



ASM - Atlanta

Newsletter of the Atlanta Chapter of ASM International

<http://www.asm-atlanta.org/> Meets 3rd Tuesday

March, 2002

Volume 8

Number 5

Joint Meeting of the Atlanta Chapters of ASM & SME

Society of Manufacturing Engineers

&

ASM International

Tuesday Evening, March 19, 2002

At the Georgia Tech Ferst Place Cafeteria,

Industry Night

Featuring Three Outstanding Speakers From Atlanta Area Industries

Dr. Charles Herd

Director of Marietta Labs

Columbian Chemicals

Peter Weissman,

Manager, Technical Service and Applications

Industrial Coatings of UCB Chemicals

Wayne Engeron

CEO

Engineered Alloys and Systems Inc.

Joint ASM & SME Meeting

Tuesday Evening, March 19, 2002

Please Note the Earlier Time Schedule

Wine Reception & Social: 6:00 PM
Dinner: 6:30 PM
Introductions & Business: 7:15 PM
Presentations: 7:30 PM

Costs: \$20.00 Regular, \$6.00 Students

MENU: Mexican dinner - South of the border (chicken Fajita)
Dessert bars - caramel apple, pecan chocolate chunk, chocolate raspberry and lemon. Iced tea & Coffee
Vegetarian dinner available upon request. Wine - extra charge

WHERE -- Georgia Tech Ferst Place Cafeteria, 3rd floor of Student Center Building (next to the campanile). Parking is available at the Student Center visitor parking lot off Ferst Drive.

Reservations: RSVP - by noon on Monday, March 18, to Marlene White, Tel: (404) 894-2850, Fax: (404) 294-9140, marlene.white@mse.gatech.edu

Note: If it is necessary for you to eat elsewhere, please know that you are very welcome for the program. Come & meet with your technical friends and make new ones.

Welcome SME!

This is the first joint meeting of ASM & SME. SME is the Society of Manufacturing Engineers and has many areas of common interest for members of ASM. The two technical societies have, in the past, worked side-by-side (although not together) with excellent booths at large Boy Scouts Shows at the World Congress Center. It is planned to have a joint meeting of the two societies once each year. In addition, we will try to keep ASM members aware of SME activities and learning opportunities.

Ben Harbin is the SME Atlanta Chapter Chairman

T-Tech, Inc., 770-455-0676 ext.121

mailto:benh@t-tech.com, <http://www.t-tech.com>

More SME details can be found at their chapter website <http://chapters.sme.org/061/>.

Wayne Engeron is a member of both societies (ASM & SME) as well as being the District Director of the American Welding Society (AWS). He expressed an interest in joining efforts with ASM, SME and AWS to further our societies' networking and educational opportunities.

UCB is a Belgian company consisting of three Sectors: **Pharmaceuticals**, **Films** and **Chemicals**. Each sector concentrates on specialty applications. **Pharma** specializes in anti allergens, epilepsy, & heart medications. **Films** specialty is biaxially oriented polypropylene and cellophane, while **Chemicals** specializes in "Green" coatings technologies. UCB is a global leader in two important Green coatings technologies, Powder coatings and Energy Curable coatings. These technologies are described and their benefits discussed.

Dr. Charles Herd, Director, Technology Laboratory, Heads the Marietta, GA Labs of Columbian Chemicals. He has been with CCC since 1989. He initiated his tenure with Columbian as the Manager of the Physics Laboratory in Swartz, Louisiana and then moved to Europe as Director of the European Central Lab. Dr. Herd earned a B.S. in Chemistry from Louisiana State University @ Shreveport in 1982 and received his PhD in Analytical Chemistry from Louisiana State University in 1987. He was a Post-Doctoral Research Fellow at the University of Birmingham, Birmingham England from 1987 to 1989 in the Department of Space Research, Electron Attachment and Electron-Ion Recombination. He is coauthor of a chapter on the microstructure, morphology and physical properties of carbon black in the book entitled "Carbon Black" by Donnet, Bansal and Wang.

Dr. Herd will talk about the company and the applications of carbon black. Columbian is one the leaders in the highly competitive carbon black industry, annually producing nearly 1 million metric tons of carbon black to meet global market needs. It has 12 manufacturing facilities around the world. During November 2000, Columbian became the

only major carbon black manufacturer to have all of its plants QS-9000 certified. The company's operations are located in North America, South America, Europe, and Asia. Columbian Chemicals Company is a business unit of Phelps Dodge Industries, and a subsidiary of Phelps Dodge Corporation. Phelps Dodge Corporation is the world's second largest producer of copper, the largest producer of continuous-cast copper rod, and is ranked among the world's largest producers of carbon black and magnet wire.

