



The Macrogram

Hartford Chapter of the ASM International

Build on our Strengths - Leverage our Diversity - Network to Succeed

MONTHLY MEETING - TOPIC

May 20, 2004 - Annual Meeting
Joint with Southern Connecticut Chapter

Plant Tour: Waterbury Rolling Mills, 240 East Aurora Street, Waterbury, CT - 4 PM

Topic: State of the Art in Cold Rolling Technology

Speaker: Mr. John W. Turley

Vice President - Engineering & R&D
T. Sendzimir, Inc., Waterbury, CT

Location: Rapp's Paradise Inn, 557 Wakelee Avenue, Ansonia, CT

Directions: Exit 19 off Route 8

Agenda:

Cocktails: 5:30-6:30 PM

Dinner: 6:30-7:30 PM

Program: 7:30-8:30 PM

Program Charges:

Regular Members - \$25.00

Retirees - \$10.00

Full Time Students - \$10.00

Reservations: Contact Analytical Consulting Tech., Inc., Waterbury, CT, (203) 757-3960 Attention: Don or Jean *by noon May 16th. Thanks!*

Note: Name, Company and Contact information required for Plant Tour. Competitors of Waterbury Rolling Mills will not be allowed.

Abstract & Speaker's Bio:

Mr. Turley is a graduate of Imperial College, London, and Cambridge University. At Sendzimir, Mr. Turley is responsible for mechanical design and development for the Sendzimir cluster rolling mills and shape meters. Mr. Turley will describe the most up-to-date design features of cold rolling mill equipment. His extensive experience in this important metal processing field will make this meeting a fascinating and informative technical dinner presentation for ASM members and guests.

HARTFORD 2004-5 OFFICERS NOMINATIONS

Nominations for Chapter officers for July 1, 2004-June 30, 2005 are now being accepted. Please submit your nominations (you can nominate yourself) to chair@asm-hartford.org:

OFFICE

Chair - Open

Vice Chair - Joe Zucco

Treasurer - John Rugh

Secretary - Jack Woodilla



September 30 - October 2, 2004

The Hydrogen Economy, Fuel Cells and the Environment

An Intersociety Symposium



The Hartford ASME (American Society of Mechanical Engineers), and Connecticut Sections of the SAE (Society of Automotive Engineers), ASM (American Society of Materials) and the AIChE (American Society of Chemical Engineers) are jointly sponsoring an Intersociety technical event.

The Symposium will address leading edge engineering, technical, environmental, and economic issues associated with the use of hydrogen as a fuel for motive and stationary power systems, and fuel cells with high efficiency fuel energy conversion capabilities. Hydrogen is the only emission free fuel with only water as a byproduct. No NO_x, SO₂, H₂S, CO/CO₂, CH₄/Hydrocarbons or Ash byproducts are produced. Water is recyclable. Hydrogen is planned as a replacement for CO₂ emitting carbon based "greenhouse" fuels. Hydrogen fuels could reduce US dependence on foreign oil and aid the environment. Experts in energy generation, related business matters, motive systems, fuel cells and hydrogen generation will discuss hydrogen and fuel cell state-of-the-art Issues. A Student Poster Session and Company Product Displays are planned.

DATES/TIMES: Thursday 30 September (16:00-22:00), Friday 1 October (16:00-22:00), Saturday 2 October (07:30-17:30); Complimentary refreshments will be served on all three days with a complimentary continental breakfast and lunch on Saturday.

LOCATION: RENSSELAER AT HARTFORD
275 Windsor Ave., Hartford, CT

FEES:

Students (Student ID required): Thursday and Friday: \$19/session; Saturday \$26

Engineers, Academics, Business and Technical Persons: Thursday and Friday: \$30/session; Saturday \$47

3- Day Total Discount: Students: \$55; Sponsoring Society Members \$90; Others: \$95

REGISTRATION: June 1 through September 20, 2004
Payment is required in advance. Register early seats (limited to 100 persons) will go fast.

