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We also had to change our meeting venue. At the end of 2013, our long time meeting location of Vladimir’s in Farmington Hills decided to close. It was a bit of a scramble to find a new location and we decided to try several different places, including Farina’s Banquet Center, the Livonia Marriott, and the Gazebo. Julie solicited input from our members and most people really liked the new locations and added additional locations along the way. I think this is a good way to reach out to people living in all parts of the Detroit Metro area and Ann Arbor.

We had another year of excellent programming, thanks to Vice-Chair Manish Mehta. We kicked off the chapter year with an excellent presentation from ASM President Professor Ravi Ravindran. We had subsequent presentations from Mike Finney, President and CEO of the Michigan Economic Development Corporation, Prof. Pravansu Mohanty from the University of Michigan, Dearborn, Thomas Mueller, Director of Rübig Engineering, and a joint ASM/APS presentation from Dr. David E. Cole, Chairman Emeritus, Center for Automotive Research. We finished the chapter year with our annual honorary Woodside Lecture, presented by Dr. Stephen LeBeau, Chief Technical Officer and President nanoMAG, LLC, CEO Thixomat, Inc.

We also had a successful University night in November at Conor O’Neill’s in Ann Arbor with over 30 attendees, and continue this tradition to today. We used to have a poster event at the University of Michigan but over the years, participation dwindled. Our Material Advantage student representatives suggested it would be better to have a “Student Mixer” and we had much better participation. Perhaps it was the two drink tickets with heavy appetizers for $5 that appealed. We received feedback from students and professionals that it was a good networking event in a relaxed environment.

At the end of the 2013-2014 season, the chapter received an ASM essay award for “Excellence in Communications.” Overall, I think the Executive Committee of the ASM Detroit Chapter did an outstanding job keeping everything going in a year of many changes. We are lucky to have so many talented people willing to volunteer their time for a noble cause: promoting the free exchange of metallurgical information.
Before I discuss the Chapter’s accomplishments, I would first like to thank the Detroit Chapter Executive Board, whose continued efforts made this a successful year and one that will serve as a foundation for years to come. I have listed the Officers and Committee Chairs below but would like to especially recognize the following individuals.

My sincere thanks and respect for Peg Jones and Kathy Hayrynen, who have demonstrated their leadership and dedication to the ASM Teachers’ Camp held in Ann Arbor in July, 2015 as well as organizing the ASM Mini Camp held on October 21–22, 2015 during the ASM Heat Treat Society Conference and Exposition.

My very appreciative thanks to James Boilou for organizing the Chapter awards for the 2016 Future Cities Competition and the 2016 Metropolitan Detroit Science Fair and for organizing the Chapter scholarships for teachers and students.

Thanks to Jason Coryell for his continued dedication to the Chapter and participation as the Chapter Council Representative.

And thanks to Julie Nimer for her continued service as the Chapter Administrator.

This was a busy year for the Chapter as shown by the following notable accomplishments during the 2015 to 2016 academic year.

• We sent two representatives to ASM International Leadership Days in July. During the meeting the Detroit Chapter received the ‘Innovative Programming’ Chapter of Excellence Award (Category IV) from ASM International.

• Assisted with the 2015 Teachers’ Camp in Ann Arbor, Michigan in July.

• Co-hosted the ASM/AFS Golf Outing at Fellows Creek in August. Documented the process for organizing future golf outings.

• Held Student Night in Ann Arbor, Michigan in September.

• Held an ASM Mini-Camp in October during ASM Heat Treat Society Conference and Exposition that hosted 72 high school students from schools in the Detroit area.

• Hosted six technical meetings with recognized speakers covering a diverse materials and processing topics.

• Awarded the ‘Best Use of Materials’ award for the 2016 Future Cities Competition in January.

• Established the Yearbook Committee and documented the process for developing and publishing yearbooks.

• Awarded ‘Best Use of Materials’ award for the 2016 Science and Engineering Fair of Metropolitan Detroit in March.

• Recognized Manish Mehta for his service to the Detroit Chapter during the ESD Gold Awards in March.

• Developed and approved the Chapter’s 2015 – 2019 Strategic Plan in May.

You have probably noticed that sprinkled amongst the accomplishments are some administrative accomplishments. The Chapter has done a great job at documenting recurring activities, such as the golf outing, publishing yearbooks, awarding scholarships, etc. The Chapter is blessed with a skilled staff but since the Committee Chair and Officer positions are transitory, the Chapter must make sure it has robust procedures to facilitate officer and committee chair transitions and ensure high quality services to the Chapter and community.

The Chapter By-Laws govern the Chapter’s operations and outline the structure of the Chapter Executive Committee. The Chapter Strategic Plan is an addendum to the By-Laws and provides a five year roadmap for each of the nine standing committees. This year the Executive Committee updated the Strategic Plan with the following objectives; to 1) assist the Nominating Committee in seeking out candidates to serve on the Board by having detailed Committee responsibilities, 2) facilitate the transition in Committee Chairs when needed, 3) provide continuity in initiatives that span more than one academic year, and to 4) providing a means of assessing the Chapter’s progress to its goals. I am quite pleased that the Chapter took on this initiative and published the 2015 – 2019 Strategic Plan in May 2016.

As my parting comments, I thank the ASM Detroit Chapter Executive Committee, the Sustaining Members and Chapter Members for your continued support this year. I am honored to have served as Chair and I look forward to seeing you a future ASM Detroit Chapter meetings.

“Dr. Mehta” continued

for ASM Materials Camp teachers to purchase classroom supplies related to STEM.

• ASM Detroit Chapter Meetings were held in 2014-15 at multiple locations across Metro Detroit to draw members to events as far west as Ann Arbor, north as Pontiac and east as Warren. We were enriched by the following six distinguished speakers on highly relevant topics:


  o November 10, 2014 – Dr. Sunniva Collins, ASM International President addressed the Chapter on “Orbital Welding for Critical Applications,” as well as an update on ASM International. We also hosted Dr. Collins at the Park Metallurgical/HeatBath facility to view Bill Woodside’s legacy showcase of heat treating and black-smithing tools.


“Dr. Mehta” continued on page iv
“Dr. Mehta” continued

- March 9 – John Freeman and Sarah Mulkoff of the Great Lakes Renewable Energy Association spoke to our membership about the need to raise Michigan’s reliance on renewable sources of energy.

- April 13 – Hosted by DASI Solutions (Thank you, David Darbyshire and Kae Trojanowksi) at their 5000 sq ft 3-D Printing Studio in Pontiac, with John Dobsteter of Stratasy as speaker on the topic “Additive Manufacturing,” which I was pleased to co-chair it with my APS counterpart Paul Jones.

- On May 11, 2015 The Woodside Lecture (a tradition begun in 1943 with Charles Kettering as the first Woodside speaker) was delivered by none other than my mentor Dr. Robert McCune on the topic of “Accelerating Materials Innovations.” The ASM Detroit Chapter is blessed with many technically accomplished members, and the Board and Programming team are always challenged each year with selecting a member deserving of this recognition. I was especially pleased that karma helped us come full-circle to Bob, since he originally recruited me in 2007 to serve on the ASM Detroit Special Programs Committee.

- Thanks to the generosity and initiative by our own ASM International Past President Dr. Ray Decker, the Chapter worked with the ASM Educational Foundation to organize a scholarship program with Macomb Community College, and new materials courses through the Lightweight Innovations For Tomorrow (LIFT) Center to train industry and professionals.

- Dr. James Boileau (Chair of Young Members/Student Affairs) is commended for streamlining the student scholarships applications, online reviews and rankings entirely using the web – 32 applications were received. The Chapter’s two $1500 undergraduate scholarships were awarded to Emily Burgess of University of Michigan and Janine Erickson of Michigan Technological University.

- The 8 Chapter members (led by Dr. James Boileau) who volunteered for the 2015 ESD Future Cities Competition selected Henderson Academy as the winner for “Best Use of Materials Award.” At the Detroit Science and Engineering Fair held March 11, the top winners on materials-related projects selected by ASM’s 4 judges were Ayesha Khanam of Cass Technical High School, Maximillian Ochocinski of Good Counsel Middle School, Ella Lawson of Divine Child High School and Meghan Rotole of Our Lady of Good Counsel Middle School. Thanks to Dr. Gerry Cole, Dr. James Boileau, Mark Harper and Eric McCarty for sparing time as judges.

- Vice-Chair Eric McCarty took charge of liaising with long-term ASM Mini-Materials Camp volunteers Peg Jones and Kathy Hayrnen, and ASMERT staff, and spent several months to organize a 2-day Mini Heat Treat Camp that introduced nearly 400 Detroit area high school students to the materials science, metallurgy and manufacturing professions. Our gratitude goes to Eric McCarty for his leadership and contribution of time and ASM Detroit Chapter Board and industry staff that volunteered.

- In the spring of 2015, the Chapter voted to add two new Board members, Alex Preiser (Papers and Programming) and Tim Stachowski (Entertainment Committee) to assist and transition Brad Hall and Mike Blazejewksi, respectively.

