Greetings Materials Engineers:

Our Family Event on Sunday, May 22, 2016, is special. We will tour The Long Pond Ironworks, starting at 2:00pm at the Visitors Center and Museum. The site is located on Greenwood Lake Turnpike (Rt. 511) in West Milford, NJ, within Long Pond Ironworks State Park. Further information starts on pages 2 and continues to page 4 with directions.

All are encouraged to attend and to bring family and friends. Children are welcome. Please make reservations with Dr. Richard Lynch at Richardflynch@aol.com or call: 201-891-8399 so we can plan accordingly.

I am looking forward to this event, as this will be the first time I will be at an old ironworks without being shot at! An explanation is due. When I was an undergraduate in Physics at Cooper Union, the college owned land adjacent to the present day Ringwood Manor State Park. One afternoon, another student and I crossed the hills into the old forge and iron works area between the present day Hewitt Mansion and Sterling Forest. We crossed from the former Cooper Union property over a couple of Hills and went up a hill and did some rock climbing. From the tallest hill in the area, there are some great views of the reservoir. We planned to go down into the abandoned ironworks; but someone started to shoot into the hills – likely target practice! Once they saw us, they stopped and waited until we left. We skipped the ironworks walk. This was not the Long Pond Ironworks and I look forward to a more peaceful afternoon.

New Jersey has a rich history in this area, from the revolutionary war on past the Civil War and later as a metal working area. The old Hewitt works was involved with the revolutionary war, as was the Long Pond Iron works. This site dates back to 1766, quite a long time in American History.

This is my last message as Chair for the Metro New York New Jersey Chapter. I wish Larry Abernethy the best of luck as our Chair starting in July. It has been my pleasure to try to serve our community and the challenges we face. This includes arranging technical meetings of interest, and we wish for input from members on subjects. If you are interested in a certain vendor or topic, we might be able to arrange a talk or demonstration. We have a schedule for Fall 2016 – 2017 for speaker dates but have not set speakers as yet. Please assist!

Bernie Lee
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The Metro NY-NJ Chapter thanks these companies for their ongoing support.

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Special Family Event:

Tour of Long Pond Iron Works

Time: 2:00pm
Place: Long Pond Iron Works

Directions are on page 4

FREE to all — Members are encouraged to bring families & guests
Children are welcome

★ Please let us know how many will be coming ★
Email: RichardFLynch@aol.com or call 201-891-8399

Our Plant Trip on Sunday, May 22nd will be a tour of Long Pond Ironworks, founded in 1766 and operated continually until 1882. Its history tells a fascinating tale of ironmasters who built and developed the iron industry in the Highlands and is a microcosm of our industrial and cultural heritage. The village and furnaces at Long Pond produced iron for the Continental Army during the Revolutionary War, for the American forces in the War of 1812, for the Union Army during the Civil War, and for a wide range of other purposes.

Within the 175-acre Long Pond Ironworks Historic District lie the ruins of three iron blast furnaces, including the original Colonial-era furnace and two larger furnaces built for Civil War production; evidence of iron forges; remains of waterpower systems; and a variety of buildings that were a critical part of the ironworking village.

Long Pond Ironworks were founded in 1765 by Peter Hasenclever and operated continually making iron for a wide range of purposes until 1882 when the ironworks was bankrupted by newer facilities in Pittsburgh. Hasenclever brought ironworkers and their families from Germany to build an ironworks “plantation”. The remnants of the ironmaking structures at the district date from the 18th and 19th centuries. The Ironworks was a company town which at its height housed about 250 people and contained about 110 buildings and structures. Long Pond illustrates the evolution of ironmaking technology, as shown in the remains of the three successive furnaces, the ore roaster and the hydropower systems.

The museum inside the renovated Old Country Store contains interpretive displays, artifacts and relics from the furnace area and ironworkers village. Photographs and artifacts help illustrate how the area looked and what life was like in this industrial complex. Long Pond Ironworks is listed on the State and National Registers of Historic Places and has been designated a National Historic Landmark.

(Continued on page 4)
The Materials Camp Teachers program strengthens the curriculum in Science, Technology, Engineering and Mathematics (STEM) at the secondary level. By introducing teachers to the engineering professions through Materials Science, we influence students for years to come. Materials Science excites students’ interest because the student has every day, hands-on experience with materials. Thus, materials topics are great motivators in any engineering, technology or science course. Materials are also a very important and an integral part of the manufacturing process.

This international program is offered by the ASM Materials Education Foundation, in fulfillment of its Mission: "To excite young people in materials, science, and engineering careers." Since 2002, ASM Materials Camps have introduced thousands of high school teachers to hands-on learning about the role of materials in our daily lives. These week-long professional development workshops are held on college campuses, high schools and community colleges throughout the United States and Canada during the summer.

