

Local Section News

Chairman's message

Welcome, everyone, to the Susquehanna Section's 2007-2008 year!

With summer fading away we are getting geared up for another fun and especially challenging year for our Section. We have made plans for several exciting programs. Be sure to check out the newsletter and our website at <http://sections.asme.org/Susquehanna/> to discover the details of when and where things are happening. Dave Kitlan keeps the website up to date with the latest news about what is happening in the Section.

This year we plan to have joint meetings with other societies: IIE and AiCHE. They will include A Nickel Institute speaker, Hershey Bears Game and Tour, speaker on Corporate Diagnosis and Policy Development, speaker from the Center for Sustainable Technology Practices, tour of International Automotive Components Group, Elizabethtown College Student Presentations and a multi-society networking social. WHEW!

To achieve our financial goals, your section plans to advertise for and solicit sponsorships from local benevolent industries. In addition to offering the Professional Engineer's Exam Refresher Course in November, we plan to offer courses in management, machine design, and specialized courses for local industries.

SENIOR PRODUCTS ENGINEER

Leading professional firm seeks individuals with broad expertise for interesting part-time and fulltime assignments providing technical investigations, analysis, and reports.

Must be degreed professional with 15+ years hands-on experience in the design, manufacture, and repair of a wide array of consumer, medical and industrial products. P.E. preferred, excellent analytical and communication skills required.

Email resume and cover letter to
jobs@robsonforensic.com.
Ref: ASME-092007

Chairman's Message Cont.

To provide greater service to our members, we plan to expand our Honors and Awards program, offer financial and personal contributions to engineering and mathematics programs from K through college, assist and encourage our Student Sections, and support local government with engineering/technical related topics.

Additional challenges are directly ahead of us and our membership. We do have chairmanships open for you: Programs, Industry Relations, Honors and Awards, Member Interests, and Public Information. However, your assistance will be welcome in whatever capacity you choose to pursue.

You are welcome to come out to our regular monthly meetings, and also join us when our Executive Committee meets to set the future course of the Section. Feel free to pass along any suggestions or feedback to let us know what we can be doing to better serve our members.

I am looking forward to meeting you at our September kickoff meeting.

Your Society needs your help! Please give our call some consideration, and give me a call: 717-269-0011.

Best Wishes! Mike
grandiam2@asme.org

Upcoming Events:

October 16: Technical Dinner meeting with speaker from the Nickel Institute

Sponsored by AiChE Susquehanna Section
Must RSVP by 10/4/2007 see details on last page of newsletter

December: Hershey Bears Hockey and Arena Tour

January:

16: Presentation – Speaker Wayne Marhelski – “Driving the Lean Transformation with Corporate Diagnosis and Policy Development - **Sponsored By IIE Lancaster, Harrisburg, York Chapter**

24: Technical Dinner meeting with speaker from the Center for Sustainable Technology Practices (CSTP) on the Roadmap to Sustainability – **Sponsored By AiChE Susquehanna Section**

I-SHOW PREMIERS AT 2007 CONGRESS



ASME, in collaboration with the National Collegiate Inventors and Innovators Alliance (NCIIA) and Idea to Product (I2P) competitions will present the first Innovation Showcase, (I•Show) contest, Nov. 9, held in conjunction with the 2007 ASME Congress in Seattle, Wash., Nov 11-15. The I•Show is a competition that encourages teams of individuals to present their technological innovations to an audience, which will include successful entrepreneurs, seed venture capitalists, and intellectual property specialists. Judges will decide the best and most feasible ideas, and winners will receive seed funding and additional product and start-up support. I-Show will feature 10 semi-finalists for the inaugural competition including teams from the University of Washington, Penn State, Oregon State University, Texas A&M University and others.

For more details visit the Web site at http://www.asme.org/Communities/Entrepreneur/Innovation_Showcase_IShow.cfm or contact Patti Jo Snyder at snyderp@asme.org

Bernard Amadei Will Deliver Keynote at 2007 Congress



Bernard Amadei, Ph.D., the founding president of Engineers Without Borders-USA, will be the featured keynote speaker at the 2007 ASME International Mechanical Engineering Congress, Nov. 11-15, in Seattle. Amadei, a professor of civil engineering at the University of Colorado at Boulder, will speak on the topic of engineering innovation, particularly as it relates to sustainable solutions for needy populations in developing and underdeveloped countries of the world. He will discuss the shift in engineering education and practice called Earth Systems Engineering, aimed at creating interaction between engineering applications and the Earth's natural systems. The keynote session will be held on Sunday, Nov. 11, at 5:30 PM at the Sheraton Seattle Hotel. All Congress attendees are encouraged to attend.