Mail registration form and fee to:

THE HARTFORD ASME, c/o DAVID N. PALMER
8 Valleyview Dr., Tolland, CT 06084-2811

Make checks payable to "HARTFORD ASME"

Information: E-mail Dave Palmer at dnelsonpalmer@aol.com.

June 8, 2004

Awards, Scholarship & Sustaining Member Night

Topic: Materials Camp

Directions: Cugino's, 1076 Main Street, Newington, CT, Ph: (860) 665-0881

Main Street is Route 176. **Cugino's** is south of Route 175 (Cedar Street). Use alleyway to parking area in rear.

Agenda:

Cocktails: 5:30-6:30 PM

Dinner: 6:30 7:30 PM

Program: 7:30- 8:30 PM

Program Charges:

Regular Members - \$28.00

Retirees - \$15.00

Full Time Students - \$15.00

Technical Chairperson: Arnie Grot

Social Hour Sponsor: TBA

Reservations: Call Laura or Patti at Dynamic Metals (860) 583-3336 by noon June 4th. **Thanks!**

Materials Camp is weeklong academic camp for highly motivated inquisitive students, with math and science aptitude, entering their junior or senior year in high school. The students are organized into small groups and teamed with a Volunteer Faculty "Materials Mentor" who works with them throughout the week. A variety of experiments and lab activities such as metallography, mechanical testing, light microscopy, fractography, scanning electron microscopy, image analysis, and chemical analysis are used. ASM Hartford has sponsored participants each year since the inception of the camp in 2000. *Each endowed scholarship provides in perpetuity the funds needed to send one student to Materials Camp each year.* Our fifth sponsored student will attend the **2004 Eisenman Materials Camp** in Materials Park, OH on August 9-15, 2004. *Greg* and his parents will be our guests at this meeting. We will review the video from the 2002 Materials Camp.

The **2004 Arthur E. Focke LeaderShape Award** sponsors six ASM student members each year to attend the LeaderShape Institute. Student leaders are offered a unique way to meet the changing needs of a diverse world and to develop skills that will benefit them personally and will be valuable to the companies and industries in which they will work. Through the encouragement of ASM Hartford, *Juan Villegas*, President of the UConn ASM/TMS Student Chapter, applied for and was chosen to attend the LeaderShape Institute this summer.

The **2004 ASM Hartford Scholarship** was awarded to *Brandon Berke* at the UConn School of Engineering Awards Banquet on April 19, 2004. The Chapter Scholarship goes to an undergraduate who is enrolled in the Department of Metallurgy & Materials Engineering, nominated by the faculty and selected by our Executive Committee. Brandon and his parents will be our guests.

Sustaining members are a critical part of the success of ASM-Hartford. They provide both a continued core presence at Chapter activities, and an increased level of financial support. In return, they enjoy the goodwill and camaraderie, and the satisfaction of helping to educate young materials scientists. We honor our sustaining members by having their representative as our guest.

Individual members are, and always will be, the strength of ASM Hartford. ASM has existed to provide a means for exchanging information and professional interaction. Today, our role has expanded to serve the technical interests of metals and materials professionals all over the world with providing information and interaction remaining as our main purpose. This is why we'd like to hear your thoughts about the future of ASM – what we can do better in terms of chapter member services, what new aspects of our profession we should spotlight and how we should present the rewards of a materials engineering career to the next generation of young engineers. Each year on Awards Night, we recognize those members, who mark their 5, 15, 25 and Lifetime Awards during the year with a small token in celebration of these milestones.



