

The Baltimore Section cordially invites you to:

The Johns Hopkins 24th Annual Alexander Graham Christie Lecture

The lecture will be held on Thursday, March 22nd at the Johns Hopkins Homewood Campus from 4-5 PM. This year's speaker is Dr. Michael Pao, CEO of Floating Windfarms LLC. The title of his lecture is "Beyond Fossil Fuels: Floating Windfarms at Sea". In his lecture he will discuss the economics of wind farms and ways to reduce their cost.

More information can be found at:

<http://webapps.jhu.edu/eventslist/eventDetail.cfm?eventID=19868&profile>

Lecture Details

Date: March 22

Time: 3:00 PM Reception at 110 Hodson Hall
4:00 PM Lecture at 110 Hodson Hall
5:30 PM Dinner at Charles Common

Location: Johns Hopkins Homewood Campus

Cost:

Lecture: Free
Dinner \$30

RSVP and Payment:

RSVP to Deana Santoni-Long at 410-516-6451 or dsantoni@jhu.edu

Directions:

For a map or directions to the Johns Hopkins Homewood Campus please go to:

http://webapps.jhu.edu/jhuniverse/information_about_hopkins/visitor_information/how_to_get_here/homewood_campus/index.cfm

Additional parking info is on the next page.

The Baltimore Section of ASME is proud to present:

A Geometric Dimensioning & Tolerancing Fundamental Course

Course Outline:

- Introduction to Geometrics
- Datums ñ references, precedence, selection, targets
- Tolerances ñ straightness, flatness, parallelism, perpendicularity, angularity, etc.
- Position Theory and Verification exercises
- Projected Tolerance Zone
- Composite and Zero Tolerancing
- Fixed and floating fastener calculations
- Simultaneous vs. separate requirements
- Inspection Techniques and functional gages

Additional information is provided on pg 3.

Date/Time: April 26-27
8 AM - 5 PM

Location: Engineers Club of Baltimore
11 West Mount Vernon Place
Baltimore, MD 21201

Cost: Register by March 30th (early bird)
- ASME members: \$845
- Non-Members: \$995
After March 30th
- ASME members: \$995
- Non-Members: \$1,145

Class size: Limited to forty students

Reservations and Payment:

Please contact Greg Harris by email at gcharris@us.ibm.com

Meals: Continental breakfast and buffet lunch will be provided both days

GEOMETRIC TOLERANCING FUNDAMENTALS: WHAT YOU WILL LEARN:

The Geometric Tolerancing Fundamentals program is an in-depth study designed to develop a basic working knowledge in geometric dimensioning and tolerancing (GD&T). It is delivered per the ASME Y14.5M, 1994 standard. This program has been presented and refined over the past 25 years and covers what personnel need to know in order to work in an industrial environment on a daily basis. The course includes emphasis on all the basics, such as the rules, measurement theory, the datum reference frame, form, orientation, profile and positional tolerancing. The instruction contains a variety of computer color animated graphics, video clips and plastic models which allow the leader to present the concepts. The program approaches the subject from the "practical world" with the use of wood/plastic models that simulate parts, gages and inspection equipment. The basic philosophies of how, when, and where to apply geometrics along with common sense tips for producing quality parts are included. There is extensive discussion on the use of the datum reference frame and the application of the feature and datum MMC, LMC and RFS modifiers. Discussion also covers the application of geometric tolerancing to design, manufacturing and quality control.

Upon completing this program the students will have a solid foundation in the fundamentals of geometric tolerancing. A majority of the geometric concepts are animated with slides and video clips to help provide the instructor and students with a rewarding educational experience.

Special Features:

There are many workshop problems where the participants must complete position and profile verification exercises, datum selection exercises and solve virtual/resultant and IB/OB size calculations

