



Chicago Section Newsletter

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February 2006

Upcoming Meetings

Thursday, February 9, 2006 @ 6pm – *Engineers Without Borders*

Join us at the Prime Minister Restaurant in Northbrook for a special presentation. Jessica Kaminsky of Engineers Without Borders will be presenting a talk about her organization. Its slogan is "Building a Better World, One Community at a Time". For more information about the organization, go to www.ewb-usa.com/index.php. Cost to attend is \$25 for Members, \$30 for non-Members, and \$13 for Students. The Prime Minister Restaurant is located at 3355 N. Milwaukee Avenue in Northbrook. For additional driving directions, call the restaurant at (847) 296-4423. Register at <http://www.sections.asme.org/chicago> or call 847-646-6054 (Tom Peterson) **LATE WORD: SOLD OUT!**

Thursday, March 22, 2006 @ 6 pm – *Non-Destructive Evaluation*

Presented by Jan Achenbach in conjunction with National Manufacturing Week

In 1985 Achenbach established the NU Center for Quality Engineering and Prevention, which is an advanced lab for quality control in mechanics, with a focus on aircraft. Achenbach's work has centered on non-destructive evaluation, which includes using ultrasound to detect tiny cracks in airplane wings from the outside so disassembly is not required for inspection. This is said to reduce inspection time from 800 hours to 50 and to save millions of dollars. Several commercial airlines and the Air Force have benefited from work done in Achenbach's lab.

Location: The Ram, 9520 West Higgins Road, Rosemont, Illinois 60018 (847) 692-4426
<http://theram.com/il-rosemont.php>

Entrée choice, Bighorn Shrimp Salad, 14oz. Center Cut New York Strip, Steak and Seafood Combo, Chicken Linguini, Alaskan Red King Salmon, Jack Daniels Chicken. Cost is only \$30 for members and their 1st guest, \$35 for non-members, and \$16 for students.

Thursday, April 20, 2006 @ 6 pm – *The Technology of I-Pass*

Regardless of your preference for Highways as Freeways or Tollways, the technology that makes automated toll collection work is both innovative and interesting. Mr. Bruce Whiteside is a Senior Systems Engineer at TransCore, the technology contractor for Illinois Tollways' I-Pass system. Mr. Whiteside will provide an overview of the technology behind the automated I-Pass system along with insight on how the network operates, processing over one million transactions per day. He will preview the ongoing Open Road Tolling initiative and a recently added feature called "IAG" (InterAgency Group). IAG allows I-Pass transponders to work on other eastern states' toll roads and their transponders (EZ-Pass) to work on the Illinois Tollway system.

Mr. Whiteside is an award-winning engineer, manager and inventor with over thirty years of experience in product development of high technology networked microprocessor systems. He provides technical leadership for the development staff of TransCore's toll collection technology and is responsible for contributions to process technology, architecture, and feature feasibility analysis. His previous experience includes working for Tellabs and Bell Laboratories. Mr. Whiteside holds a Bachelor of Science Degree in Engineering and a Masters in Business Administration. He has a U.S. Patent in wireless telephony and is a Senior Member of IEEE's Computer and Communications Societies.

Registration begins at 6:00pm, followed by Dinner at 6:30 and the featured presentation at 7:30pm. Meeting Fee including dinner: \$25: Members, \$13: Students, \$30:Non-members. Register online at <http://www.sections.asme.org/chicago/> or call (847) 646-6054. Registration deadline is Monday, April 18th, 2006 by 5:00pm. Space for this event is limited to 35 people, so sign up early to ensure your seat!

Thursday, May 18, 2006 (@ 5:45 pm if a dinner meeting) - How to Solve Problems

Allan R. Kishpaugh, PE, President of ARK SERVICES CORP. and the current Chair of the ASME Chicago Section, will present an explanation of formal problem solving techniques with particular emphasis on future results analysis. We all encounter myriad problems and often we solve them without thinking about the method used. Too often problem solvers fail to properly consider the future results of a solution selected. This can lead to more serious problems than the ones "solved"! Dynamic planning, decision analysis, and variance analysis will also be covered in this two-hour presentation that should be valid for two Professional Development Hours.

Mr. Kishpaugh learned these techniques during an intensive, grueling problem-solving course of more than forty hours of instruction in one week, and developed them further through many years of experience. He has applied these techniques while solving problems for civic, commercial, industrial, government, professional and religious organizations. He has presented various courses and seminars sponsored by ASME; the Midwest Society of Professional Consultants; the Huntsville Association of Technical Societies for NASA personnel; Medical Device & Diagnostic Industry Magazine; Expocon Management Associates, Inc.; the University of Alabama at Huntsville and a private consulting firm in Mexico City that brought an audience of executives from many leading Mexican companies via simultaneous translation.

Due to member requests we are considering a meeting without dinner in an area with many local restaurants, maybe light refreshments at the meeting. Attendees could eat at a nearby restaurant or at home before coming to the meeting. We would not want to have a no-dinner meeting if that would cause less attendance! **Your comments to ASME@arksvc.com re dinner or no dinner are needed.** The presentation will be from 7:00 to 9:00pm. Registration time and other details to be announced. The meeting will be held in the southern suburbs, probably Crestwood.