- Thanks to Membership Committee Chair Dr. Urban De Souza, who performed detailed analytics of our nearly 1000 members, we were able to use the results and his recommendations to try new member recruitment and engagement strategies.

- Past Chapter Chair Thomas Kozina ably represented the ASM Detroit Chapter in ESD’s regular Affiliate Council programs, and kept us informed of new programs and opportunities.

- The Annual ESD Gold Awards Banquet was held on March 11, 2015, and the Chapter’s honoree was immediate Past Chair Dr. Sue Hartfield-Wünsch.

- We are proud that our candidate Dr. Sue Hartfield-Wünsch, was selected to serve on the ASM International Nominating Committee in April 2015.

- On the international front, I was an invited speaker on “Strategies for Accelerating New Materials into Sustainable Commercial Applications” at ASM India’s International Conference on Materials Engineering Technology and Heat Treat Show held December 4-6, 2014 in Gandhinagar, India. With the distinguished company of ASM International Past Presidents Dr. Ravi Ravindran and Dr. Christopher Berndt, I shared the privilege of presenting ASM’s 100+ year Detroit heritage begun by Bill Woodside to inspire materials professionals, faculty and students from across India.

- I thank Board member Kae Trojanowski and Jerry Singh of RTI Laboratories for hosting the January 2015 Board post-holiday celebration at RTI’s testing facility in Livonia as well as the April 13 social hour at DASI.

And now for my year’s crowning glory, (drum roll please)… The ASM Detroit Chapter applied for and was awarded ASM International’s 2015 Historical Landmark Award in recognition of the manufacturing location of Park Metallurgical/HeatBath in Detroit, which was built by Steel Treaters Club Founder William Park Woodside, as a product development and manufacturing facility for pack carburizing compounds. I was thrilled when I learned the news of the HLM selection in June 2015 of ASM’s long overdue recognition for this modern day protégé of Hephaestos, the Greek God of blacksmiths, craftsmen, artisans, sculptors and metallurgy, who was worshipped in the manufacturing and industrial circles of ancient Greece. Hephaestos’ symbols are a blacksmith’s hammer, an anvil and a pair of tongs – these same tools once made by Woodside are on display at the Park Metallurgical/HeatBath facility in Detroit. In November 2015, Jon Tirpak, ASM International President for 2015-16 formally presented the HLM’s impressive bronze plaque to our Chapter leadership. Due to the imminent closure of the Park/HeatBath facility in Detroit, an appropriate permanent location for public display of the plaque is presently being identified by the Chapter.
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The History of ASM International

In May 2013, ASM-Detroit celebrated ASM-Detroit and ASM-International’s 100th Anniversary. Recognizing that in a dynamic industry there was a need for the transfer of previously jealously-guarded trade secrets; William Park Woodside set out to organize a club which would stimulate a mutual exchange of ideas. On October 4, 1913 William Park Woodside called the first meeting of the Steel Treater’s Club at the old Fellowcraft Club in Detroit. The meeting was attended by a group of 18 men who started sharing metallurgical and technological advances.

In 1915, the group began admitting technical members. In 1918, the name was changed to the Steel Treater’s Research Society of Detroit and the very first standards activities were started. This effort led to publications that described the proper heat treatment practice necessary to produce the desired physical properties in steels. The club prospered and within 5 years had over 1,200 members.

By 1919, the group had expanded to 13 states with 236 members and the exchange of information between the members was growing. In the following year, Col. Albert E. White of the American Steel Treater’s Society of Chicago combined his group with the fledgling organization and the name of the Society was changed to the American Society for Steel Treating. In 1933, the name was changed to the American Society for Metals which remained the same until 1987 when it was changed to ASM International.

In 1938, the silver anniversary, William Park Woodside was named president of the society. Bill Woodside served ASM for over 43 years. His life span covered a period of great technical advancements to which he contributed much. Of all his many accomplishments, he was proudest of the role he played in spreading of knowledge. ASM International is a living monument to the basic integrity of his idea. The annual Woodside Lecture serves to remind us that one of the prime purposes of ASM is to promote the free exchange of metallurgical information.

Throughout our 100 years, ASM-Detroit has grown, prospered and adapted to industry ups and downs. Emphasis has remained true to the original idea that was William Woodside’s founding premise. In addition to sharing industry standards and practices, ASM has evolved into an organization that also promotes the profession of materials science through student and teachers outreach programs.

In Memoriam

Tribute To A Heat Treating Pioneer: George D. Pfaffmann, FASM

FEBRUARY 13, 1928–NOVEMBER 22, 2015

PFAFFMANN, George D., age 87, November 22, 2015. Beloved husband of Shirley for 60 years. Loving father of Lori and Leslee. Loyal employee of Ajax-Tocco for 50 years and continued as a consultant until his passing. Fellow of the ASM International, member of the ASM Heat Treating Society and Society of Automotive Engineers. Proudly enlisted in the US Army during WWII and served during the Korean War.

George Pfaffmann was well known throughout the heat treating industry and was an active member of ASM International. He served on ASM’s Technology and Programming Committee and the ASM Materials Education Foundation, as well as the Heat Treating Society Board of Trustees and R&D Committee. George Pfaffmann was highly regarded as a true leader and innovator in induction heating technology.
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More than a million people from many parts of the world are estimated to have visited Materials Park since its opening in 1959, attracted by the dramatic aluminum geodesic dome, the educational displays of the ASM mineral garden and the unusual semicircular building featuring a profusion of unique materials applications.

Materials Park is the nerve center of the ASM information network. Here magazines and books are written and edited, conferences and expositions planned, education courses operated, and chapter activities coordinated. In addition, Materials Park stands as an educational symbol of man’s continuing achievements, through technology, in working with metals and materials.
ASM International® was formed for the exclusive purpose of advancing and disseminating scientific, engineering, and technical knowledge, particularly with respect to the manufacture, processing, characterization, selection, understanding, use, and life-cycle of metals and other engineering materials. This is accomplished through education, research and the compilation and dissemination of information, which serves technical and professional needs and interest, thereby benefiting the general public.

ASM recognizes the importance of metals and related materials as a vital and expanding technology, as the nation's largest and most complex industry and as a way to a better life. But more than this, ASM seeks to advance the knowledge of metals and materials, through the activities of its 37,000 members in 96 professional chapters throughout the world (plus 85 student chapters).

In furthering this effort, the Society has developed an information network of closely related activities and publications. Technical periodicals, reference books, conferences, expositions, education courses, scholarships, lectureships, achievement awards, and career activities are each designed to answer the broadening need for knowledge of metals and materials.

The Detroit Chapter, like the 96 other ASM chapters, is built around the needs of people with a direct interest in metals and materials...whether it be production, processing, fabricating, testing, design, application, sales, purchasing, teaching or another related area. Through chapter meetings, ASM brings these many different types of people together so they can discuss their common interests in metals, "talk shop," compare notes, and exchange ideas. Chapter meetings are highlighted by experts who present lectures and report on developments concerning engineering materials, thus advancing the knowledge of metals and materials in a very direct way.

For more information on various types of membership, please see page F-2.

ASM’S INFORMATION NETWORK
...activities and services to advance the knowledge of materials.

• The Chapter newsletter is an e-newsletter that is published monthly, September through May and is distributed to the Officers of all ASM Chapters. Its primary focus is on communication between Chapter Officers. Please email any ideas your Chapter has to: chapternewsletter@asminternational.org. Photographs are welcome.

• Materials Documents @ ASM—Need a technical document right away? Access the world-renowned ASM Library: the world’s most comprehensive collection of documents on materials science and engineering, containing more than one million records. Information is quickly accessed and copied with all copyright and legal issues taken care of, then delivered via U.S. Mail, fax, or overnight. Pricing (overnight shipping fees are extra): First 10 pages—$16 (ASM Members), $21 (Non-Members); each additional 10 pages—$4 (ASM & Non-Members). ASM members are entitled to receive two documents per year—up to 20 pages each—FREE! Call toll free 888-MAT-DOCS.

• ASM Handbook (Formerly Metals Handbook) – The world-famous series of reference books on metals engineering was first published in 1923. The Handbook series, completed in 1989, now comprises a 21-volume set that covers: properties and selection of ferrous and nonferrous metals and alloys; heat treating; surface cleaning, finishing and coating; welding, brazing, and soldering; alloy phase diagrams; powder metallurgy; mechanical testing; metallography and microstructures; failure analysis and prevention; fractography; corrosion; forming and forging; casting; machining; nondestructive evaluation and quality control; tribology; fatigue and fracture; and materials selection. ASM Handbooks are available to ASM members at a 20 percent discount. ASM Handbooks are also available on CD-ROM; contact ASM for information about pricing and member discounts.

• Engineered Materials Handbook – This series extends the ASM Handbook concept to non-metallic materials: Engineering Plastics, Adhesives and Sealants, and Ceramics and Glasses. These Handbooks are available to ASM members at a 20 percent discount.

• Technical Books – ASM publishes many technical books on materials-related subjects, including:

1) books authored by experts in metallurgy, materials science, manufacturing, and design;
2) data on metals, composites and other materials; and
3) proceedings of ASM conferences and seminars. ASM-published books are available to members at 20% discount. ASM also materials-related books from other publishers.