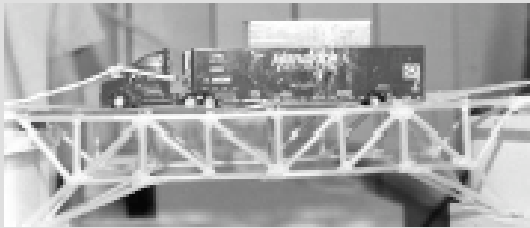
The class instructor is Mr. Al Neumann

He is President/Director of Technical Consultants Inc (TCI) which is located in Longboat Key, FL. TCI is a training and consulting firm specializing in geometric tolerancing. Al Neumann, President and Director, is a graduate of Central Michigan University. He has worked in a variety of engineering and manufacturing firms related to automotive as well as the defense industry. His exposure and enlightenment to geometric tolerancing began in 1965 working with Chrysler Institute, Chrysler Corporation. There, he provided engineering and manufacturing related training programs as well as geometric tolerancing training to various Chrysler Corp facilities along with its many suppliers. He has been a member on the ASME Y14.5, Dimensioning and Tolerancing subcommittee for the past 22 years. He currently serves as section sponsor on the Datums, section 4 group. Mr. Neumann is also a member on the ASME Y14.5.1 subcommittee on Mathematical Definitions of Dimensioning and Tolerancing. He has served as chairman on the US Technical Activities Group to ISO on Dimensioning and Tolerancing and Mathematical Definitions. He has served on national and international standards committees for the past 25 years. Mr. Neumann is a senior member of the Society of Manufacturing Engineers and the American Society of Mechanical Engineers.

Strawbridge Competition: April 21st

Each year the Baltimore section sponsors a Strawbridge competition where middle school age teams build bridges made from straws that must support a 6.5 lb weight. This years competition will be on April 21st. For more info on the competition look under "strawbridge" at:

<http://www.thebmi.org/content/index.cfm/ContentID/1811/SectionID/537>



Location: Baltimore Museum of Industry

Volunteers Needed: The section will be looking for volunteers to help run the event. We need engineers and non-engineers to help with the judging as well as crowd control. If you are interested in helping out please contact Paul Borthwick at (410) 891-2255. or paul.borthwick@teledyne.com.

New Director: Additionally, the competition is looking for someone to take over as Director of the Competition for the future. The present Director will still be in the area and available for mentoring but has have been running short on time to do a quality job. Anyone interested in the position should contact paul.borthwick@teledyne.com or (410) 891-2255.

Nominations for Fellow Grade

The Fellow Grade recognizes significant engineering achievements and contributions to the engineering profession. ASME takes great pride in its Fellows Program and encourages the nomination of ASME members to Fellow Grade. Any ASME member can submit a nomination for Fellow.

For additional information on ASME's **Fellows Program** visit:

<http://www.asme.org/Governance/Honors/Fellows/Fellows.cfm>

Also, those seeking help should consider contacting Dick Hirsch (Life Fellow) at RASMEHirsch@cs.com. He is willing to help anyone making a nomination by reviewing forms before submission. He spent 6 years on the Fellows Review Committee and knows what makes a good application.

Test Your Knowledge of the ASME e-Library and You May Win a Prize!

Enter the ASME E-library Challenge and test your research abilities! The Challenge has 3 to 5 questions which can be answered by using the resources in the ASME e-library. Prizes include American Express gift cards and ASME membership renewals.

The Challenge will be held from Feb. 19 to March 19, 2007. There are separate versions for members and students and winners will be chosen from entries that have all questions answered correctly.

Not familiar with the ASME e-library? It's a collection of 75 interactive technical references, available free to members. Use it anytime for answers to your technical questions, 24/7, anywhere you have an Internet connection.

To find out more about the library – or to sign up and login, just go to <http://www.asme.org/Membership/Benefits/Professional/eLibrary.cfm>

ASME Names New Face of Engineering for 2007



Aviva T. Bieler, a mechanical engineer at the Port Authority of New York & New Jersey, was honored among the New Faces of Engineering during Engineers Week 2007.

The Cooper Union graduate has focused on the redevelopment of the World Trade Center site, where she was instrumental in developing the air conditioning and smoke control systems for station platforms at the World Trade Center Transportation Hub. She is also currently involved with the design of the tunnel ventilation system for the Port Authority Trans-Hudson (PATH) line.

Recently, Bieler and 14 other New Faces representatives received national recognition when they appeared in USA Today.

New Faces of Engineering is an international recognition program aimed at promoting the accomplishments and contributions of young engineers, 30 years of age or younger, while creating awareness of the impact that engineers have on our daily lives.

MARK YOUR CALENDARS!

ASME 2007 Early Career Forums & Fairs

Don't miss the opportunity to network with peers and get practical advice and information on issues relevant to your developing engineering career.

These events consisting of career fairs and panel discussions from successful industry experts and senior-level engineers will increase your awareness of trends and career opportunities in the engineering profession.