Online registration for the 2007 ASME Congress is now open. To register or for more information about Congress activities and events, visit <http://www.asmeconferences.org/congress07/>

ASME IGTI to hold 2007 Gas Turbine Users Symposium in New Orleans

The International Gas Turbine Institute of ASME will conduct the 2007 GTUS, Dec. 11-13, at the Ernest N. Morial Convention Center in New Orleans. The symposium provides a forum for end-users to exchange ideas and share best practices regarding the operation and maintenance of industrial gas turbines and aero-engines. GTUS will co-locate with the 2007 Power-Gen International conference at the Ernest N. Morial Convention Center. GTUS registrants will receive access to all sessions in the 3-day symposium, as well as admission to Power-Gen and a complimentary copy of the conference proceedings on compact disk. GTUS will deliver practical information and provide an opportunity for engineers and other technical professionals to learn about solutions to problems shared in the global gas turbine industry. For more information or to register visit the web site at <http://www.asmeconferences.org/gtus07/>



The **ASME Volunteer Opportunities Bulletin Board (VOBB)** is a tool designed to help volunteer leaders promote local Section and Society-wide volunteer positions. It is also used to help link volunteers with opportunities for involvement in all areas of the society. Opportunities for involvement include standards development, pre-college outreach and educational activities, government relations, and the development of new products, programs and more.

Volunteer leaders are encouraged to use the VOBB as a recruitment tool. If your ASME group is looking for a few good volunteers to share their passion and make meaningful contributions, contact Deidra Hackley at hackleyd@asme.org or visit http://volunteer.asme.org/vobb/Post_Volunteer_Opportunity.cfm. For more information on posting or applying for a position on the VOBB visit <http://volunteer.asme.org/> or e-mail bookert@asme.org.

Changing the Face of Engineering: Diversity Action Grant Applications Now Being Accepted

Do you know of a Student Section doing some good work? Diversity Action Grant (DAG) applications are now being accepted from ASME student sections for the 2007-08 academic year. Student Sections located outside the United States, or collaborative projects with international partners, are strongly urged to apply.

The DAG Program, supported by the Center for Leadership and Diversity, is a competitive program which awards grants ranging from \$500 to \$1,500 to ASME Student Sections to sponsor events that:

- Promote the inclusion of women and under-represented minorities in ASME Student Sections and in mechanical engineering;
- Inspire K-12 students to excel in science, technology, engineering, and mathematics (STEM) education; and,
- Assist minority- and women-owned businesses in solving engineering design problems.

In addition, applications should promote collaboration with other organizations on campus or within the community, cost sharing of associated expenses, and a method for measuring the success of the project.

DEADLINE: Nov. 1. Apply Today!

www.asme.org/Communities/Diversity/Diversity_Action_Grant.cfm, or contact Marina Stenos at stenosm@asme.org.

ASME Offers Members Chance to have their Voices Heard During the CNN/YouTube Sponsored Presidential Debate on Nov. 25th, 2007

On Sunday, Nov. 11, as part of the International Mechanical Engineering Congress & Exposition (IMECE) the Government Relations Department of ASME will be providing members with the opportunity to register online with YouTube in order to formulate questions to ask the Presidential candidates as they debate policy issues live on CNN as part of "You Choose '08." This unique opportunity will allow ASME have their voice heard in front of the nation and possibly drive discussion as the U.S. prepares to elect a new President. The debate is formatted so that candidates answer videotaped questions from people.

This idea was originally conceived after ASME Member and former Washington Internships for Students of Engineering (WISE) intern Chris Deal decided to videotape a question for this debate related to global climate change and the possible policy implications of this issue. To view Deal's video please visit <http://www.youtube.com/watch?v=qTr2rQzoACI> For more examples, please visit <http://www.youtube.com/youchoose>.

For submission guidelines or to create a YouTube account, visit: www.youtube.com.

Questions are due by Sunday, Nov. 25, and you will be submitting your video as an individual, facilitated but not necessarily endorsed by ASME. Members who choose to submit questions are encouraged, but not required, to ask questions pertinent to the interests of ASME and those of mechanical engineers at large.

Early Career Engineer Essay Competition

The Old Guard Committee of ASME invites you to participate in an Early Career Engineer Essay Competition. The competition was developed to engage early career engineers in communicating advice and guidance based on your own personal/professional experiences and your relationship with ASME to new ME/MET graduates. The winning essay will be posted on the ASME Early Career website and the author will receive \$1,000 and a lifetime ASME membership.