• Electronic Products – Electronic products include software, databases, journals, and book products now published on disk and CD-ROM. These products are designed to solve problems in materials identification, selection, and design; engineering and production; and scientific research and development. ASM offers a Member price for many of these products, usually 20 percent off the list price up to a maximum of $70. Co-published or other published electronic products may not offer Member pricing.

• Advanced Materials & Processes – The primary mission of this magazine is to provide authoritative technical information on metals, composites, ceramics, engineered plastics and electronic materials for use by those who specify, process, manufacture or test high performance engineered materials. The magazine is distributed monthly to all ASM members.


• International Materials Reviews – Devoted mainly to reviews of the theory and practice of extraction, production, fabrication, properties, behavior and usage of metals and alloys. It also features reviews concerning structural ceramics, composite materials, and electronic materials, with the emphasis...
on microstructure property relationships rather than on fabrication, packaging, and instrumentation.

ASM EDUCATION DEPARTMENT
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- ASM Non-Published Seminars – Short courses designed to bridge the gap between formal undergraduate education in engineered materials and the practical solutions that exist in industry today. These training seminars feature outstanding industrial and academic lecturers and include reference materials which become a valuable resource long after the instruction is completed.

- MST Training – If your company has six or more employees, then Materials for On-Site Training (MST) is the most cost effective way to provide quality group training and continuing education. ASM provides all the materials you need for successful training, including personalized technical course materials selection, lessons, and exams.

- Video Series – Full-length courses available are: Welding Inspection and Quality Control; Corrosion; Fundamentals of Non-destructive Testing; Heat Treatment Metallurgy and Applications; Principles of Failure Analysis; Practical Heat Treating; Thermal Spray Technology; Mechanical Testing of Metals; Induction Heating; Metallurgy for the Non-Metallurgist; and Principles of Metallurgy. A Video Trainer’s Guide is included with the purchase of any of the video courses.

- ASM Materials Education Foundation supports a broad program of metals and materials engineering education. Ongoing programs include the Materials Camp and ASM International Undergraduate Scholarship program.

ASM ACHIEVEMENT AWARDS PROGRAM
Distinguished Awards recognizing Outstanding Achievement in many phases of Materials Science, Materials Engineering, Science, Education and Research.

ASM Awards Program
ASM International recognizes the achievements of members and their organizations through the annual ASM Awards. Learn more about each award and how to nominate an ASM member or colleague.

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- Henry Marion Howe Medal
- Jacquet Lucas Award for Excellence in Metallography
- Edward DeMille Campbell Memorial Lectureship
- ASM & TMS Distinguished Lecture in Materials & Society
- Bradley Stoughton Award for Young Teachers

- Albert Easton White Distinguished Teacher Award
- Allan Ray Putnam Service Award
- William Hunt Eisenman Award
- Engineering Materials Achievement Award
- Medal for the Advancement of Research
- Albert Sauveur Achievement Award
- Distinguished Life Membership
- Gold Medal
- J. Willard Gibbs Phase Equilibria Award
- Honorary Membership
- Silver Medal Award
- ASM Historical Landmarks
- Emerging Professionals Achievement Award
- Bronze Medal Award
- ASM Canada Council John Convey Innovation Award
- ASM Canada Council Brian Ives Lectureship
- ASM Canada Council G. MacDonald Young Award
- ASM-IIM Visiting Lectureship Award
- ASM-IIM North America Visiting Lectureship Award

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A-4
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Life and Health Insurance: The ASM Members Insurance Program offers a wide variety of insurance products at an affordable, discounted group rate. Insurance programs include term life, accidental death and dismemberment, cancer, disability income, catastrophic major medical, hospital income, Medicare supplemental, and a new program for long term care. “We will save $800 annually for the duration,” said one ASM member. Visit Selman & Company or call 800.556.7614.

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Publications: Order any of these magazines by phone at 888.800.1767 and be sure to mention ASM group number 112406.

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5. As an affiliate society to the American Institute of Physics, ASM members receive member rates when subscribing to AIP journals and magazines. Visit the AIP website for a complete listing and pricing.

6. Special ASM member savings are available for Physics Today ($59, a savings of $10), and Computing in Science & Engineering ($40, a savings of $30). Learn more or subscribe online.

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Have an idea for a new ASM member benefit? Email your suggestions to Candace Cunningham, Chapter Relations Manager at Candace.cunningham@asminternational.org.

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• Resume searching access – With a paid job listing, you can search the resume database and use an automatic notification system to receive email notifications when new resumes match your criteria.

• Company awareness – Along with each job posting, you can include information about your individual company and a link to your web site.

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Fax: 734-729-8605
bill.wood@covest.com

A-6
ASM International Board of Trustees 2013-16

Back Row L-R: Kathryn Danneman, Aaron Birt, T.S. Sudarshan, Craig Clauser, John Keough, Joseph DeGenova, Sudipa Seal, David Williams, Zi-Kui Liu and Sarah Straub.
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SHIRK, VIRGINIA..................Ext. 5538
Foundation Executive Assistant

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Education Coordinator
PEPPER, JOHN................Ext. 5575
Lab Manager

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MURRAY, KATHY................Ext. 5231
Global Conference Manager
SANDOVAL, CHRISTINA........Ext. 5625
Global Exhibit Manager
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Member Service Center Associate
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Director of Finance

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Network Systems Analyst

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Marketing Associate
KLEIN, CHUCK................Ext. 5718
Lifelong Learning Consultant

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Creative Marketing Strategist
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Materials Solution Sales Manager
STARK, SHARON..............Ext. 5464
Materials Solutions Customer Relations Specialist

TRICE, TOM......................Ext. 5604
Controller

WHITELEW, DIANE..............Ext. 5240
eProduction Coordinator

ePRODUCTION
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Senior eProduction Coordinator
CONTI, PATTY................Ext. 5710
eProduction Coordinator
SUKOL, KELLY................Ext. 5669
Project Coordinator
TRAMBLE, MADRID............Ext. 5241
Manager, eDocument Production

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Manager, Member Services
MINER, KING................Ext. 5234
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Account Payable and Payroll Specialist

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Controller

WHITELEW, DIANE..............Ext. 5240
eProduction Coordinator

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STARK, SHARON..............Ext. 5464
Materials Solutions Customer Relations Specialist
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- Durable, compact and easy to use.

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Optimized for Macro and Micro Vickers and Knoop evaluations.

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Bench-top planar grinder with fast grinding, programmable grinding depth and a durable grinding stone.

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Joe Butchart
(734) 276-5064
Joe.Butchart@Buehler.com

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41 Waukegan Road, Lake Bluff, Illinois, 60044 USA
phone: 847.295.6500 • 800-BUEHLER
email: info@buehler.com • www.buehler.com

Strong Partner, Reliable Solutions
## ASM-Detroit Chapter Past Chairs

<table>
<thead>
<tr>
<th>Year</th>
<th>Chair</th>
<th>Year</th>
<th>Chair</th>
<th>Year</th>
<th>Chair</th>
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<td>1915</td>
<td>C. N. Dawe</td>
<td>1949</td>
<td>R. C. Mc Cleary</td>
<td>1984</td>
<td>Gary G. Witt</td>
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<td>1916</td>
<td>C. N. Dawe</td>
<td>1950</td>
<td>Don M. McCutcheon</td>
<td>1985</td>
<td>Kirk R. Olson</td>
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<td>1917</td>
<td>C. Raiss</td>
<td>1951</td>
<td>O. W. McMullan</td>
<td>1986</td>
<td>Robert W. Foreman</td>
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<td>1919</td>
<td>H. Keifer, Jr.</td>
<td>1953</td>
<td>T. E. Olson</td>
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<td>Thomas D. Mackie</td>
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<td></td>
<td>M. Northrup Acting</td>
<td>1959</td>
<td>D. J. Henry</td>
<td>1994</td>
<td>Subi Dinda</td>
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<td>1927</td>
<td>E. J. Hergenrother</td>
<td>1962</td>
<td>J. E. LaBelle</td>
<td>1997</td>
<td>Larry R. Smith</td>
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<td>1931</td>
<td>H. W. McQuaid</td>
<td>1966</td>
<td>J. C. Holzwarth</td>
<td>2001</td>
<td>Michael J. Vinarcik</td>
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<td>1937</td>
<td>W. P. Eddy, Jr.</td>
<td>1972</td>
<td>C. N. Tanton, Jr.</td>
<td>2007</td>
<td>Michael J. Vinarcik</td>
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<td>1939</td>
<td>B. B. Beckwith</td>
<td>1974</td>
<td>Wm. P. Ziegler, Jr.</td>
<td>2009</td>
<td>Thomas Kozina</td>
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<td>Through December 2010</td>
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<tr>
<td>1941</td>
<td>L. C. Massey</td>
<td>1976</td>
<td>George E. Good</td>
<td>2012</td>
<td>Phil Huber</td>
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<td>1942</td>
<td>V. A. Crosby</td>
<td>1977</td>
<td>Raymond J. Filar</td>
<td>2013</td>
<td>Susan Hartfield-Wünsch</td>
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<td>1943</td>
<td>A. DiGiulio</td>
<td>1978</td>
<td>Ronald S. Michalak</td>
<td>2014</td>
<td>Manish Mehta</td>
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<td>1944</td>
<td>E. L. Morrison</td>
<td>1979</td>
<td>Daryl R. Wilusz</td>
<td>2015</td>
<td>Eric McCarty</td>
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<td>1945</td>
<td>R. W. Roush</td>
<td>1980</td>
<td>Robert A. Terrace</td>
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*Through December 2010*

*Through June 2012*
“A Life Member shall be any Individual Member who is in good standing, who has reached the age of 65 years, and whose years of membership combined with his age equal 100.”
The Detroit Chapter of ASM International employs an administrator who is responsible for the day-to-day operations, the publishing of a monthly newsletter, the Micro-Examiner, and the annual Yearbook & Buyer’s Guide. The administrator is the catalyst between ASM International and the membership who provides continuity and administrative support to an ever-changing Executive Committee.