Thursday, June 8, 2006 @ 6 pm

Putting the Power of Insulation to Work - The Forgotten or Lost Technology

This presentation is a fast paced, humorous hands-on program with questions and answers throughout.

The power of insulation: What is that? Can insulation eliminate mold growth, control condensation, reduce energy consumption, reduce emissions, increase safety with personal protection, reduce sound levels, increase productivity and provide a return of investment? Usually what sounds too good to be true, isn't. That's not true here: A correct insulation system, properly installed and maintained can do all these things. This presentation provides evidence as to the power of insulation and explores what educational and awareness programs are available to assist you in your business by putting the power of insulation to work. You have to see this to believe it.

Insulation is a proven technology for energy conservation, emission reduction, personnel protection, sound control, increased process productivity and a host of other benefits. However, insulation systems are often overlooked, undervalued, applied but rarely "engineered", and are not performing to capacity. This presentation examines the simplicity of this valued technology, simply known as insulation. It answers such questions as, "What is an insulation system?", "What should be considered in the system selection criteria?", "What is the risk versus the benefit of a correct insulation system?", "What is the value of maintaining the system?", and "Can the return on investment be calculated?" Sounds complicated, but the presentation provides evidence that it's not.

Presenter: Ron King or other representative of the National Insulation Association

Format: Educational PowerPoint presentation with a question and answer period.

Location, Price and Date: To be announced

International Mechanical Engineering Congress & Exposition (IMECE) 2006 Nov 05 2006 - Nov 10 2006, Chicago, Illinois, United States

ASME is now planning for tours to be held during the International Mechanical Engineering Congress & Exposition. ASME Chicago is also interested in learning of tours we might sponsor later this year or next year. If you work for a facility that would be good for a tour and which you think would like to accommodate a tour, please let us know by email to ASME@arksvc.com. It would be especially helpful if you can also provide the contact information for the person with whom to make arrangements.

ASME Chicago's website at <http://www.sections.asme.org/chicago/> is the best place to find up-to-date Section news and information.

Volunteers Wanted - ASME Chicago has opportunities for members to help with the work while developing new skills. Volunteers can earn Professional Development Hours (PDFs) required of Professional Engineers for license renewal by the State of Illinois.

For more info write ASME@arksvc.com or phone Al Kishpaugh at 708-371-3674.

The Washington Award

Each year during Engineers Week the prestigious Washington Award is conferred upon an engineer or engineers whose professional attainments have "preeminently advanced the welfare of humankind". Presentation of the award is made at a joint banquet of the members and guests of the Western Society of Engineers; the American Institute of Mining, Metallurgical and Petroleum Engineers; Institute of Electrical and Electronic Engineers; National Society of Professional Engineers; American Nuclear Society; and American Society of Mechanical Engineers. Past recipients of the award include Herbert Hoover, Orville Wright, Charles F. Kettering, Henry Ford, Lillian Moller Gilbreth, H. G Rickover, Dixy Lee Ray, Neil Armstrong, Stephen D. Bechtel, John H. Sununu, Wilson Greatbatch, Donna Lee Shirley, Dan Bricklin and Bob Frankston, Richard J. Robbins, Eugene Cernan, Nick Holonyak, and Robert S. Langer, the 2005 Washington Award Recipient. ASME Chicago is proud to contribute to the recognition of great achievements in engineering and therefore has donated \$300 to the Washington Award. The 2006 Washington Award recipient is Dr. Henry Petroski, P.E., of Duke University. The banquet will be 2/24 at the Hyatt Regency McCormick Place. Attendance fee is \$75. Additional details are available from Al Kishpaugh, ASME@arksvc.com

ASME Chicago Scholarships

Last year ASME Chicago awarded two \$1,000 scholarships. Later this year the Scholarship Committee will consider whether to award a scholarship or two again this year. Check our website for more information.

National ASME SCHOLARSHIPS AVAILABLE!

ASME awards nearly \$100,000 in academic scholarships annually to Student Members worldwide. Applications for the 2006-07 academic year will be accepted online from Feb. 1 through March 15, 2006. For more information, visit: <http://www.asme.org/Education/FinancialAid/Scholarships/Scholarships.cfm>

2006 ASME Young Engineers Award Nominations Needed!



The ASME Old Guard Committee is accepting nominations for the 2006 Young Engineer Award. ASME members that have made great strides in the engineering profession, community and the work of the society and have continuous membership since becoming an ASME student member and earned a baccalaureate degree in Mechanical Engineering between the years March 1, 2000 - March 1, 2002 are eligible to apply.

The Grand Prize is \$5000 including a prepaid life ASME membership. To learn more about the selection criteria and how to nominate, visit: <http://staging.files.asme.org/asmeorg/Communities/EarlyCareer/8026.pdf>



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Log onto www.sections.asme.org/chicago for up-to-date information, including section meetings, employment assistance, advertising, educational opportunities, and suggestions for volunteering in the ASME Community.