<http://www.columbianchemicals.com/about.asp>

Atlanta Chapter Sustaining Memberships

We are pleased to announce a new Sustaining member for the Atlanta Chapter of ASM International.

Metals & Materials Engineers, (MME) formerly the Materials Engineering Division of QORE & Consulting Metallurgical Services is an ISO 17025 audited metallurgical and materials engineering laboratory and consulting firm. Specializing in failure prevention and assurance, the MME engineering and technical staff is positioned as one of the most well respected and capable groups of its kind in the nation and worldwide. MME Departments: Metallurgical Services, Forensic Engineering, Failure Analysis, Marine Forensics, Polymers, Product Testing, Ground Penetrating Radar.

Dr. Michael E. Stevenson, Principal Metallurgist at MME, has made the arrangements. You can contact him at mstevenson@mmelab.com. MME is located at: 1039 Industrial Court, Suwanee, GA 30024, (678) 730-2000, Fax: (678) 482-9677.

Info@mmelab.com, <http://www.mmelab.com/>

Chromalloy Georgia became the first **Chapter Sustaining Member** of our ASM-Atlanta Chapter during the Spring of 2001.

Contact the Membership Committee Chair: **Dr. Jud Ready**, MicroCoating Technologies, 5315 Peachtree Industrial Blvd., Atlanta, GA, 30341, 678-287-3969; jready@microcoating.com. Your organization's commitment to this program will provide a valuable contribution to the education and development of young materials scientists and engineers.

Membership Committee Report

Jud Ready (jready@microcoating.com), Membership Committee Chairman for ASM-Atlanta, is in the process of reconciling the ASM-

Atlanta membership database. Jud asks: **PLEASE HELP HIM BY VERIFYING THAT YOUR INFO IS COMPLETE AND ACCURATE** (i.e., just because you get this newsletter doesn't mean that the data is complete and correct within the database).

To verify and update your membership information, go to: <http://www.asm-intl.org/> and select "Site Login", then select "Update Your Membership Record"

In addition, as a result of the efforts that Jud Ready has expended at the local Membership Committee level, he has been asked to join the Membership Development Committee for ASM-International. His term on this committee will begin in the fall. If you have any suggestions for improving the services that the ASM-International provides to you, please do not hesitate to contact him at:

Jud Ready, PhD, Research Scientist
MicroCoating Technologies, Inc.
jready@microcoating.com
<http://www.readymadeparties.com/jud>

April 16 Dinner Meeting

ASM Trustee, Kathleen Alexander of Los Alamos National Laboratory will be the guest speaker for this meeting.

A Message for ASM Members Who May Be Without Jobs at the Moment

The current economic times are hard on many people, but we have discovered that ASM International, indeed, does look after it's own members. We are very pleased - and proud - to inform the ASM membership about a wonderful benefit available to ASM members who are unable to renew their membership due to change in work status. One of our members reported receiving a telephone call from Phil McNaughton, Sr. Service Representative @ASM International, who said his 2002 membership dues would be taken care of due to his unemployment situation. What a super benefit! If you know of ASM members in the Atlanta chapter who are currently experiencing a job

situation and wish to continue their membership, please encourage them to inquire about this unique benefit.

Overview of the 2002 TMS Annual Meeting in Seattle, Washington

The TMS meeting ran from 17-21 February 2002 and was surprisingly well attended by upwards of 4,000 participants. The attendance was about equal to that at the 2001 meeting! However, the numbers of exhibitors was 20% below the level of the 2001 show. Several participants who I spoke with said that the number and quality of the visitors to their booths was good. They reported getting solid leads that could result in business for their company.

The 2003 TMS Annual Meeting will be held in San Diego during the period 2-6 March 2003.

As usual, the TMS Annual meeting brings in many primary aluminum industry experts. Improvements in smelting and cast house technology as well as alumina and bauxite processing were detailed. An outstanding international group was in attendance and making presentations. Not much in the product end of the aluminum business. Those sessions are reserved for the fall meeting.

The Magnesium Technology 2002 Conference attracted upwards of 80 attendees in each of the seven sessions. Topics included recent work on new high temperature magnesium casting alloys for power train applications, recycling of scrap and environmental issues, corrosion and mechanical properties, welding, wrought magnesium alloys and advances in primary production of magnesium.