Julie Nimer has served as our administrator for 3 years. To reach the chapter office, call (586) 944-5656 weekdays or email asmdetroitchapter@gmail.com. Send correspondence to P.O. Box 1398, Warren, MI 48090-1398.

David Masha has been the ASM Chapter Photographer since 1996. He attends the technical meetings to take photos which are used in the Yearbook & Buyer’s Guide and Newsletters. David also is the dinner line greeter and assists with technical presentation equipment. David also attends our annual golf outing to snap group shots of our golfers, and even gets in a round himself. In a day when our time is so precious, the Executive Board would like to extend its heartfelt thanks to David for his commitment to ASM-Detroit.

At the beginning of 2013, Vladimir’s, who has hosted the ASM Detroit Chapter Technical meetings for over 40 years, closed their doors. Vladimir’s was like home to our Chapter, so we were very sad to see them close. Since that time, we have been alternating our meetings between The Gazebo, Warren; The Lafayette Banquet Facility, Pontiac; Farina’s Banquet Center, Berkley; and The Livonia Marriott.

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**www.asminternational.org/web/detroit-chapter**

ASM-Detroit’s website provides Chapter information at your fingertips. Visit our web page and find useful information including (but not limited to):

- Calendar of activities, including monthly technical meeting schedules
- Conferences & Local Material Classes offered
- Monthly Micro Examiners (October - May)
- Award recipients
- Scholarship applications and info
- Links to ASM International and other ASM Chapters and affiliate societies
- Photo Gallery
- Employment Opportunities

Our web page continues to evolve and is updated regularly to keep our membership current on events and opportunities presented by ASM-Detroit. If you have comments, suggestions, corrections, or additions, contact Julie at asmdetroitchapter@gmail.com

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**2014 – 2016 ASM-Detroit Yearbook**

Julie Nimer and JP Singh  
Co-Editors  
DIMAC graphic solutions  
Publisher
ARTICLE I: Name and Objectives
Section 1—This organization shall be known as the Detroit Chapter ASM International.

Section 2—The objectives of the Chapter shall be in complete harmony with those set forth in the Rules for Government and Constitution of ASM International hereafter referred to as the Society. The exclusive purpose of the Chapter is to advance, promote and disseminate scientific, engineering and technical knowledge particularly with respect to the manufacture, processing, characterization, selection, understanding, use and life-cycle of metals and other engineering materials, through education, research and the compilation and dissemination of information to serve the technical and professional needs and interests of the membership and to benefit the general public.

ARTICLE II: Territory
Section 1—This Chapter shall have jurisdiction in areas specified by ASM International, specifically Detroit and vicinity.

AFFILIATED GROUPS
Section 2—Upon the recommendation of the Society, the Detroit Chapter may assume jurisdiction over the new groups of ASM International formed outside the territorial limits defined herein. However, it shall be understood that such jurisdiction is temporary and that the sole purpose of the Detroit Chapter in accepting this responsibility is to help establish associations. Once the new group has established itself on a sound technical, financial and social basis, it shall be the privilege of such affiliated groups to petition the Society for a chapter charter. In no case shall the jurisdiction of the Detroit Chapter over such groups extend beyond a period specified by the vote of the Executive Committee of the Detroit Chapter.

ARTICLE III: Membership and Privileges
Section 1—Membership of the Detroit Chapter, or affiliated groups, shall be classified in the manner defined by the Society.

Section 2—Full membership privileges may be extended also to those persons living outside the territory defined in Article II who, of their own volition and without solicitation or inducement by the Detroit Chapter, express in writing their desire to be affiliated with the Detroit Chapter while residing either temporarily or permanently beyond the area assigned to the Detroit group.

Section 3—All applications for membership in the Detroit Chapter or affiliated groups shall be presented on an approved form signed by the applicant and countersigned by a sponsoring member.

ARTICLE IV: Financing
Section 1—The Chapter shall be financed principally by a portion of the annual dues paid by each member and sustaining membership to the Society.

Section 2—The Executive Committee of the Detroit Chapter may make provisions for raising additional funds for carrying on the activities of the Chapter or affiliated groups and shall exercise complete management and control of such funds insofar as this does not conflict with the aims or objectives of ASM International or the provisions of its Rules for Government.

Section 3—All investments of funds belonging to the Detroit Chapter shall be in U.S. Government securities, accounts insured by a Federal Government agency or those securities designed by the ASM National Investment Program.

ARTICLE V: Officers & Executive Committee
Section 1—The officers of the Detroit Chapter shall be elected from its membership or affiliated groups and shall consist of Chairman, Vice-Chairman, Secretary and Treasurer.

Section 2—The Executive Committee shall consist of the officers of the Chapter, Chairmen of the Standing Committees, Chairmen of special appointed committees and the chairmen of affiliated groups.

ARTICLE VI: Standing Committees
Section 1—There shall be (9) Standing Committees as follows:

1. Yearbook — The Chapter Secretary and Vice Chairman will co-chair this committee.
2. Finance/Council of Fellows - The Chairman of this committee is to be appointed for one year, and is usually the outgoing Chairman, but must be a past Chairman.
3. National Affairs/Awards & Recognition — The Chairman of this committee is to be appointed by the Chapter Chairman for one year, and is usually the Chairman whose term expired 12 months previously.
4. Papers and Programs
5. MEI/Round Table/Education
6. Membership/Sustaining Members
7. Publicity/Attendance
8. Student Affairs & Young Members
9. Entertainment

Section 2—Committees may consist of no more than twelve (12) members. With the approval of the executive committee, a standing committee may be increased to 15 members maximum for any one year for a specific purpose approved by the executive committee.

Section 3—The Chairman may appoint up to four additional Executive Committee members, with the approval of the Executive Committee, to lead Ad Hoc Committees or any
ARTICLE VII: vacancies

Section 1—In the event that a vacancy occurs in the office of Chairman, the Vice-Chairman will be appointed Chairman to fill out the unexpired term.

Section 2—In the event that a vacancy occurs in the office of Vice-Chairman, the Secretary will be appointed Vice-Chairman to fill out the unexpired term.

Section 3—In the event that a vacancy occurs in the office of Secretary, the Treasurer will be appointed Secretary to fill the unexpired term, unless unwilling. (Note: Although eligible to advance to the position of Secretary, the Treasurer need not make such a commitment as a requirement of his/her position). If the Treasurer is unwilling to be appointed Secretary the entire Executive Committee will, by a two-thirds vote, appoint a member from its own membership to fill out the unexpired term.

Section 4—In the event that a vacancy occurs in the office of Treasurer, the entire Executive Committee will, by a two-thirds vote, appoint a member to this office from its own membership to fill out the unexpired term.

ARTICLE VIII: Duties of Officers

Section 1—Chapter Chairman: The Chapter Chairman shall preside at all meetings of the Executive Committee and at all regular and special meetings of the Chapter. The Chapter chairman shall make a written report to the membership by the end of the Chapter year, reviewing the activities of the Chapter and recommending future action to be taken by the Chapter. A copy of this report shall be forwarded to the Headquarters of ASM International and included in the following yearbook.

Section 2—Vice-Chairman: The Vice-Chairman shall perform the duties of the Chairman if the Chairman is absent or unable to act. The Vice-Chairman will be co-chairman of the Yearbook Committee.

Section 3—Secretary: The Secretary will be responsible for the maintenance of all Chapter records other than financial records. The Secretary will be responsible for keeping full minutes of all Executive Committee meetings and, upon request of the Chairman, will make reports to the membership and to the Society. The Secretary will be co-chairman of the Yearbook Committee with responsibility as Editor. The Secretary will be responsible to ensure that the Chapter website is maintained.

Section 4—Treasurer: The Treasurer shall be responsible for all funds and chattels of the Society. He/she shall disburse funds as authorized by the Executive Committee and shall keep, or cause to be kept, proper records of all monies received and disbursed by the Chapter. All checks must carry the signature of both the Treasurer and the Chapter Chairman or such other persons as may be designated by the Executive Committee.

The fiscal year of the Chapter shall extend from June 1 through May 31 of the following year. The financial records of the Chapter shall be audited annually as of the close of business on May 31. The Finance Chairman will be responsible for the audit; however, the selection of the auditor must be approved by the Executive Committee.

