



ASM - Atlanta

Newsletter of the Atlanta Chapter of ASM International
<http://www.asm-atlanta.org/> Meets 3rd Tuesday
October, 2000

Volume 7

Number 2

Meeting of the Atlanta Chapter of ASM

Tuesday Evening, October 17, 2000

PROGRAM

Tour of The Delta Maintenance Facility

We will meet at Malone's on Virginia Ave. at 6:00 PM, Tuesday, Oct. 17. After dinner we will drive to the Delta Maintenance Facility and begin our tour.

Rod Russell needs to have a list of people going on the tour no later than Monday, October 16. The tour is limited to 30 people. Please e-mail Rod Russell at rr63@prism.gatech.edu, or by phone at 404-894-0025, with your reservation as soon as you can.

It is simple to find Malone's. Drive towards the Atlanta Airport on I-85 to the Virginia Avenue Exit. Malone's is within about 100 yards from the I-85 - Virginia Ave. intersection on the Airport side of I-85. You should spot the Malone's sign to your right when driving on Virginia Ave from I-85.

ASM Chapter Meeting

Tuesday Evening, October 17, 2000

Dinner: \$20.00 Regular; \$6.00 Students

Reservations: RSVP - by Mon., October 16, to Rod Russell at e-mail rr63@prism.gatech.edu or via phone at 404-894-0025

Atlanta ASM Chairman's Message by John L. Mihelich

Our Treasurer, James Lane, reports that the Chapter is in good shape financially in 2000. We currently have 267 members not counting the Student Chapter memberships. Fifty-six of these are Life or Retired members. There are no sustaining or corporate members at this time but Subu Shanmugham, our Membership Chairman, is striving to

bring in several corporations during this program year of 2000-01. Your Executive Committee has earmarked the lions share of the Sustaining Members fees to be placed in the Scholarship Fund to endow this worthwhile effort. Please contact Subu if you want additional information about Sustaining Membership.

Our September dinner meeting attendees, and there was upwards of 25, enjoyed hearing about Thermal Spraying Technology as presented by our George Kremer. Additionally, the high school student, Kimberly Liverpool, who represented the Atlanta Chapter at the first Materials Camp in Cleveland, which was sponsored by ASM National, spoke to us about her experience. A very impressive young lady who learned about materials by doing and who had an excellent first experience with materials. Her report appears in this newsletter.

Our Program Chairman, George Kremer, has organized a tour of the Delta Maintenance facility at Hartsfield Airport on Tuesday, 17 October. The tour will focus more on the turbine engine work that is done at this operation. Will be of special interest to those of us who want to see and experience the practical application of materials in this very demanding environment. Details of the dinner arrangement and tour appear above.

Let me say a few words about our dinner meetings and tours. Please remember that the Chapter must make a guaranteed reservation for the number of attendees at the dinners. If you make a reservation and are a no-show, the Chapter must still pay for that meal. While we may be able to handle one or two walk-ons, the restaurant prepares only sufficient food for the reserved number and just a bit more. The best practice is to make an early reservation, come to the meeting and enjoy the evening with your friends and colleagues.

The Executive Committee has taken on the assignment to call, or email, all members several days ahead to remind you of our dinner meetings and tours. We have a goal to get the attendance up to 30+ for each and every meeting/tour. We want to see you at our Chapter activities which represent a super opportunity to network with your colleagues and get information on a topical subject. So put a note on your calendar that ASM Atlanta has a gathering the 3rd Tuesday of every month. See you there!

Report on Materials Camp by Kimberly Liverpool

Kimberly Liverpool has prepared this report describing her enjoyable learning experience at the first ever ASM International Materials Camp in Ohio. Kimberly was recommended for Materials Camp by the **ASM-Atlanta Chapter** based on her academic achievements and interest in science and engineering. You should recall that Kimberly is an 11th grade student (junior) in the Magnet Science program at Columbia High School, in Decatur, Georgia. She has excellent academic credentials (4.00 GPA), maintains a strong interest in science, and has been an active participant in the science Olympiad at the school, county, and regional events.