The high temperature cast alloy papers, 14 touched on this topic, were of special interest to many of the attendees. Powertrain applications are looking for these improved materials for 175 and 200°C service in transmission cases and engines respectively. The automotive industry expects to have these alloys in commercial production by MY2005. The usage of magnesium alloys by the automotive industry is being driven by the need to light weight the vehicle to improve fuel economy. Magnesium is the lightest structural metal and is 1/3 lighter than aluminum and is 2/3 lighter than steel. It is also making some inroads to replace plastic components because of its improved thermal conductivity and heat resistance at moderate temperatures that soften plastics.

The Magnesium Committee of the Light Metals Division (LMD) of TMS is already planning the Magnesium Technology 2003 Conference. This is the 4th Magtech Conference and it will be held during the 2003 Annual Meeting in San Diego in March 2003.

Overview submitted by:

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International Symposium for Testing & Failure Analysis (ISTFA)

The abstract deadline is March 25th, 2002 for the 28th International Symposium for Testing & Failure Analysis (ISTFA) Conference. Details related to abstract submission & Conference are available at <http://www.edfas.org/istfa>.

Seeking abstract submissions on the following topics:

- Advanced Techniques
- Optical Probing
- Sample Preparation
- Die Level Fault Isolation
- SPM Techniques & Imaging
- Metrology & Materials Analysis
- Failure Analysis Process
- System Level Analysis
- Package Level Analysis
- Yield Enhancement
- Test
- MEMS
- Discretes, Passive
- Military

ISTFA solicits original, previously unpublished papers on a wide range of Testing and Failure Analysis topics of practical value to anyone working to detect, understand and eliminate electronic device and system failures. Non-commercial papers from equipment vendors dealing with new or unique tools and methodologies, applications and results are welcome. This year's conference will be November 3-7, 2002 at the Phoenix Civic Plaza in Phoenix, Arizona USA. We would welcome the opportunity to consider your work for inclusion in the ISTFA 2002 Symposium. Please submit your abstract (2 page minimum) via the ISTFA website: <http://www.edfas.org/istfa>.

DEADLINE FOR ABSTRACT SUBMISSION IS MARCH 25th, 2002!

For inquiries or information on ISTFA 2002, you may also contact ASM-EDFAS at: ISTFA Conference Administrator, ASM International, Materials Park, Ohio 44073-0002 (+440.338.5151) or at: <http://www.edfas.org/istfa>.

ASM Internationals 2003 Engineering Materials Achievement Award

ASM International invites your company to submit one or more nominations for the 2003 Engineering Materials Achievement Award. This prestigious award was established by ASM in 1969 to recognize achievements in materials or materials systems relating to the application of knowledge of materials to an engineering structure or to the design and manufacture of a product.

The 2003 winner will be publicly honored at the ASM Awards Dinner held during ASM's Annual Event in Pittsburgh, and will receive a certificate of achievement as well as a stylized "E" sculpture signifying engineering excellence. In addition, the winner will be featured on the cover of ASM's Advanced Materials & Processes magazine, complete with a feature article.

Does your company have an outstanding achievement in a materials or materials system that could be a candidate for the Engineering Materials Achievement Award? If so, visit <http://www.asminternational.org/content/Membership/AwardsProgram/EMAA/EMAA.htm> for complete information including rules, nomination form, list of past winners, and coverage of the 2001 awardee, Thixomat, Inc.

Nominations for the 2003 award must be received by ASM no later than May 20, 2002. Questions may be directed to Leslie Taylor, ASM Staff Liaison to the Selection Committee, at 440/338-5151, ext. 5614; e-mail: lmaylor@asminternational.org.

ASM Membership Award Pins 2002

Congratulations are due to several members of the Atlanta Chapter of ASM International for their faithful memberships over the years. Several ASM membership longevity pins were presented at earlier meetings. ASM International has now added new qualifiers based on this year. These pins will be available for presentation at the March meeting. Please come and receive the award that you have earned.