During the one-week workshop, teacher participants learn the basics of Materials Science Technology as taught at the high school level. They work hands-on with metals, ceramics, polymers and composites, and develop a greater appreciation for the importance of these materials to modern life. The teachers see how this heavily project-based course excites students to learn science concepts as they complete projects of personal worth to them. Whether teachers use the information and concepts as a basis for teaching their courses or merely infuse the concepts into an existing science course to increase relevancy, they finish the week prepared to make some important instructional changes as a result of their participation.

Get involved — To learn how you can assist with, sponsor, contribute to, or otherwise participate in upcoming Teachers Materials Camps, please email Dr. Roumiana Petrova, NJIT at: roumiana.s.petrova@njit.edu

Keep your member info current

Be sure to periodically check and update your member info at ASM Int’l Headquarters and include your current email address so that you can stay informed. To make changes, simply login to your member account at the ASM International website, or call ASM member services at: 800-336-5152 Monday -Friday, 8:30am - 5:00pm.

Chair’s Message

(Continued from page 1)

I also want to remind you that the Teachers Materials Camp still needs help with funding. (See the article to the left on this page.) Please contact Prof. Roumiana Petrova at roumiana.s.petrova@njit.edu.

It takes about 10K to make the camp a success, and any and all donations will help. The impact of helping one science teacher is multiplied many times since one teacher can influence many, many students.

Wishing Larry the best of luck, I bid adieu.

Dr. Robert Sherman,
Applied Surface Technologies
Chairman, ASM Metro NY-NJ Chapter
roberts@co2clean.com

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May 22, 2016  Tour of Long Pond Ironworks

(Continued from page 2)

The historical value of Long Pond Ironworks is paralleled only by its natural beauty. The forests that were once cut down to make charcoal for the furnaces have returned, and the river that was once diverted into the hydropower systems again cascades over ancient rock formations. Long Pond Ironworks is listed on the State and National Registers of Historic Places and has been designated a National Historic Landmark.

It is located in West Milford (Hewitt section) NJ on the shore of Monksville Reservoir. It is a 15 minute drive off the I-287 exit 58 for Ringwood, NJ over Skyline Drive.

Parking is available in front of the Visitors Center.

Visit the website at: www.longpondironworks.org

Directions to Long Pond Ironworks

The Long Pond Ironworks Visitors Center and Museum are located on Greenwood Lake Turnpike (Rt. 511) in West Milford, New Jersey, within Long Pond Ironworks State Park.

From Route I-287 Northbound - Take Exit 55. At the end of the ramp make a right heading north on Ringwood Ave. (Rt. 511). Stay on Ringwood Ave./Rt. 511 for almost 11 miles through Haskell, Wanaque and all the way around Wanaque Reservoir and past the Monksville Reservoir dam. Cross over the Monksville Reservoir causeway. Long Pond Ironworks Visitors Center is on the right.

From Route I-287 Southbound (from NY State Thruway) - Take Exit 57 (Skyline Drive). Follow Skyline Drive to the end. At the fork intersection with Route 511 (Greenwood Lake Turnpike) turn right onto Route 511. Follow directions above.

From Rt. 17 (Mahwah area) - Take Rt. 17 North into NY and take the Ringwood/West Milford exit (Rt. 72) which is just before Sloatsburg. Go 5.2 miles and turn right onto Margaret King Ave. at the ballpark on your right. Go 2.5 miles to the end and make a right onto Greenwood Lake Tpk. (Rt. 511). Follow directions above.

From Rt. I-80 (New York City) - Take GWB to Rt. I-80 West to Exit 53, (Rt. 23 North). Take Rt. 23 approximately 7 miles to Rt. 287 North. Follow directions above.

From Rt. I-80 (PA and points west) - Take Rt. I-80 East to Exit 43 onto Rt. 287 North. Follow directions above.

From Route 23 - Take Union Valley Road (Route 513) about 6 miles and bear right onto Marshall Hill Road, which becomes Greenwood Lake Turnpike (Route 511). Long Pond Ironworks Visitors Center is on the left.

Please email Info@LongPondIronworks.org if the above directions are not helpful or if you have other questions. FOLPI Information Line (973) 657-1688.

Web Site: www.longpondironworks.org
At the Meeting  March 15, 2016  at Meson Madrid

“Building the 9/11 Memorial Monument”

Joe Moretti, Jr., co-owner of Service Metal Fabricating, Rockaway, NJ, gave an excellent presentation concerning the innovative fabrication techniques and materials that were used in building the 9/11 Memorial Monument.

(Above L-R) Chapter Vice-Chair Larry Abernethy, BASF, presents March Speaker Joe Moretti, Jr. of Service Metal Fabricating with an Award of Appreciation on behalf of "Building the 9/11 Memorial Monument"

Were You There?

Photos courtesy of Dr. Richard F. Lynch, Lynch & Associates

Election Results

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Have a wonderful summer!

2016-17 Season First Meeting: Tuesday, September 20, 2016