The Treasurer will be responsible for the preparation of an annual financial statement which will be reported in writing to the members at the end of the Chapter year. The Treasurer will also be responsible for the preparation of quarterly financial reports for the Executive Committee and such other financial reports as may be required by the Executive Committee, membership and the Society. The Treasurer, or any other person authorized to handle the funds of the Chapter, shall be bonded, the amount and character of the bond to be determined by the Executive Committee.

Section 5—Chapter Administrative Assistant: By a vote of two-thirds of its members, the Executive Committee may establish the position of Chapter Administrative Assistant. The holder of this position is not required to be a member of the Society. Such an employee shall be compensated in a manner to be determined by the officers of the Executive Committee.

Section 6—The affairs of the Chapter shall be governed by the Executive Committee. A majority of the entire committee membership shall constitute a quorum for the conduct of business. The Executive Committee shall also decide matters of policy and chapter business by a majority vote. All responsibilities not delegated herein shall come under the jurisdiction of the Executive Committee.
ARTICLE IX: Appointment, Nomination & Election of Officers & Executive Committee

Section 1—Appointments: The Chairman with the advice and consent of the other three (3) officers of the Chapter may appoint members to the Executive Committee for one (1) year terms.

Section 2—Nominating Committee: This is an Ad Hoc committee of the chapter. This committee shall consist of a Chairman and at least two other members. Past chairmen of The Chapter are eligible to serve on the Nominating Committee.

Section 3—Duty of The Nominating Committee: Duties of the Nominating Committee: The Nominating Committee shall nominate at least one candidate for each open position on the Executive Committee. The Nominating Committee chairman shall report those nominees to the Chapter Chairman after it has been determined that each nominee:

1. Is an individual or Sustaining Member of The Society in good standing.
2. Is eligible to serve.
3. Had indicated an understanding of the duties required and is available and willing to serve, if appointed, in the position concerning the nomination.

Section 4—Ballots for Election of Officers and Executive Committee Members: Ballots for the election of the officers and for committee members shall be prepared by the Nominating Committee and mailed to all members of the Chapter in good standing by the end of the Chapter year (May 31). They shall contain the following:

(a) For Chairman: The retiring Vice-Chairman and one blank.
(b) For Vice-Chairman: The retiring Secretary and one blank.
(c) For Secretary: The retiring Treasurer, if willing, and one blank.
(d) For Treasurer: The candidate selected as per section 3 and one blank.

If the Treasurer is unwilling, the candidate selected as per section 3 and one blank.
(e) For the remainder of the Executive Committee not covered in Section 1, or (a) through (d) above: Select two (2) candidates for each expiring office of the Executive Committee. Ballots to be counted must be received by 5:00 P.M. on the Friday prior to the next scheduled Executive Committee meeting.

Section 5(a)—Chairman, Vice-Chairman, Secretary and Treasurer shall be elected for one (1) year only. (b) The other members of the Executive Committee shall be elected for two years.

Section 6—At no time shall an affiliated group be entitled to more than two (2) members on the Executive Committee.

Section 7—Method of election of the group member to the Executive Committee of the Parent Chapter shall be determined by the affiliated groups, except that such member shall be elected for a one (1) year term. He/she may be re-elected to serve an additional term but not more than two years in succession.

Section 8—The term of office shall extend from June 1 to May 31.

Section 9—Vacancies: Should an elected person find between election and installation, that he/she is unable to serve; the vacancy shall be treated as in Article 7.

ARTICLE X: Removal of Officers & Executive Committee Members

Section 1—The Executive Committee may recommend removal of any Officer or Executive Committee member from their position on the Executive Committee. Such recommendation shall require two-thirds vote of the entire voting membership of the Executive Committee before the recommendation will be put into effect and only after hearing the pertinent evidence at any regular or special meeting of the Executive Committee. The member in question will be given at least a thirty (30) day written notice of such meeting and its purpose, as he/she shall have the right to appear personally and be represented by counsel.

Section 2—The Chapter members may also petition for removal of an Officer or an Executive Committee member by submittal of a written proposal signed by ten (10) percent of the membership to the Secretary and subject to the approval of the membership by a two-thirds majority vote of the returned ballots received within sixty (60) days from the date the ballots were distributed to the membership.

ARTICLE XI: Amendments

Section 1—Amendments to these Rules for Government may be made by a majority vote of the Executive Committee subject to the approval of the membership by a two-thirds majority vote of the returned ballots.

Section 2—Amendments to these Rules for Government may be made by a written proposal signed by ten (10) percent of the membership, filed with the Secretary and subject to the approval of the membership by a two-thirds majority vote of the returned ballots received within sixty (60) days from the date the ballots were distributed to the membership.

ARTICLE XII: Dissolution

If the Chapter should return its Charter to the Society for any reason, or should have its Charter revoked, the affairs of the Chapter shall be terminated immediately under the supervision of the Board of Trustees of the Society and all funds or other property remaining after payment of debts and obligation of the Charter shall be transferred to and paid to the Society.
ASM-Detroit Chapter Executive Committee

The ASM-Detroit Executive Committee is an all volunteer board that is responsible for the operation of the chapter. ASM-Detroit is the founding chapter of ASM International and celebrated our 100th anniversary in 2013. The success of our organization is directly related to the incredible individuals that have given so generously of not only their time, but their talents and ingenuity.

William Woodside’s vision for ASM is embodied in the leaders of this organization. While the industry has changed significantly over the last 100 years, materials science is embedded in the very fabric that makes our nation. For that reason, we would like to thank the individuals that have served the past few years as well as those that came before. Time is a precious commodity and ASM-Detroit is proud of the fine men and women in the materials community that have worked to keep Mr. Woodside’s vision alive.

2013-14 ASM-Detroit Executive Committee Officers

SUE HARTFIELD-WUNSCH  
Chair

MANISH MEHTA  
Vice Chair

ERIC MCCARTY  
Secretary

2013-14 ASM-Detroit Committee Chairs

JAMES BOILEAU  
Attendance/Publicity

J.P. SINGH  
Education/MEI/Round Table

JASON CORYELL  
Awards/Recognition & National Affairs

PHILIP HUBER  
Finance/Council of Fellows

ROGER W. PRYOR  
Membership/Sustaining Member

MEGHAN OAKS  
Co-Chairs Young Members/Student Affairs/Scholarships

KAE TROJANOWSKI  

MICHAEL BLAZEJEWSKI  
Entertainment

JULIE NIMER  
Administrator, Chapter Office

Not pictured:  
BRADLEY HALL  
Papers/Programs

JEN GARB  
Student Representative (UofM)
2014-15 ASM-Detroit Executive Committee Officers

MANISH MEHTA  
Chair

ERIC MCCARTY  
Vice Chair

J.P. SINGH  
Secretary

KAES TROJANOWSKI  
Treasurer

2014-15 ASM-Detroit Committee Chairs

JAMES BOILEAU  
Attendance/Publicity & Young Members/Student Affairs

THOMAS KOZINA  
Education/MEI/Round Table

SUE HARTFIELD-WUNSCH  
Finance/Council of Fellows

ROGER W. PRYOR  
Membership/Sustaining Member

URBAN DE SOUZA  
Co-Chairs Entertainment

MICHAEL BLAZEJEWSKI  

JASON CORYELL  
Chapter Council Representative

KATHY HAYRYNEN  
ASM Teacher's Camp

Not pictured:

BRADLEY HALL  
Papers/Programs

ELAYNE THOMAS  
UofM MMS Representative

JULIE NIMER  
Administrator, Chapter Office
2015-16 ASM-Detroit Executive Committee Officers

ERIC MCCARTY  
Chair

J.P. SINGH  
Vice Chair

KAE TROJANOWSKI  
Secretary

MICHAEL BLAZEJEWSKI  
Treasurer

2015-16 ASM-Detroit Committee Chairs

JAMES BOILEAU  
Attendance/Publicity  
& Young Members/  
Student Affairs

THOMAS KOZINA  
Education/MEI/  
Round Table

MANISH MEHTA  
Finance/Council  
of Fellows

URBAN DE SOUZA  
Membership/  
Sustaining Member

TIM STACHOWSKI  
Entertainment

SUE HARTFIELD-  
WUNSCH  
Awards/  
Recognition

JASON CORYELL  
Chapter Council  
Representative

ALEX PREISSER  
Papers/Programs

Not pictured:  
BRADLEY HALL  
Papers/Programs

TIMOTHY CHAN  
UoM MMS  
Representative

PEG JONES  
KATHY HAYRYNEN  
JULIE NIMER  
Co-Chairs ASM Teacher’s Camp  
Administrator,  
Chapter Office

B-10
For over 100 years, Surface Combustion has focused on applying our technical and practical experience to the pursuit of moving heat treating and furnace technology forward.
Fellows of the Society are members that have been recognized for outstanding accomplishments in some phase of metallurgy, materials science, or engineering, such as education, research, design, development, production, or management. Evidence of such accomplishment may be in the form of technical or professional contributions through supervision of research groups, educational groups, industrial organizations, or governmental agencies.