5 Year Membership:

Dave M Paul, Wayne Engeron, Kevin L. Cook, Robert Speyer, David McDowell, Kim Spinsby, Andrew Mandel, Mohsen Mehrabi, Ann Campbell, Curt Jarrell, Steven Kushnick, Wade Shadinger, Paul W. Risbin, John Murphy, Scott Lowrie, Joe Hyatte, John J. Jurick, Ramesh Ramakrishan, Barry Bennett, Karl W. McKeever, James M. Simpson, Brian Freeman, Donald Mills, Brian Foote

15 Year Membership:

William E. Rose, Michael Bowers, Gerald L. Jones, Jerald A. Smith, Finis McCarver, Naum Tselesin, Raymond K. Hart, Jasse T. Collins, Eric Trent Alexander, Michael Reid, Judson Alward

25 Year Membership:

Jerry Ezzell, Steven Danyluck, Tim W. Bolduan, James Hubbard, Pasha Ganesan

Life Membership:

Miroslav Marek & Alan T. Gorton Position Needed

Technical Sales Engineer

ASM member desires a territory or regional technical sales position. Experience includes:

- Sales engineer professional with 16 years of territory management experience in the Southeast region selling industrial capital equipment and testing instrumentation products to OEM, government, academic, commercial testing, and research type organizations.
- B.S. in Chemical Engineering.
- Experience writing and negotiating contracts, performing product presentations, ability to develop and qualify new prospects, demonstrated proficiency with the entire sales process.
- Possess excellent business and analytical skills including developing strong customer relationships and conducting a thorough customer needs analysis.

SMTA Meets March 21, 2002

Time: 5:30 PM - 9:00 PM
Siemens Advanced Assembly Technical Center
In depth plant tour with speaker Dan Baldwin, PhD.
Siemens Dematic AAT Center, 3140 Northwoods Pkwy
Norcross, GA 30071
Check site below for travel directions & reservations
<http://www.atlantasmta.com/nextmeeting.htm>

Atlanta SMTA EXPO & Technical Presentations

April 18, 2002, Courses begin at 8:00 AM

EXPO: 10:00 AM - 4:00 PM
The Gwinnett Civic & Cultural Center
6400 Sugarloaf Parkway
Duluth, GA 30097
(109 Mile Marker, Exit 108) on I-85
West side of I-85
<http://www.atlantasmta.com/news.html>

\$5,000 Grant Available from the SMTA

If you are a full time student pursuing an advanced degree (Masters/PhD) in electronic assembly, advanced packaging, or a related field then this message is for YOU! The SMTA is soliciting applications for the \$5,000 Hutchins Grant. These funds may be used to purchase books, attend technical conferences and symposiums, or for living expenses, if required. Applications must be received no later than April 15th. For complete details on how to submit your application please click on to www.smta.org/hutchins/hutchins.cfm

If you are a university professor with graduate level students, please make sure they receive this information today. The past four winners (Lehigh University, Binghamton University, Rochester Institute of Technology, and Georgia Tech) have been greatly assisted in reaching their goals via this grant.

LabVIEW 6.1 & LabVIEW Family Hands-On Seminars

National Instruments invites you to attend a FREE Hands-On Seminar in the Atlanta area to learn about the advanced features and functionality of LabVIEW 6.1 & the LabVIEW Family. These seminars are designed for engineers, scientists, and technicians who build test, measurement, process monitoring and control, or research and analysis applications. For more detailed information on these topics or to register for this seminar, go to: <http://www.ni.com/seminars/usa.htm>

The sessions are free, but seating is limited. For reservations, directions, or for more information, go to: <http://www.ni.com/seminars/usa.htm> or you can send e-mail to: <mailto:ni.register@ni.com> or call a Customer Service Representatives toll-free at (888) 444-3539. Event Location: Norcross, GA, Stress Engineering Services, Inc., 3100 Medlock Bridge Rd, Suite 420, 770-449-7887, Wednesday, March 20, 2002. 8:00 a.m. to 12:00 p.m. (LabVIEW Hands-On) 1:00 p.m. to 5:00 p.m. (LabVIEW Family Hands-On)

Features of ASM-Atlanta

- Program Notes for Meetings
- Chairperson's note to members.
- Career Development: job opportunities or jobs needed
- Company Feature:
- Technical Features:
- Education Feature: Materials course offerings.
- Georgia Tech Student Chapter News
- Member News
 - Special Events, Awards & Honors.
 - New Members
 - Deaths
 - Transitions
- ASM International News
- Advertisements
- Outreach (ASM members to Schools, Scouts, etc.)

Note: If you do not also receive this newsletter via your email, it means we don't have your email address. Please address an email message to livesay3@bellsouth.net and simply type ASM Newsletter in both subject and body. We eventually wish to migrate to much greater email distribution of the newsletter to help control costs. Thanks, BL.

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