For complete details visit:

http://www.asme.org/Communities/EarlyCareer/Old_Guard_Early_Career.cfm

A four-day career enhancement program for early-career engineers, Nov. 9–12, 2007 Seattle Sheraton, Seattle, Washington (held in conjunction with the ASME International Mechanical Engineering Congress & Exposition)

Nov. 9: Innovation Showcase

Become inspired at the I-Show, where 10 top collegiate student teams present their technological innovations to a judging panel of successful innovators, industry experts, venture capitalists, and intellectual property specialists for the ultimate reward: industry recognition and seed funds to move onto the next step in commercialization.

Nov. 10: Invention to Venture Workshop

Designed for the science, engineering, and technology communities, the ‘I2V’ is a one-day “entrepreneurship boot camp” that teaches technology entrepreneurship basics, helps build networks, and provides a framework for moving ideas forward. Topics include idea validation, intellectual property management, marketing, building the team, creating a business plan, and financing your idea.

Nov. 11: Early Career Forum & Fair

The Early Career Forum & Fair provides an outstanding opportunity to learn the skills necessary to get on the fast track of your engineering career. Industry experts offer key advice on how to advance in both technical and management areas. You have the opportunity to ask specific questions about your career goals.

Nov. 12: Early Career Development Series

The Early Career Development Series (ECDS) offers five dynamic sessions covering an array of engineering topics. The 2007 ECDS will focus on such pivotal topics as alternative energies, patents and intellectual property, aerospace design, engineering entrepreneurship, and government funding for engineering research.

For complete details, updates, and to register for the Early Career Forum & Fair and other early career programs, visit www.asmeconferences.org/ecf07

Universities Need Your Valuable Perspective!

Applications are being accepted through **Oct. 15** for ASME/ABET Program Evaluators.

Program Evaluators contribute to the continuous improvement of Mechanical Engineering, Mechanical Engineering Technology, or related degree programs by evaluating them against a set of criteria related to faculty, facilities, curriculum, and other key program areas. In doing so, you will be helping to assure the quality of undergraduate degree programs and the students graduating from those programs. Serving on an assessment team for a degree program is very professionally and personally rewarding and a great way of supporting the future advancement of the engineering profession.

Desired Qualifications:

- Demonstrate an interest in undergraduate education.
- Demonstrate desired competencies outlined in ABET’s Competency Model
- Have at least one degree in mechanical engineering, mechanical engineering technology, or a closely related discipline. Graduate degree preferred.
- 10+ years of work experience. Management experience a plus.
- ASME member or willingness to become a member prior to applying to serve as an evaluator

To complete an application and for more information, please visit http://www.asme.org/Education/College/ABET/Become_Evaluator.cfm

ASME is committed to increasing the range of valuable perspectives that comes from having a diverse cadre of program evaluators. As such, we especially encourage minorities, women, and engineers working in industry or government to apply. Contact Amy Bentow, manager, Education, at bentowa@asme.org or 212-591-7880 with additional questions.

Made a Difference in Engineering Education?

Do you know an individual or entity (e.g. company, organization, institution, etc.) that has contributed to engineering education in a significant way? If so, consider nominating them for one of the following society awards:

The **Frank von Flue Award**, established in 2002, recognizes significant contributions by an individual or a group to the promotion of lifelong learning for mechanical engineers. Lifelong learning is defined as the continued process of education and/or professional development, following a post-secondary education degree, to maintain the competence and flexibility of mechanical engineers throughout their career. Contributions may include assessment, development, distribution or promotion of materials for lifelong learning via appropriate mechanisms, such as professional development or university extension courses and programmed or self-paced learning.

The **Ben C. Sparks Medal**, established in 1990, is presented annually to a mechanical engineer for recognition of eminent service to mechanical engineering technology education through contributions toward ASME; towards higher education professional service; and towards the teaching and/or research facility roles in mechanical engineering and mechanical engineering technology. Candidates must have a record of outstanding performance in all of three areas: a broad range of contributions to ASME; dedicated efforts and a record of achievements in the advancement of engineering education and engineering technology education; and contributions, over an extended period of time, to the positive support, recognition, or interaction of mechanical engineering technology and mechanical engineering programs, their faculties, or students.

The deadline for submitting nominations is Jan. 1, 2008. For more information and a nomination package, please visit: <http://www.asme.org/Governance/Honors/SocietyAwards/>

VOTE NOW !!

