Chair’s Message

This fall, your Executive Committee had two executive meetings in quick succession, to discuss various ways to craft chapter activities that match the expectations of our materials community at all levels. Encouraged by Chapter achievements last year, many executive members quickly agreed to continue their responsibilities in the current year.

Committee Chairs signed on and a broad outline of technical programs was agreed upon in the following key areas:

- Membership Retention and Recruitment
- Student Outreach
- Communications
- Innovative Programming
- Young Professional Engagement

With actions and responsibilities outlined, specific actions and time frames will be established in successive Executive Committee meetings.

The “Best Suggestion Award” has been established by the Executive Committee. I strongly encourage you to send your suggestions, keeping in mind the above focus. You can email your suggestions to Barry Greene, Secretary at bgreene@mti-global.org or me at punjsatish@yahoo.com.

The second Executive meeting was held with ASM International Trustee Dr. Linda Schadler, FASM. Dr. Schadler not only provided guidance on future activities but also requested support from ASM Headquarters on chapter concerns. Already, Headquarters staff has gotten back to us to coordinate efforts, in their typical cooperative style.

Our Chapter has continued to operate at a high level in recent years, despite the fact that membership has dropped to about 500 members. This is a reflection of the loss of many traditional manufacturing and research operations from our area. Accordingly, we are reaching out to young members and newer industries where materials professionals are involved. While the executive (Continued on page 4)
Historical Fe-based Objects

Speaker: George Vander Voort, FASM, FASTM
Vander Voort Consulting

Aside from some use of meteoritic iron by ancient peoples, most Fe-based artifacts prior to the late 19th century were made from wrought iron made by the bloomery process. The Iron Age began in ~2000 BC. Cast iron was first produced in China during the Han Wei period (206 BC to 534 AD); this was a form of malleable iron apparently made by high temperature heating of white cast iron, which has been called “spheroidal” graphite cast iron, although it contained neither Ce nor Mg. Cast iron production in the West can be traced to about the 1st century AD. The Chinese developed the first blast furnace with a vertical acting bellows by 1313 AD while the first blast furnace in the West was developed in Italy in 1463 AD.

The talk will illustrate the microstructure of Roman nails, knives made in Poland between the 6th and 9th centuries AD, 16th century Japanese swords, helmets made in Japan (17th century) and Europe (18th century), as well as some post Industrial Revolution iron and steel, e.g., structural steel from the Brooklyn Bridge, structural steel from the Palm House at Kew Gardens, steel from the Tay Bridge, deck plate from the SS Nomadic, a tender for the Titanic, and steel used in the USS Arizona.

George Vander Voort, principle engineer of Vander Voort Consulting L.L.C., is a graduate of Drexel University and Lehigh University with a background in metallurgy and materials science and 29 years experience in the specialty steel industry. A past president of the International Metallographic Society and past chairman of ASTM Committee E-4 on Metallography, George has six patents and over 300 publications including Metallography: Principles and Practice (McGraw-Hill, 1984; ASMI, 1999) and the ASM video course, Principles of Metallography. He served as a trustee for ASM International, and is a member of several ASMI committees. He is vice president of Alpha Sigma Mu honorary scholastic society. He is a member of the editorial board of...

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ASM International
Metro NY – NJ Chapter
2011-2012 Chapters of Excellence
Award Essay
Submitted by: Veljko Samardzic

Part Two

We are continuing our tradition of supporting and co-organizing Materials Teachers Camps. This summer we are hosting the second New Jersey Institute of Technology Teachers Materials Camp. We are already exploring the initiation of a Materials Teachers Camp at New York Polytechnic University.

Our Chapter has a tradition of well tailored technical programs. We hold seven technical meetings each year including a plant tour. Topics included both new materials technologies (composite materials) and broad interest subjects (semiconductors). By surveying our membership, we identify topics of greatest interest. Technical meetings are held at several venues around our region to attract attendance by our widely spread membership.

This past year we made additional efforts to fully integrate Student Materials Advantage Chapters and emerging professional members into all aspects of our Chapter’s operations. The winning formula is the synergy of the youthful enthusiasm of incoming generations with the wisdom of our older members (more than one third are Life Members).

We have taken a number of steps to implement our goals:
• Free meals for students at meetings increased attendance by students from Rutgers, and NJIT
• Local college featured at each meeting and in bulletin
• Presentation by Chapter officer at regional university (NJIT)
• Continued support for NJIT Teachers Camp
• Promotional initiative to revive NJIT Materials Advantage Chapter
• Meeting for 2012-2013 again scheduled at Rutgers

(Part Three will appear in the next issue)
members are doing everything possible, the key to success is your support. Please speak to your professional colleagues and friends. You may contact Michael Gershkovich by email, MichaelG77@comcast.net, or meet him during technical meetings for enrollment and benefits information.

It is rewarding to see active participation of students in every technical meeting. We have added positions on our Executive Committee from the student community. We also have professors from NJIT and Polytechnic Institute of NYU as very active executive members. Students are encouraged to join us in large numbers at the Technical Meetings. Dinners are free for students at Technical meetings outside their own campus.

Have you visited our website lately? Have a look! Dr. Sherman is at the helm of affairs now. He is updating the website regularly. See the changes.

Another Materials Camp for High School teachers is planned during the summer of 2013 at NJIT. We are asking teachers who participated in earlier camps to please relate your wonderful experience to your friends in the profession. We shall welcome more participation in the new session. Watch for announcements.

The November Technical Meeting is scheduled on Tuesday the 27th, at 6:15 PM, at L’Affaire. The speaker is a metallographic expert recognized worldwide, Dr. George Vander Voort. Come, meet Dr. Vander Voort and listen to a most interesting talk on "Historical Fe-Based Objects". All High School Teachers who attended the ASM/NJIT Materials Camps this summer and last summer are especially invited to attend.

Satish Punj, Chairman, 2012-2013 ASM Metro NY NJ Chapter

Directions to L’Affaire
1099 Rt. 22 East, Mountainside, NJ
908-232-4454 www.laffaire.com

NJ Turnpike, North & South Exit 14
Follow signs to Route 22 West. Take Route 22 West 10 miles. You’ll see L’Affaire on your left. Go an additional 1 mile to “U” turn (stay in left lane). Drive east 1 mile to L’Affaire.

Route 78, East to Exit 45
Exit reads Glenside Ave. Turn left at light go 1.1 miles to stop sign, make a sharp right turn onto Baltisrol Rd. (becomes Summit Rd.) Continue for 2.5 miles to Route 22 West. Go 1 mile to “U” turn (stay in left lane). Drive east 1 mile to L’Affaire.

Route 287, North or South

Chair’s Message
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