arrangements person gathers the speaker's materials.
- ◆ If there is a continued part of the meeting, such as a business session, or a presentation to the speaker, etc., this should be done immediately after the formal question period, perhaps with a short break.

Following the meeting, be sure to see that the speaker is returned to the hotel or to the airport. A recognition letter within a week to both the speaker and the speaker's employer expressing the chapter's appreciation is appropriate. One courtesy which the chapter can extend depending on its budget is to present a gift or memento to the speaker at the close of the meeting. If any publicity appears in the local press, be sure to send a copy to the speaker.

MATERIAL ADVANTAGE STUDENT CHAPTER REPORTS

All report forms can be found at www.materialadvantage.org

Standard Reports

Material Advantage Chapter Annual Report

The Chapter Annual Report is an essential document for the chapter to evaluate its progress and successes, and it is also the primary documentation that the societies maintain in the permanent chapter files. The chapter will not be considered active if the report is not received. A report reminder will be sent to the chapter chair and Faculty Advisor beginning in January; a copy can also be found in this Handbook. The Annual Report must be submitted *no later than June 1*.

Material Advantage Chapter Officer List

This form *must* be submitted with the Student Chapter Annual Report. The report should show the NEW officers for the upcoming year so that the headquarters listings can be updated.

Material Advantage Chapter of Excellence Nomination

This form *must* be submitted along with the Annual Report and Officer List by June 1, **IF** the chapter wishes to be considered for one of the six Chapter of Excellence Awards.

Chapter Petition Forms

New Material Advantage Chapter Charter Application

This form is used with the Petition Form when a new chapter is being formed.

New Material Advantage Chapter Petition Form

This form is used with the Chapter Charter Application when a new chapter is being formed.

Material Advantage Chapter Conversion Form

This form can be used for ACerS Only, AIST Only or Joint ASM/TMS student chapters to petition for a new Material Advantage Student Chapter Charter.

Travel Reimbursement Form

Material Advantage Chapter Travel Reimbursement Request Form

This form gives chapters the opportunity to request funding for chapter attendance at ACerS Annual Meeting and ASM Annual Meeting both of which are held in conjunction with MS&T, TMS Annual Meeting and AISTech.

Material Advantage Student Membership Applications

Material Advantage student membership applications are available directly on the Material Advantage website. Students may also apply or renew their membership directly on the Material Advantage website.

For detailed information on travel grants and travel reimbursement, please refer to the website:

www.materialadvantage.org

MATERIAL ADVANTAGE STUDENT CHAPTER ANNUAL REPORT COVER SHEET



The Student Program for Materials Science and Engineering

Student Chapter Name:		
Academic Year:		
University (if different from c	pter name):	
The following items must be	tached:	
; Annual Report		
Gopy of Current Studen	g Year Chapter Bylaws, <i>if updated in the past year</i> .	
I hereby support this chapter's annu	report. The information contained within this report is accurate to the best of my knowled	lge.
Faculty Advisor:	Date:	
I hereby submit the attached Annual best of my knowledge.	port on behalf of my chapter. The information contained within this report is accurate to	the
Submitted by:	Date:	
	SURMIT BY JUNE 1 TO:	

Material Advantage Student Chapter Program c/o Chapter & Student Relations ASM International® 9639 Kinsman Road Materials Park, Ohio 44073-0002 Fax: (440) 338-4634

Email: students@asminternational.org

MATERIAL ADVANTAGE CHAPTER ANNUAL REPORT

Report should reflect activities during the past academic year (August—June).