The Future of ASME is in your hands!!!

Information about nominees for Society Office for terms beginning in June 2008 is now available online.
http://www.asme.org/Governance/Nominating/Selections_By_2007_Nominating.cfm

Ballots are included in the Sept. 2007 Issue of ME Magazine and are due back no later than Oct. 24, 2007.

You have the power to shape the future of ASME!!

During the Annual Meeting in June 2008, the Nominating Committee will evaluate candidates, deliberate and nominate individuals from our Society for the following offices:

President

Board of Governors - 3 to be elected

Vice President

Education – Centers Sector

Safety Codes & Standards – Codes and Standards Sector

Conformity Assessment – Codes and Standards Sector

International Gas Turbine Institutes – Institutes Sector

Programs & Activities – Knowledge and Community Sector

Technical Communities – Knowledge and Community Sector

Government Relations – Strategic Management Sector

Terms of office for the positions voted above will begin in June 2009. Please evaluate individuals in your unit of ASME as possible nominees for the officer positions in your Sector. You may also wish to consider potential nominees for the offices of President and the three Board of Governor positions.

In addition, during the business meeting of the Annual Meeting in June 2008, the Voting and Alternate Members for the 2009 Nominating Committee will be elected.

The Nominating Committee is now smaller than previously, and it is crucial that each segment of the Society be represented in the selection process by a highly qualified Nominating Committee Member.

Please identify members to represent your sector.

For further information please contact RuthAnn Bigley at 212.591.7650 or bigleyr@asme.org.

Tuesday, October 16, 2007

**AIChE Susquehanna Section Meeting, Sponsored by M.G. Newell
“Materials Selection and Performance of Nickel-Containing Alloys for
Various Process Industries”, Presented by the Nickel Institute**

- Location:** Events Etc.
814 E. Chocolate Ave., Hershey, PA 17033
717.533.1151, ext. 2
<http://www.event-etc.com/>
- Schedule:** 4:45 to 5:45 pm ----- Happy Hour
5:45 to 6:30 pm ----- Dinner
6:30 to 8:00 pm ----- Presentation
8:00 to 8:30 pm ----- Question and Answer Period
- Cost:** Happy hour – Open bar – Sponsored by M.G. Newell.
Dinner \$20. Payable in cash at the door.
- Menu:** Choice of entrée: Chicken cordon bleu with Hollandaise sauce or Stuffed shells with marinara. Spring mix salad; assorted bread and rolls; hot vegetable; potato; desert; beverage of choice.
- RSVP:** To Lou Felice, lfelice@hersheys.com, by Thursday October 4 with your entrée selection. Act quickly to avoid disappointment; attendance is limited to the first 35 and we are opening this up to other interested societies to make sure we fill up.
- Sponsor:** **M.G. Newell Corporation** is an engineering and systems integrator for the food, beverage, dairy and life sciences industries. They are also a stocking distributor of sanitary process parts and components. The people at M.G. Newell offer years of experience and are proud of their 125-plus years of service. Attending from M.G. Newell are **Tony Saenz**, P.E., VP and Director of Engineering – Greensboro Division and **Gray Sherrill**, Director of Marketing and Business Development.
- Speakers:** **O.J. (Otto) Drescher**
Otto has over 40 years of experience with chemical plant design, operations and maintenance. He is an Engineering Specialist and retired from the Monsanto Corporation. He is currently a consultant to the chemical industry and the Nickel Institute. Otto's special interests include materials selection, failure analysis, inspection procedures and protective coatings. He is a graduate of the University of Dayton, a registered Professional Engineer and a NACE-certified Corrosion Specialist.
- R.W. (Bud) Ross**
Bud's experience has been in corrosion research, technical marketing of nickel containing alloys for the chemical, marine, pollution control and power industries, and project management. He previously worked for International Nickel Co. and the Materials Technology Institute of the Chemical Process Industries (MTI). Bud is currently a consultant to the chemical, power and marine industries, and to the Nickel Institute. He has authored many technical articles and books on phosphoric and marine corrosion. Bud is a registered Professional Engineer (California) and a Corrosion Specialist certified by NACE. He is a graduate of Marshall University. Bud recently received a NACE 2002 Technical Achievement Award for developing Ni-Cr-Mo alloy clad steel products for the process industries.