The Zeiss Mat Mobile is on tour. The Mat Mobile is a mobile microscope lab equipped with the latest products that will enhance your work in research, quality

control and failure analysis. Everything from Stereo to Laser Scanning Confocal Microscopy is onboard. Learn about Zeiss exclusive Circular DIC & TIC techniques, Enhance Contrast objectives, new digital microscopy, image archiving and analysis software for Grain Size, Multiphase, Graphite, & Dendritic Arm Space measurements and much more! *Daily Prize Drawing.* You could win a Zeiss Stemi DR stereomicroscope! See the Mat Mobile at (Register: <http://www.zeiss.com/matmobile>):

☛ **06/21/2004: 363 Roberts St. I-84 at Exit 58, East Hartford (CT, 06614)**

Time: 09:00 AM - 04:00 PM

Location: Holiday Inn East Hartford - open to the public

☛ **06/22/2004: 250 Knotter Dr., Cheshire (CT, 06410)**

Time: 09:00 AM - 04:00 PM

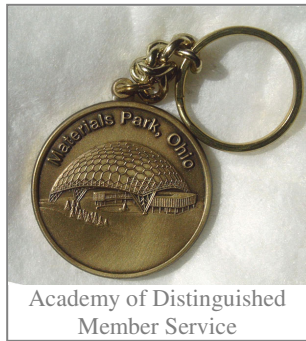
Location: BAE Systems Parking Lot - Cheshire Industrial Park - open to the public

September 15, 2004
Annual Golf Outing Classic
180 West Street-Hebron, CT



CHAIRMAN'S LETTER

Our last meeting of the 2003-2004 Chapter year on June 8 will be a celebration. **Awards, Scholarship & Sustaining Member Night** continues our mission of breaking through to and focusing on our people in a way that sends them energy and brings out the best in them. The focus is on recognizing our individual and sustaining members and those students who directly benefited through association with ASM Hartford. The list is extensive. Look to the June 8 meeting description for more details. We are especially pleased that this summer we are sponsoring our fifth successful high school student applicant to attend Materials Camp in its five year history. Please meet them in celebration.



Our May 20 meeting is also our *Annual Meeting*. Jointly with the Southern Connecticut Chapter we offer the opportunity to tour the Waterbury Brass Mill. In the technical presentation after dinner, Mr. John Turley, Vice President - Engineering & R&D, T. Sendzimir, Inc., Waterbury, CT, will describe the most up-to-date design features of cold rolling mill equipment. Tour space is limited and so you will want to reserve your spot early. In the business meeting both the Hartford and the Southern Connecticut chapters will present their chapter's slate of 2004-2005 officers. The Hartford slate of nominations was distributed in April and appears with the meeting notice.

Chapter leaders have established a head start on several events for 2004-2005. The Hartford Chapter *2004 Annual Golf Outing* will be another Classic. Rebecca Gatzen has booked a shotgun start at Blackledge Country Club in Hebron for September 15, 2004.

We are jointly sponsoring an intersociety technical symposium, *The Hydrogen Economy, Fuel Cells and the Environment*, that will address leading edge engineering, technical, environmental, and economic issues associated with the use of hydrogen as a fuel for motive and stationary power systems, and fuel cells with high efficiency fuel energy conversion capabilities. The symposium will be September 30 to October 2. More details of the symposium appear in the meeting description section of this newsletter.

A joint Hartford/Southern CT committee are developing preliminary plans for *Materials Week*, April 18-22, 2005. They are pursuing a day of displays and presentations highlighting unique applications of materials at the *New England Air Museum* that will reach young minds as well professionals. Please contact Joe Zucco at j.zucco@att.net to be part of this team.

To help achieve our mission of *providing technical knowledge, education, networking and professional development* we are introducing the ASM Hartford Apprenticeship/Mentor Program. Individuals, companies and the Chapter will benefit from the broad knowledge of materials issues and contacts obtained through this program. We are presently building a list of tours

and workshops that will be part of the program. More details are found on our web site. Contact Jack Piela or me to add your company for at tour or workshop or to be part of this program.

The ASM Hartford winter meetings were rousing successes. Dr. Martin Blackburn gave us insights into the rising potential of *Metallic Glasses* at our January meeting. We were saddened with the passing of Martin in March. He was always comfortable both attending and presenting at our meetings. His insights into materials issues will be missed. Dr. Reza Abbaschian, FASM, ASM Trustee traveled from the University of Florida in February to give us an *Overview of Advanced Materials*, assess and help focus chapter operations and renew many friendships at the University of Connecticut. His visit was just what ASM Hartford needed. At our March meeting, members selected Dafei Kang (1st place, c), Jessica Shen (2nd place, r), and Hong Lou (3rd place, l) for their research presentations.