An additional prerequisite to election to the grade of Fellow is five years of membership as an individual or as the voting representative of a sustaining member.

2014 & 2015 Chapter Essay Award Winners

The ASM Detroit Chapter is proud to announce we received two Chapter Essay Awards for 2014 and 2015

- **2014 Chapter Essay Award for Communications.** For achievements in promoting active communication both to and within the chapter membership, or successfully implementing a new or creative communication strategy that has proven effective for chapter membership

- **2015 Chapter Essay Award for Innovative Programming.** For achievements in hosting innovative programming events that engage the chapter membership, provide new opportunities for the growth of the chapter and/or individual members with valuable activities that fulfill a professional need.

One chapter is selected from each size category to receive an award in up to three award categories. To be considered for an award your chapter must be in good standing and submit an essay application (no more than 500 words) in each award category that the chapter would like to be considered.
ESD Gold Awards Banquet

March 11, 2015 - ESD’s Gold Awards Banquet Attendees from the ASM Detroit Chapter. (Left to right) Dr. Manish Mehta, Dr. Robert McCune, Dr. Urban De Souza, Eric McCarty, Donald Cohen, Dr. Susan Hartfield-Wünsch, Thomas Kozina, Jason Coryell, and JP Singh.

On March 11, 2015 Past ASM Detroit Chair, Dr. Susan Hartfield-Wünsch, was our Chapter’s honoree for a Chapter President’s Award at ESD’s Gold Awards Banquet.

(Above) March 16, 2016 - ESD’s Gold Awards Banquet Attendees from the ASM Detroit Chapter. (Left to right) Eric McCarty, Kae Trojanowski, Susan Hartfield Wünsch, Jamie Burdeski, JP Singh, Thomas Kozina, and Denise Figlewicz

(Right) On March 16, 2016 Past ASM Detroit Chair, Dr. Manish Mehta was our Chapter’s honoree for a Chapter President’s Award at the ESD’s Gold Awards Banquet. Thomas Kozina (ASM Detroit Education Chair) accepted the award on Dr. Mehta’s behalf from Eric McCarty (Current ASM Detroit Chair).
I am pleased to inform you on behalf of the Board of Trustees of ASM International®, that your recommendation of Park Metallurgical/Heatbath Corporation has been approved as an ASM Historical Landmark. The citation reads: “At the forefront of expanding the business and science of metal working, Park Chemical’s contributions to metallurgical advancements began here in Detroit, Michigan by visionary ASM Founder/President, William Park Woodside.” The ASM Historical Landmark Designation was established in 1969, to identify permanently the many sites and events that have played a prominent part in the discovery, development and growth of materials.

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## 2013-2014 ASM-Detroit Chapter Program

**October 14, 2013**  
**National Officer’s Night, “Light Alloys Processing Revolutionizing the Automotive Industry”**  
**Speaker**  
Prof. Ravi Ravindran, FASM, ASM International President  
**Tech Chair**  
Jason Coryell, General Motors  
**Sponsor**  
Thixomat/nanoMag  
**Venue**  
Vladimir’s

**November 12, 2013**  
**University Night**  
**Sponsor**  
RTI Laboratories, AFC- Holcroft, and Joyworks  
**Venue**  
Conor O’Neill’s

**January 13, 2014**  
**Chapter Meeting, “State of the Michigan Economy”**  
**Speaker**  
Mr. Michael Finney, Michigan Economic Development Corporation  
**Tech Chair**  
Dr. Manish Mehta, National Center For Manufacturing Sciences  
**Sponsor**  
Severstal  
**Venue**  
Vladimir’s

**February 10, 2014**  
**Membership Night, “3D Printing”**  
**Speaker**  
Dr. Pravansu Mohanty, Mechanical Engineering, University of Michigan, Dearborn  
**Tech Chair**  
Bradley Hall, Gerdau-Macsteel  
**Sponsor**  
DASI Solutions  
**Venue**  
Vladimir’s

**March 10, 2014**  
**Chapter Meeting, “PACVD Coating Technology”**  
**Speaker**  
Thomas Mueller, Rubig Engineering  
**Tech Chair**  
Dr. Susan Hartfield- Wünsch, General Motors  
**Sponsor**  
Gifford Krass, Patent Law  
**Venue**  
Farina’s Banquet Center,

**April 17, 2014**  
**Joint ASM/AFS Meeting, “The Auto Future: Fast and Furious”**  
**Speaker**  
Dr. David Cole, AutoHarvest,  
**Venue**  
Livonia Marriott

**May 12, 2014**  
**The 72nd Woodside Lecture, “Technology Transfer & Commercialization”**  
**Speaker**  
Dr. Stephen LeBeau, FASM, nanoMag/Thixomat  
**Tech Chair**  
Dr. Raymond Decker, FASM, nanoMag/Thixomat  
**Sponsor**  
Heatbath Park Metallurgical  
**Venue**  
Che LeMir’s
October 14, 2013
Left to Right: Jason Coryell, Professor Ravi Ravindran, and Dr. Manish Mehta

November 12, 2013
University Night
January 13, 2014

From Left to Right: Dr. Manish Mehta, Michael Finney, and Dr. Sue Hartfield-Wünsch

February 10, 2014

From Left to Right: Dr. Sue Hartfield-Wünsch, Dr. Pravansu Mohanty and Bradley Hall

March 10, 2014

Left to Right: Thomas Mueller and Dr. Sue Hartfield-Wünsch

April 17, 2014

Dr. David Cole

May 12, 2014

From Left to Right: Dr. Manish Mehta, Dr. Stephen LeBeau, Dr. Sue Hartfield-Wünsch and Dr. Ray Decker

2014 Joint ASM/AFS Golf Outing
### 2014-2015 ASM-Detroit Chapter Program

#### September 11, 2014
- **Event:** ASM Professional/Student Mixer Night
- **Sponsors:** Joyworks, AFC-Holcroft, and Steel Market Development Institute
- **Venue:** Conor O’Neill’s

#### October 6, 2014
- **Event:** Recent Graduate Night, “Lightweighting the F-150”
- **Speaker:** Dr. Peter Friedman, Ford Motor Company
- **Technical Chair:** Gregory Fata, Alcoa
- **Sponsor:** Alcoa
- **Venue:** The Gazebo

#### November 10, 2014
- **Event:** Sustaining Member’s Night, “Orbital Welding for Critical Applications”
- **Speaker:** Dr. Sunniva Collins, FASM, ASM International President
- **Technical Chair:** Jason Coryell, General Motors
- **Sponsor:** LECO
- **Venue:** Farina’s Banquet Center

#### February 9, 2015
- **Event:** Membership Award Night, “Advanced Structural Materials in Vehicle Repairability”
- **Speaker:** Jason Bartanen, I-Car
- **Technical Chair:** Eric McCarty, Materials Technology Consulting, LLC
- **Sponsor:** Gifford Krass and Proto Manufacturing
- **Venue:** Livonia Marriott

#### March 9, 2015
- **Event:** National Officers Night, “The Renewable Energy Transition”
- **Speakers:** John Freeman, Homeland Solar and Sarah Mullkoff, Michigan Environmental Council
- **Technical Chair:** Bradley Hall, Gerdau MACSteel
- **Sponsor:** DTE Energy
- **Venue:** The Gazebo Banquet Facility

#### April 13, 2015
- **Event:** AFS/ASM Joint Meeting, “Additive Manufacturing Solutions”
- **Speaker:** John Dobstetter, Stratasys
- **Sponsor:** RTI Laboratories
- **Venue:** Farina’s Banquet Center

#### May 11, 2015
- **Event:** 73rd Woodside Lecture, “The Next New Thing”
- **Speaker:** Dr. Robert McCune, FASM, USAMP
- **Technical Chair:** Dr. Manish Mehta, NCMS
- **Sponsor:** Heatbath Park Metallurgical
- **Venue:** Livonia Marriott

---

**2014-2015 ASM Detroit Chapter Executive Committee**
September 11, 2014
University Night

October 6, 2014
From Left to Right: Dr. Manish Mehta, Gregory and Dr. Peter Friedman

October 6, 2014
From Left to Right: Dr. Manish Mehta, and Caryn Ruzich

November 10, 2014
From Left to Right: Dr. Manish Mehta, Dr. Sunniva Collins, and Jason Coryell

Visit to Park Metallurgical on November 11, 2014.
From left to right, Dr. Manish Mehta, Mike Blazejewski, Dr. Sunniva Collins, Eric McCarty, Thomas Kozina and James Boleau

February 9, 2015
Left to Right: Dr. Manish Mehta, Jason Bartanen, and Eric McCarty
March 9, 2015
From Left to Right: Dr. Manish Mehta, Bradley Hall, Sarah Mullkoff and John Freeman

April 13, 2015
From Left to Right: Dr. Manish Mehta, John Dobstetter, Justin Lefevre and David Darbyshire