Kimberly's Report: I have only positive feedback to give regarding ASM's Materials Camp 2000, which was held in Ohio this past summer. The whole experience proved to be informative, exciting, and enjoyable.

The participants at the camp were 30 students in number; all juniors, seniors and recent graduates from high schools from all over the country and Canada. We stayed at a Holiday Inn not too far from the amazing ASM International HQ facility with the geodesic dome in which we did our daily activities. At the facility, we worked in

groups on hands-on projects with elite mentors. All the projects involved the failure analysis of various metal objects from situations in which they actually failed during use. For instance, my group's project, which I recently shared with some members of the ASM Atlanta Chapter, included the failure analysis and solution for rectification of brass rivets used by Caterpillar in break pads in one of their machines. The facility was equipped with state-of-the-art apparatus including SEMs, which we were actually allowed to use to aid in the completion of our projects!

However, our time in Ohio was not only all work and no play. We also had the opportunity for evening social activities. We toured the Rock and Roll Hall of Fame, had the privilege to tour the entire, recently renovated Brown's Stadium, we attended an Indian's game, and even got the chance to experience Six Flags in Ohio. All the participants enjoyed the social activities which allowed time for us to bond as the first Materials Camp participants. On the last day of the camp, we gave presentations of our various projects to an audience of honored guests from the ASM foundation. Later that day, we had a memorable graduation ceremony where we were given certificates and had a dinner following in which we mingled and met with members from our respective chapters.

To conclude and summarize, I went to this camp without prior knowledge of this field of engineering, as did many other students, and came back with a positive outlook and a great deal of information regarding the subject. Overall I rate this camp very highly, all participants were well received, well taken care of, and well educated during the time allotted. I highly recommend that this camp be continued so that other students would be allowed a fascinating experience as we, the first group of this camp, participated in this past summer.

If you require further information please feel free to contact me at ckiml@excite.com.
Sincerely, Kimberly Liverpool.

Sustaining Membership

For details, contact **Subu Shanmugham** MicroCoating Technologies, Inc. 3901 Green Industrial Way, Chamblee, GA 30096, 770-457-7767 ext: 117V: 770-457-8480F; subu@microcoating.com

Member News:

Welcome to New Member, Richard Schreimann

Meet **Richard Schreimann** of PCI/PrattWhitney of Columbus, Ga. He has transferred his ASM membership

to the Atlanta Chapter from the Dallas Chapter where he was involved with their Education Program, including bringing in MEI courses and the like.

Best Wishes to Departing Member Rod Russell

Rod Russell has contributed much to ASM over the last several years. Currently he is serving as Communications and Web Site Director. In November, Rod is going to start a new job at the Institute for Advanced Technology at the University of Texas in Austin, Texas. He will be working as a Principal Investigator on projects to develop and support a new tank for the US Army. Rod says "I have greatly enjoyed my time in the Atlanta ASM, and will miss the monthly meetings. I look forward to seeing you in the future (and on the Delta tour)". In addition to this move being an extraordinary career opportunity, for Rod, he is also "going home"; Rod has significant roots in historic Texas. We all wish him well.

Materials Positions Available

SEM Technician Needed

An SEM and materials characterization technician is needed in the Atlanta area. This person will be an R&D team member responsible for day-to-day operation and maintenance of analytical instruments. Includes sample preparation, microstructure analysis and organization and reporting of data. Provide microstructure process analysis to support production line. Please contact Jean Dunaway at 770/384-0427.