Based on the ASM vision "*To be the first stop resource for technical knowledge, education, networking and professional development for members and customers in the metals and materials community*," the Hartford Chapter's theme this year is **Build on our Strengths - Leverage our Diversity - Network to Succeed**. This is what we do best.

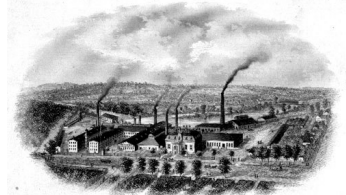
Networking to help you succeed through ASM Hartford,

Annie Grot

Executive Committee

ASM Southern Connecticut Chapter has the following this unique limited offering:

River of Brass
by Harold E. Davids



This interesting, personal history of the brass and copper industry in the Naugatuck River Valley, written and hand printed by Mr. Davids, is once again available for purchase by ASM members for the price of \$30. Orders will be taken by Jim Michel through June 15, 2004 for this special edition. The books are made to order and delivery is expected in mid-September.

The previous printing of this hardcover book by Mr. Davids sold most copies immediately. Southern Connecticut recently presented one of the final copies as a speaker gift. Do not miss this unique limited opportunity of this very special book.

Please make all checks payable to: *ASM Southern CT Chapter* and send to:

James Michel, Secretary
ASM S. CT Chapter
176 Burritt Avenue
Stratford, CT 06615

Executive Committee

Chairperson	Arnie Grot (860)	(860) 633-5849
Vice Chairperson		
Secretary	Rebecca Gatzen	(860) 667-4403
Treasurer	John Rugh	(860) 346-2433
Public Relations	Harley Graime	(860) 550-7246
Member at Large	Joe Kubinski	(860) 745-5977
Education	Jack Woodilla	(860) 827-5014
University Affairs	Nitin Padture	(860) 486-4206
Student Affairs	Leon Shaw	(860) 486-2592
UConn Scholarships	Jack Woodilla	(203) 374-7650
Membership	Jack Piela	(860) 872-9359
Past Chairmen	John Pearson	(860) 626-2542
Outgoing Chair	Stu Weiss	(860) 285-4232

Sustaining Member Companies

Consider becoming a sustaining member. For information, please contact Rebecca Gatzen, Secretary.

Bodycote Hoovan Inc	Metallurgical Services Int'l
Bodycote Lindberg Corp	Micro-Tech Optical (NE), Inc.
Conval Incorporated	Nerac
Consolidated Ceramic Products	Specialty Steel Treating Inc
Flame Treating & Engineering	Struers Incorporated
Fenn Manufacturing Co	The J M Ney Company
Grot Enterprises	The Timken Company
Jacobs Vehicle Systems	United Service Company
Lutz Associates	University of Connecticut
M&S Incorporated	Vitta Corp

Due to cost of printing and mailing, ASM Hartford will publish just one issue of the Macrogram in the fall, one winter issue and one spring issue. Therefore, it is particular important that you bookmark the ASM Hartford web site (<http://www.asm-hartford.org/>) and check it regularly for updated information. We will continue to send out email notices to those on our distribution list prior to events.

To receive an email notice of Hartford Chapter events, send an email to web@asm-hartford.org.



**ASM Hartford
Apprenticeship/Mentor Program**

<http://www.asm-hartford.org/apprenticeship.htm>

Make a difference to our profession!

- Build Leaders for the Materials Industry
- Develop Leadership Skills
- Broaden Knowledge of Materials Issues
- Network with Experts in Materials Fields
- Build Relationships

ASM HARTFORD CHAPTER
Jack Piela, Membership
68 Brimwood Drive
Vernon, CT 06066