April 13, 2015
Tour of DASI Solutions

May 11, 2015
From Left to Right: Dr. Manish Mehta and Dr. Robert McCune

2015 Joint ASM/AFS Golf Outing
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
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</thead>
<tbody>
<tr>
<td>September 24, 2015</td>
<td>University Night</td>
</tr>
<tr>
<td>Sponsors</td>
<td>AFC- Holcroft and Joyworks</td>
</tr>
<tr>
<td>Venue</td>
<td>Conor O’Neill’s, Ann Arbor</td>
</tr>
<tr>
<td>October 12, 2015</td>
<td>Chapter Dinner Meeting, “ICME of Generation Three Advanced High Strength Steels”</td>
</tr>
<tr>
<td>Speaker</td>
<td>Dr. Lou Hector, Jr. – ICME</td>
</tr>
<tr>
<td>Technical Chair</td>
<td>Eric McCarty, Materials Technologies Consulting, LLC</td>
</tr>
<tr>
<td>Sponsor</td>
<td>Steel Market Development Institute</td>
</tr>
<tr>
<td>Venue</td>
<td>Livonia, Marriott</td>
</tr>
<tr>
<td>November 9, 2015</td>
<td>National Officers Night</td>
</tr>
<tr>
<td>Speaker</td>
<td>Jon Tirpak, P.E., FASM – ASM International President 2015-2016</td>
</tr>
<tr>
<td>Technical Chair</td>
<td>Dr. Manish Mehta, M-Tech International LLC</td>
</tr>
<tr>
<td>Sponsor</td>
<td>Proto Manufacturing</td>
</tr>
<tr>
<td>Venue</td>
<td>The Gazebo Banquet Center</td>
</tr>
<tr>
<td>February 8, 2016</td>
<td>Membership Awards Night, “Performing Non-Contact 3D Surface Analysis”</td>
</tr>
<tr>
<td>Speaker</td>
<td>Rob Kozlowski, Sales Engineer, KEYENCE</td>
</tr>
<tr>
<td>Technical Chair</td>
<td>Eric McCarty, Materials Technologies Consulting, LLC</td>
</tr>
<tr>
<td>Sponsor</td>
<td>KEYENCE</td>
</tr>
<tr>
<td>Venue</td>
<td>Farina’s Banquet Center, Berkley</td>
</tr>
<tr>
<td>March 14, 2016</td>
<td>Sustaining Members Night, “Magnesium Components in Automotive Applications”</td>
</tr>
<tr>
<td>Speaker</td>
<td>Dr. Joy Forsmark, Ford Research and Innovation Center</td>
</tr>
<tr>
<td>Technical Chair</td>
<td>Dr. James Boileau, Ford Research and Innovation Center</td>
</tr>
<tr>
<td>Sponsor</td>
<td>Thixomat/nanoMAg and MMP- Molded Magnesium Products, LLC</td>
</tr>
<tr>
<td>Venue</td>
<td>Lafayette Grande Banquet Facility</td>
</tr>
<tr>
<td>April 28, 2016</td>
<td>AFS/ASM Joint Meeting, &quot;Introduction and Tour of LIFT&quot;</td>
</tr>
<tr>
<td>Speakers</td>
<td>Lawrence Brown and Alan Taub, LIFT Center</td>
</tr>
<tr>
<td>Sponsor</td>
<td>RTI Laboratories</td>
</tr>
<tr>
<td>Venue</td>
<td>LIFT Center</td>
</tr>
<tr>
<td>May 9, 2016</td>
<td>The 74th Woodside Lecture, “A Materials Scientist in an Autonomous World”</td>
</tr>
<tr>
<td>Speaker</td>
<td>Paul E. Krajewski, Ph.D., FASM, General Motors Global Research and Development</td>
</tr>
<tr>
<td>Technical Chair</td>
<td>Susan Hartfield-Wünsch, Ph.D., General Motors</td>
</tr>
<tr>
<td>Sponsor</td>
<td>Heatbath Park Metallurgical</td>
</tr>
<tr>
<td>Venue</td>
<td>The Gazebo</td>
</tr>
</tbody>
</table>
September 24, 2015
Professional/Student Mixer

October 12, 2015
From Left to Right: Dr. Lou Hector Jr. and Eric McCarty

November 9, 2015
From Left to Right: Dr. Manish Mehta, Jon Tirpak, and Eric McCarty

November 10, 2015
Jon Tirpak, ASM International President (2015-2016), visit to UofM, Ann Arbor

February 8, 2016
From Left to Right: Rob Kozlowski and Eric McCarty

March 14, 2016
From Right to Left: Eric McCarty and Dr. Joy Forsmark
ASM-Detroit Chapter Scholarships

The ASM-Detroit Chapter is proud to award a number of scholarships annually to both students and teachers. For Undergraduate Scholarships we offer 2 different scholarships:

The **James A. Mansfield Award** is presented to a student with high scholastic achievement and is a member either of the Detroit chapter or an affiliated student chapter.

The **Marion Semchysen Freshman Scholarship**, is awarded to either a high school senior or college freshman to encourage them to pursue the fields of materials science or metallurgy.

### 2015 Undergraduate Scholars:

- **James Mansfield Scholarship**
  - Emily Burgess
  - University of Michigan
  - Ann Arbor

- **Marion Semchysen Scholarship**
  - Janine Erickson
  - Michigan Technological University

### 2016 Undergraduate Scholars:

- **James Mansfield Scholarship**
  - Jeremy Lipshaw
  - University of Michigan
  - Ann Arbor

- **Marion Semchysen Scholarship**
  - Emily Petersen
  - Michigan Technological University

(Not Pictured)
Each summer, over 15 teachers attend the week-long Materials Camp for Teachers in Ann Arbor. Through laboratory demonstrations that be replicated in classrooms, the teachers are given the information to bring the world of Materials Science to their students.

In order to aid the teachers in demonstrating Materials Science to their students, the idea of a Scholar Award was created. The Award consists of a $250.00 grant to the teacher to be used for the purchase of equipment and supplies needed to perform the experiments. In order to be eligible, the teacher attended the Materials Camp and then wrote a short paragraph detailing how they would use the money to promote STEM education in the classroom.

2014 ASM-Detroit Chapter Teacher Scholars

Pamela Opolsky (Academy of International Studies, Hamtramck) ........... Kathy Hayrynen Scholar
Wanda Bryant (Henderson Academy, Detroit) .......................... Peggy Jones Scholar
Judy Armstrong-Hall (Larson MS, Troy) ......................... Detroit Chapter Scholar
Stephen Barry (Harper Creek HS, Battle Creek) .............. Detroit Chapter Scholar
Jaime Hilliard (Macomb Mathematics Science Technology Center) .......... Detroit Chapter Scholar
Michelle Sauter-Portelli (Central Academy, Ann Arbor) .............. Detroit Chapter Scholar
Metallurgical, Chemical & Mechanical Testing

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- Certified Circuit Board Inspection
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- Hot Hardness Testing (to 1600°F)
- Cleanliness per ISO 16232
Michigan Regional Future Cities Competition

First begun in 1992, Future Cities is a nation-wide competition involving over 1000 middle schools. Every year, student teams design a city using the SimCity program; then, they create a model of the city using common materials, including as many recycled objects as possible.

2014 “Best Use of Materials” Award

*Priest Elementary Wins the ASM Detroit Chapter - “Best Use of Materials Award”*

2015 “Best Use of Materials” Award

*Henderson Academy Team*

2016 “Best Use of Materials” Award

*University High School Preparatory Academy from Southfield, MI*

The ASM Judging Team

Science & Engineering Fair of Metro Detroit

Every year, the Science and Engineering Fair of Metropolitan Detroit is held in March, at Cobo Hall in Detroit.

ASM volunteers judge projects focused upon the creation, development, and application of materials. The fair is divided into a Senior division (students in grades 9 – 12) and a Junior division (students in grades 6 – 8.)

Science Fair 2014

The winners were:
Grade 7  Terry McCain, Taylor Exemplar Academy: Thermal Conduction
Grade 10  Quintin Andrews, Michigan Math and Science Academy: Rubber Effect in Asphalt Binder

Science Fair 2015

The chapter is proud to recognize Ms. Ayesha Khanam, a senior at Cass Technical HS, with the ASM-Detroit Chapter Award. Ms. Khanam’s research centered upon the material properties of chitosan-based fibers; these fibers are being investigated for use in supporting heart valves in infants as they grow, limiting the need for multiple operations. The chapter is also proud to recognize Mr. Maximilian Ochocinski, an eighth-grader at Our Lady of Good Counsel Middle School, for his research on the adhesive shear strength of common glues.

In addition to the ASM-Detroit Chapter awards, the judging team also awarded four awards on behalf of ASM International. Two of these awards also went to Ms. Khanam and Mr. Ochocinski.

The remaining two awards were presented to: Ms. Ella Lawson, a sophomore at Divine Child HS, for her work on dye-sensitized Titanium Dioxide solar cells; and Ms. Meghan Rotole, an eighth-grader at Our Lady of Good Counsel Middle School, for her work on the effect of temperature on the corrosion rate of steel.

Science Fair 2016

The chapter is proud to recognize Ms. Sophie Martin, a sophomore at the Dearborn Center for Math, Science, and Technology HS, with the ASM-Detroit Chapter First Place Award.