Materials Engineer/Metallographer Needed

Materials Engineer/Metallographer needed by materials testing and consulting firm. Opening in Atlanta area. B.S. Materials Science and 2+ years minimum experience required. EIT/PE preferred. Must exhibit excellent communication skills and computer skills. Fax letter, resume and salary history: 770-424-6415 or mail: James Lane, ATS, 1190 Atlanta Industrial Drive, Marietta, GA 30066. E-mail: jlane@atslab.com

ASM MEI Courses to be Offered in Atlanta

"Practical Heat Treating of Ferrous Alloys" & "Failures of Shafts, Bearings, Gears & Fasteners"

Class hours will run from 10:00am - 5:30pm;

30 October thru 1 November, 2000. Cost is \$1035 each or \$885 for ASM members.

Contact: John Mihelich for more details and application forms at 770-942-7893 or email to yodonna@aol.com

ASM International Calendar - 2000 <http://www.asm-intl.org/>

26th International Symposium for Testing and Failure Analysis 12-16 November, Bellevue, Washington

ASM-Atlanta Features

- Program Notes for Meetings
- Chairperson's note to members.
- Career Development: includes job opportunities or jobs needed
- Company Feature: Short description of what a particular company does - that is informative to other members - not just an advertising item
- Technical Features: Short (one page or less) descriptions of an interesting technical or scientific materials topic - could be from either a manufacturing or research development.
- Education Feature: Materials course offerings.
- Georgia Tech Student Chapter News
- Member News
 - Special Events, Awards & Honors.
 - New Members
 - Deaths
 - Transitions
- ASM International News
- Advertisements: Essential for increasing usefulness.
- Materials Courses (for Members & Others)
- Outreach (ASM members to Schools, Scouts, etc.)

Please contribute information for inclusion in the News Letters. For example, you may contribute a short (one page or less) technical item which would be of interest to your fellow members - or suggest who might write an article. You may want to say something about the work of your organization or company that would be of interest. "Letters to the Editor" are welcome. Have you received an honor, recently published an article, been promoted, moved, etc.?? Let us know!

Also, consider advertising in this Newsletter, our Web Site and the Membership Year Book. Inform others of your services while helping to underwrite the costs for printing and mailing and of maintaining your Web Site. Please contact Bill Livesay (b.livesay@gtri.gatech.edu) for both ads and news input for the next *ASM-Atlanta*.

Quotes: "If I have ever made any valuable discoveries, it has been owing more to patient attention, than any other talent." -Isaac Newton

"The work of science is to substitute facts for appearances, and demonstration for impressions." -John Ruskin

"There is one thing even more vital to science than intelligent methods; and that is, the sincere desire to find out the truth, whatever it may be." -Charles Sanders Peirce

"Facts do not cease to exist because they are ignored."
-Aldous Huxley

"I cannot give any scientist of any age better advice than this: the intensity of a conviction that a hypothesis is true has no bearing over whether it is true or not."
-Peter Medawar (1915-1987) English zoologist

"It is the tension between creativity and skepticism that has produced the stunning and unexpected findings of science." -Carl Sagan

Atlanta ASM Chapter Officers

Chairman: **John L. Mihelich**, Metal Experts International, 7440 Mason Falls Drive, Winston, GA 30187,
770-942-7893V; 770-942-0922 F, yodonna@aol.com

1st Vice Chairman: **Kim B. Spinsby**, Siemens Energy and Automation, 100 Technology Dr., Alpharetta, GA, 30005,
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2nd Vice Chairman(Programs) **George W. Kremer**
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Secretary: **Gautam R. Patel**, Georgia Tech Research Institute, Bldg 78-H, Area II, Atlanta, Georgia 30332
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GT ASM Student Chapter President: **Ben Church**, Georgia Tech Student Chap President, Graduate Student, Materials Science & Engineering, Atlanta, GA 30332-0245
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Past Chair: **Naresh Thadhani**, Georgia Tech Mat. Eng. & Sci. Dept., Atlanta, GA 30332-0245; 404-894-2651V; 404-894-9140F, naresh.thadhani@mse.gatech.edu
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