Abstract: This presentation will briefly discuss the basics of corrosion, cost and consequences of corrosion for US industries. Chemical, mechanical and other factors in materials selection process will be reviewed. A brief discussion about economics and life cycle cost analysis will also be given. The importance of defining the environment, required equipment, testing and inspection during material selection will be discussed. Chemical and mechanical properties of many of the common alloys; such as ferritic, austenitic, martensitic, duplex, precipitation hardening and high temperature stainless steels, and the nickel alloys used in various process industries, will be reviewed. Corrosion properties of the various alloys will be discussed with emphasis on pitting, crevice and stress corrosion cracking. Several selected applications will be presented, including a discussion of clad plate and alloy liners for new construction, as well as maintenance of process equipment.

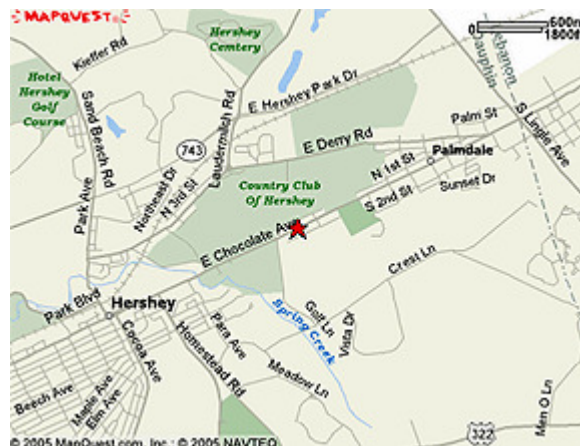
- Agenda:**
1. Introductions
 2. Basics of Corrosion; Forms and Mechanisms; Materials Selection
 3. Innovative Stainless Steel Alloys; Types and Properties of Stainless Steels
 4. Corrosion by Waters; Crevice Corrosion; Microbiological; 6% Mo Alloys; Velocity Effects
 5. Fabrication of Stainless Steels; Basics of Fabrication Video; Hygienic Design; Surface Finish; Passivation; Pickling; Electropolishing

Attendees will be offered: CD with all slides used at the seminar (upon request)
“Literature Available from NiDI” brochure
Copy of NICKEL Magazine

Directions: From Points West: Take I-83 to US-322 East; go straight and 322 East becomes 422 East (Chocolate Avenue); continue East on 422 through downtown Hershey; Events Etc. is on the right side of 422, approx. 1 mile past the Hershey town square.

From Points East: Take US-422 West; Events Etc. is on the left side of 422, approx. 1.3 miles past the traffic light at 422 and Lingle Avenue in Palmyra.

From the PA Turnpike: Take the Harrisburg East Exit 247; take I-283 North toward Harrisburg; take Exit 3C for US-322 East toward Hershey; go straight and 322 becomes 422; continue East on 422 through downtown Hershey; Events Etc. is on the right side, approx. 1 mile past the Hershey town square.



What is the Nickel Institute?

The Nickel Institute was formed March 1, 2004 and its members represent over 70% of current world production of nickel. The Nickel Institute's purpose is to generate and communicate knowledge required to support safe and sustainable production, use and reuse of nickel.

For consumers, governments, regulators and other stakeholders, the Nickel Institute is committed to responding effectively to the growing requests for nickel-related information. For nickel producers and users, it offers research-based, cutting-edge science and technical information. The Institute provides a single membership and management structure for activities previously undertaken by the Nickel Development Institute (NiDI) and the Nickel Producers Environmental Research Association (NiPERA). NiPERA is an independently incorporated division of the Nickel Institute, continuing as a well-respected provider of peer-reviewed, published information on the human health and environmental science of nickel.

The Nickel Institute continues the use-related technical work of NiDI, but focuses more on nickel issues related to stewardship and sustainable development, especially the generation and use of knowledge about the full life cycle impacts of nickel. The Institute develops partnerships with organizations representing the interests of the nickel-producing industry's downstream customers and other parts of the nickel life-cycle. The Institute also collaborates with regional and local metals industry organizations.

Nickel plays an essential enabling role in many areas of rapidly changing technology, such as transport, energy, architecture, telecommunications, food processing, water treatment, environmental protection and health care. Knowledge generated and disseminated by the Nickel Institute will support safe and sustainable production, use and reuse of nickel for today and for a brighter future.

Membership of the Nickel Institute is open to all producers of nickel. Current members are: Anglo Platinum, BHP Billiton, Codemin/Anglo Base Metals, Empress Nickel, Eramet, Falconbridge Ltd., Inco Ltd., Inco TNC, Nippon Yakin Kogyo, OM Group, P.T. International Nickel, Sherritt International, Sumitomo Metal Mining, Umicore and WMC Resources.

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POSTAGE

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