REGULAR CHAPTER ACTIVITIES	
Number of Business, Technical or Educational Ch	napter Meetings:
Number of Guest Speakers not associated with the	e department at a chapter meeting:
Number of Guest Speakers associated with the de	partment at a chapter meeting:
Regular Chapter newsletter or printed communica	ntion: YesNo
Do you have a Chapter homepage?	YesNo
If yes, is it linked to the Material Advantage	homepage? YesNo
Other forms of visual or electronic communication	n to chapter (i.e., e-mail groups, bulletin board, etc.) Please list:
1	3
2	4
MEMBERSHIP DEVELOPMENT ACTIVITI	ES
Number of applications for ACerS, AIST, ASM o	or TMS Scholarship contests:
Number of applications for ACerS, AIST, ASM o	or TMS Paper contests:
Number of Chapter Social Events:	
	membership involved: Member Sponsor Program Chapter Program:
Career Resources, programs, or job fairs sponsore	ed by chapter. Please list:
1	3
2	4
SPECIAL CHAPTER ACTIVITIES	
Number of Tours Taken at companies/corporation	ns/ laboratories:
Attendance at ACerS, AIST, ASM or TMS Meeti	ngs by one or more members of chapter: YesNo
Outreach Projects for K-12 students (demonstration	ons, presentations, workshops, support of department recruitment programs, etc.) Please list:
1	3

Community Service/Campus projects/Fund Ra	ising Events. Please list:		
1	3	-	
2	4	=	
Faculty Advisor appreciation/recognition effo	rts. Please list activity:		
LOCAL CHAPTER/SECTION RELATION	NS		
Joint Activities held with Local ACerS Section	n, AIST Member Chapter, ASM Chapter	or TMS Se	ection : Please list:
1	3	_	
2	4	=	
Attendance at Local Chapter/Section Meeting by one or more members of chapter:		Yes	No
Student Member or Faculty Advisor sits on Executive Committee:		Yes	No
Regular communication with nearest local chapter/section (newsletter, calls):		Yes	No
OTHER SIGNIFICANT ACTIVITY			
Please describe:			

Additional information may be attached.

MATERIAL ADVANTAGE STUDENT CHAPTER OFFICER LIST

Chapter Name:	Academic Year:
Nome	FACULTY ADVISOR
Name: M	ember I.D.#:
Preferred Mailing Address:HomeBusiness Phone:	
Address:	
E-Mail:	
CHAIR	SECRETARY
Name: Member I.D.#:	Name: Member I.D.#:
Member I.D.#:	Member I.D.#:
College Mailing Address:	College Mailing Address:
Phone: E-Mail:	Phone: E-Mail:
VICE-CHAIR	TREASURER
Name:	Name:
Member I.D.#:	Member I.D.#:
College Mailing Address:	College Mailing Address:
Phone: E-Mail:	Phone: E-Mail:
L-ivigii.	E-ividii.
Submit with the	e Student Chapter Annual Report

MATERIAL ADVANTAGE STUDENT CHAPTER OF EXCELLENCE PROGRAM

SUMMARY

The Chapters of Excellence Program rewards and recognizes Student Chapters for consistently good performance in areas that ACerS, AIST, ASM and TMS feel are beneficial to students and the community as a whole. In order to enter the Chapters of Excellence Program, the Chapter must submit a report on or before June 1. The Chapter must also submit the annual report and be an active Material Advantage Student Chapter.

All entries received before June 1 will be judged by a panel of experts nominated by ACerS, AIST, ASM and TMS. The following awards will be presented at MS&T:

- Most Outstanding Chapter (1). This Chapter will score the highest, according to the judging criteria listed later, taking all categories into consideration.
- Excellent Chapter (5). These Chapters will demonstrate overall excellence by scoring well on the judging criteria listed later.

ELIGIBILITY

- 1. Active Material Advantage Student Chapters which have submitted the annual report and who have their by-laws on file are eligible.
- 2. The Chapters of Excellence Report, in the appropriate format, must be received by June 1 to be considered. Late entries will not be accepted. Early submissions are welcome.

PRESENTATION OF AWARDS

Awards will be announced, and plaques will be presented at the Student Award Ceremony during the MS&T event each fall

AWARD CRITERIA

The following categories, which ACerS, AIST, ASM and TMS believe add value to the student membership, will be judged independently on a scale of 1 to 5, with 5 being outstanding and 1 being poor. Scores from each category will be added up, along with a ranking describing the overall quality of the report. The Chapter that receives the highest total score will receive the Most Outstanding Chapter Award. Up to 5 Chapters will receive Excellent Chapter Awards based on their total scores. Cash prizes and plaques will be awarded to each Chapter that receives Outstanding or Excellent designations.