Career Fairs will feature companies hiring engineers and other opportunities. Get more information about the Forums & Fairs and important information for US Citizens traveling to Canada in 2007 visit:

http://www.asme.org/Communities/EarlyCareer/Forum/Upcoming_Events.cfm

Montreal, Canada - May 13, 2007 (At ASME Turbo Expo)

Toronto, Canada - June 10, 2007 (At ASME Summer Annual Meeting)

Seattle, Washington - November 11, 2007 (At ASME International Mechanical Engineering Congress & Exposition)

ASME To Hold Three Industry-Focused Conferences on Biotechnology

Leaders in the science and engineering communities will assess the latest technology in bioprocess engineering, biomechanics and medical devices and instrumentation at three ASME conferences in June 2007.

The ASME Bioprocess Technology Seminars and Exhibits will be held June 4-6, 2007, at the Radisson-Dublin St. Helens Hotel in Dublin Ireland. The second conference, Frontiers in Biomedical Devices 2007, is scheduled for June 7-8, at the Hyatt Regency Irvine in Irvine, Calif. The 2007 Summer Bioengineering Conference will take place June 20-24, at the Keystone Resort and Conference Center in Keystone, Colo.

The three conferences will examine the progress and future directions in biotechnology research, and provide practitioners with the latest tools and training to advance commercial applications in the field. ASME's objective in presenting the conferences is to provide the fast-growing biopharmaceutical industry with useful resources to solve technology challenges.

For more information, visit: http://www.asme.org/Communities/Technical/BPE/Bioprocess_Activities.cfm



Advancing Your Career

The ASME Professional Practice Curriculum (PPC) is an online resource designed to help you advance in the engineering profession by providing guidance and resources on subjects that complement an engineers technical skills.

The PPC consists of 42 modules on topics ranging from product development and writing cost proposals to team building and negotiation. The PPC also provides information on alternative engineering career paths such as patent law, marketing and sales, and entrepreneurship.

Currently, the 5 modules in the Career Transition Series are free of charge. ASME members additionally have access to the following 4 modules through the [Members Only](#) website:

- Introduction to Intellectual Property (Business & Legal Series)
- Leadership Styles and Attributes (Management & Leadership Series)
- Effective Technical Presentations (Communications Series)
- Product Management (Product Management Series)

To get started, please visit www.professionalpractice.asme.org.

Call for Submissions: The Local Scoop!

Share your good news! ASME's Strategic Communications Committee, within the Center for Public Awareness, wants to publicize and celebrate noteworthy events and/or success stories that have occurred within your District or Sections!

If your District or Sections are planning or have completed some event or activity that you would like to share with the general ASME membership, contact Marina Stenos at stenosm@asme.org. You can either provide the information directly, or give us a contact person and we will follow up.

Student Activity Calendar

April

March 30-April 1

Student Prof. Development Conference, District B, Ann Arbor, MI

Student Prof. Development Conference, District C, West Lafayette, IN

Student Prof. Development Conference, District D West, Reno, NV

Student Prof. Development Conference, District D East, Moscow, ID

April 13-14

Student Prof. Development Conference, District E North, Tulsa, OK

Student Prof. Development Conference, District E South, Edinburg, TX

April 14

Student Prof. Development Conference, District A North, Hartford, CT

Student Prof. Development Conference, District A South, Newark, NJ

April 17-29 2007 Design of Medical Devices Conference

April 30-May 3 Offshore Technology Conference (OTC)

May

May 14-17 Turbo Expo, Montréal, Quebec, Canada

Executive Committee Meetings

All members are welcome and encouraged to attend the Executive Committee meetings. Meetings are typically the last Tuesday of each month at 7:00 pm.

Contact Section Secretary Stacey Sullivan at sullivans3@asme.org for details.

Directions To UMBC: *Note – Parking in Lot 16 costs \$.50, quarters only*

Take I-95 to exit 47, which is I-195/MD Rt. 166. Follow the signs to UMBC, which will lead you to bear right. Once on the campus, turn left at the stop sign onto Hilltop Circle. Turn right at the stoplight, and continue going straight until you reach the faculty parking lot. Pay \$.50 and park anywhere in the lot. The ECS building is the middle building bordering the parking lot.

See map at <http://www.umbc.edu/aboutumbc/campusmap/>

Newsletters Available Online

The Baltimore Section Newsletter is primarily available online. Issues will be available for viewing online at the following URL:

<http://sections.asme.org/Baltimore/Newsletters.html>

If you have not done so already, please contact Newsletter Editor Duncan Brown at email: duncan_brown@comcast.net, or telephone: (410) 489-7770 if you would like to receive a paper copy of the newsletter each month.

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