The Excellence criterion is listed below along with brief descriptions of what should be included in the report.

- **Programming**. Describe programming activities that the Chapter conducted over the academic year. NOTE: Only describe programming activities that originated from the Student Chapter, and which would not have occurred without Student Chapter initiative. Do not simply list the Departmental Seminar Series, even if it was 'co-sponsored' by the Chapter. Adding value will be rewarded in this category. Discuss how the programming originated. Non-technical programming and Chapter-sponsored plant trips or field trips are also of value.
- Career Development. Describe activities including (but not limited to) programming, technical meeting attendance, Chapter-organized plant trips, and special career-based events that fostered student member career development.
- **Service**. Describe outreach and service activities that the Student Chapter organized or participated in during the year, including (but not limited to) outreach programs designed to foster an awareness of materials to K-12 students, majors to materials-based careers; community or campus service activities.
- **Social Activities**. Describe social activities conducted by the Chapter. Discuss level of participation, and benefits to the students and the community as a whole.

• Chapter Management. A strong Chapter requires membership development activities, sound management, and record keeping. Describe management procedures, including elections, finances, reporting duties, recruiting activities, record keeping, Chapter web site, etc. Describe how the Chapter ensures continuity of excellence from year to year. Elaborate on level of participation in meetings and Chapter events. How does the Chapter recruit students into the Material Advantage Student Membership program, and how successful are these efforts?

REPORT FORMAT

- Reports must be submitted electronically in Adobe .pdf format to <u>students@asminternational.org</u>
- Include a cover page, and a brief overview of the Chapter no more than 2 pages, less than that will NOT be penalized.
- Include sections with titles that match the excellence categories listed above, in the order given above. Each section must be no more than 3 pages, including figures, tables or photos. Do not feel any pressure to fill 3 pages per section; content is more important than length.
- Include a letter of support form the Chapter Faculty Advisor
- Include a good photograph of the officers from the academic year covered in the report not incoming officers. Identify them by name and office.
- A calendar of events may be attached if desired, but this is not required.
- An optional summary page may be included.
- Do not include additional information or appendices.

Material Advantage Chapters 2013-2014

	intage Chapters 2013-2014
ACTIVE CHAPTERS	
Alabama - Birmingham, University of	Purdue University
Alabama - Tuscaloosa, University of	New Jersey Institute of Technology
Alberta, University of	New Mexico Institute of Technology
Alfred University	Northeastern University
Arizona, University of	Northwestern University
Arizona State University	Ohio State University
Boise State University	Pennsylvania State University
California - Berkeley, University of	POSTECH
California – Davis, University of	Puerto Rico-Mayaguez, University of
California - Irvine, University of	Purdue University
California – San Diego, University of	Rensselaer Polytechnic Institute
California Polytechnic University, Pomona	Robert Morris University
California Polytechnic University, San Luis Obispo	Rutgers University
Carnegie Mellon University	South Dakota School of Mines Technology
Case Western University	Tennessee-Knoxville, University of
Clemson University	Tennessee Tech
Colorado Schools of Mines	Texas A&M University
Connecticut, University of	Texas-Arlington, University of
Drexel University	Texas-Austin, University of
Florida International University	Texas-Pan American, University of
Florida, University of	Trine University
Georgia Tech	UNAM-SIQMA
Houston, University of	Utah, University of
Idaho, University of	Virginia Tech
Illinois Institute of Technology	Washington State University
Iowa State University	Washington, University of
Indian Institute of Technology, Kanpur	Wisconsin-Madison, University of
Indian Institute of Technology, Madras	Wisconsin-Milwaukee, University of
Kentucky, University of	Worcester Polytechnic Institute
Lehigh University	University of British Columbia
Maryland, University of	University of Hidalgo State
McMaster University	University of Illinois Champaign-Urbana
Michigan, University of	University of Monterrey
Michigan State University	University of North Texas
Minnesota, University of	University of The Punjab Lahore
Missouri University of Science and Technology	University of Virginia
Montana Tech	