Ms. Martin’s research centered upon the reducing the radiation and absorption of heat in crumb rubber used in artificial turf fields. The chapter is also proud to recognize Mr. Ankith Udupa with an ASM-Detroit Chapter First Place Award. An eighth-grader at Novi Middle School, Ankith’s research focused on which starch makes the strongest bioplastic.

In addition to the first place awards, the judging team also awarded two second place awards to Collin Wang (Freshman, Detroit Country Day HS) for his work on energy absorption and the injury prevention ability of various foams and Ms. Jillian Kleinow (8th Grade, John Paul II Catholic School) for her research into thermal properties of materials. The two third place awards went to Zachary Puechach (Sophomore, Catholic Central HS) and Ms. Erica Pinkney (8th Grade, Ellington MS).

From Left to Right: Ella Lawson and James Boileau

Sophie Martin

From Left to Right: Dr. James Boileau and Ankith Udupa
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ASM International Teachers’ Camp

The ASM Foundation, along with local ASM Chapters across the U.S., annually host the ASM Materials Camps for Teachers to help them “excite young people” in science and math. The teachers are shown low/no cost simple labs and experiments using everyday materials that can be integrated into their existing lesson plans to actively engage students and introduce them to the world of materials science. A special thanks to Camp organizers Dr. Kathy Hayrynen and Dr. Peg Jones.

2013 Materials Camp

2014 Materials Camp
Thermosetting polymer resins are mixed and molded to make clothespin memo holders, and an IR camera shows the exothermic reaction as the polymer cures.

2015 Materials Camp
“We spend a lot of time playing with fire...in this case we’re trying our hands at glass blowing.”
2015 Heat Treating Society “Mini Camp”


Our goal was to connect their high school curricula with careers in materials science and engineering. An integrated set of demonstrations was organized to lead them from liquid to solid state phase changes (metal casting) through solid state phase changes (shape memory wire, heat treating metals), observing the effects of heat treating on properties of bobby pins and measuring hardness of heat treated bolts, watching diffusion change a zinc plated penny from silver to gold when heated, and seeing how many materials are integrated to make a safety critical system like an automobile tire. Many students lingered at the metal casting and brassing penny stations.
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Are You a Sustaining Member?

Sustaining Members play a critical role in the success of ASM-Detroit. They provide both a continued core presence at Chapter activities, and an increased level of financial support. In return, Sustaining Members enjoy the goodwill and camaraderie, and the satisfaction of helping to educate and promote young material professionals. Sustaining Members also enjoy an array of benefits available only to them. They include:

- Listing on ASM-Detroit’s web site and a link to your company web site.
- Discounted advertising rates in Micro Examiner & Yearbook & Buyer’s Guide.
- Sustaining Member are frequently listed in our monthly newsletter, the Micro Examiner
- Special recognition in our Yearbook & Buyer’s Guide.
- Recognition at our Sustaining Members Night, and presented with a certificate that includes years of Sustaining Membership.
- Your company name projected during our social hour at our monthly technical meeting.

And the best part is that the membership is only $108 more than an individual membership, and includes one individual membership as well! Becoming a Sustaining Member can only increase your visibility in the materials community. To become a Sustaining Member, contact ASM International at (800)336-5152 ext. 6 for member services. Or visit the ASM International website at: http://www.asminternational.org/membership/member-types/chapter-sustaining

Sustaining Membership has its privileges, call today!
ASM-Detroit Sustaining Member Companies

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AFC Holcroft
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Ajax Tocco Magnethermal Incorporated
30100 Stephenson Hwy.
Madison Heights, MI 48071-1630

AK Steel Corporation
14661 Rotunda Drive
P.O. Box 1699
Dearborn, MI 48120-1699

ALD Holcroft
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Wixom, MI 48393-2009

Applied Process Incorporated
12202 Newburgh Rd.
Livonia, MI 48150-1046

Atmosphere Heat Treating Incorporated
30760 Century Dr.
Wixom, MI 48393-2063

Bjerke Forgings Incorporated
P.O. Box 250
Allen Park, MI 48101-0250

Dinsmore & Shohl
2701 Troy Center Dr
Ste 330
Troy, MI 48084-4741

Engineered Heat Treat Incorporated
31271 Stephenson Hwy.
Madison Heights, MI 48071-1622

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Warren, MI 48092-2031

Heatbath Park Metallurgical Corporation
8074 Military St.
Detroit, MI 48204-6005

Heat Treating Services
217 Central Ave.
Pontiac, MI 48341-2924

Induction Services
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Warren, MI 48091-5334

Industrial Steel Treating
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Michigan Metrology
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Livonia, MI 48152-2679

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366 West Circle Drive
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1524 E. 14 Mile Rd.
Madison Heights, MI 48071-1542

National Element Incorporated
7939 Lochlin Dr.
Brighton, MI 48116-8329

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Omni Metals Laboratory Incorporated
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## Individual Membership Options (select only one)

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<td>ASM Only (includes a one-time $10 initiation fee, renews at $107 per year)</td>
<td>$117.00</td>
</tr>
<tr>
<td>EDFAS – Electronic Device Failure Analysis Society Only</td>
<td>$88.00</td>
</tr>
<tr>
<td>ASEM Student Membership (full-time middle or high school)</td>
<td>$18.00</td>
</tr>
<tr>
<td>Material Advantage Student Membership (<a href="http://www.materialadvantage.org">www.materialadvantage.org</a>)</td>
<td>$30.00</td>
</tr>
<tr>
<td>SCTE – Society of Cable and Tool Engineers</td>
<td>$117.00</td>
</tr>
<tr>
<td>Rocky Mountain Chapter Sustaining Membership</td>
<td>$225.00</td>
</tr>
</tbody>
</table>

## Additional Affiliate Membership Options (check those you want to join)

<table>
<thead>
<tr>
<th>Option</th>
<th>Additional Affiliate Membership Options</th>
<th>Annual Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTS – Heat Treating Society (<a href="http://www.asminternational.org/hts">www.asminternational.org/hts</a>)</td>
<td>+$25.00</td>
<td></td>
</tr>
<tr>
<td>IMS – International Metallographic Society (<a href="http://www.metallography.net">www.metallography.net</a>)</td>
<td>+$25.00</td>
<td></td>
</tr>
<tr>
<td>TSS – Thermal Spray Society (<a href="http://www.asminternational.org/tss">www.asminternational.org/tss</a>)</td>
<td>+$30.00</td>
<td></td>
</tr>
<tr>
<td>SMST – International Organization on Shape Memory and Superelastic Technologies (<a href="http://www.smst.org">www.smst.org</a>)</td>
<td>+$50.00</td>
<td></td>
</tr>
<tr>
<td>EDFAS – Electronic Device Failure Analysis Society (<a href="http://www.edfas.org">www.edfas.org</a>)</td>
<td>+$25.00</td>
<td></td>
</tr>
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**Total: $______00**

## TOTAL PAYMENT (in U.S. Dollars)

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<tr>
<th>Payment Mode</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Check enclosed</td>
<td>$______00</td>
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<tr>
<td>Visa</td>
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<tr>
<td>MasterCard</td>
<td></td>
</tr>
<tr>
<td>American Express</td>
<td></td>
</tr>
<tr>
<td>Discover</td>
<td></td>
</tr>
<tr>
<td>Diners Club</td>
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</tbody>
</table>

**Please charge my credit card:**

<table>
<thead>
<tr>
<th>Card Type</th>
<th>Number</th>
<th>Expiration Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visa/MasterCard/American Express/Discover/Diners Club</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Signature for Credit Card Authorization:**

<table>
<thead>
<tr>
<th>Name (First, Initial, Last)</th>
<th>Division/Subsidiary</th>
<th>Company</th>
</tr>
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<tbody>
<tr>
<td></td>
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<td></td>
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</table>

**Business Address:**

<table>
<thead>
<tr>
<th>City</th>
<th>State/Country</th>
<th>Zip/Postal Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Business Phone Number:**

<table>
<thead>
<tr>
<th>Email Address (required)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Residence Address:**

<table>
<thead>
<tr>
<th>City</th>
<th>State/Country</th>
<th>Zip/Postal Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Residence Phone Number:**

<table>
<thead>
<tr>
<th>Residence Fax Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Mail or fax to 440.333.4634. Questions? Phone 800.333.5152, ext. 0. Mail payment to ASM International, Member Services Center, 9639 Kinsman Road, Materials Park, OH 44073-0002.**

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Every effort has been made to assure the accuracy of our membership roster. In order to facilitate accuracy of all membership information, we strongly advise that you carefully proof all your information before sending your membership renewal to ASM International. If your information changes during the year, please contact ASM International at (800) 336-5152, ext. 6 for member services. Calling ASM International will ensure we have correct and up-to-date membership information, including email addresses.

Special Thanks for Our Advertisers’ Support!
# CHAPTER ADDRESS CHANGE FORM

**Member’s Full Name (First, Middle Initial, Last)**  

---  

**ASM I.D. No.**  

---  

**Chapter**  

---  

**Title**  

---

<table>
<thead>
<tr>
<th>PREVIOUS ADDRESS</th>
<th>CURRENT ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Address</td>
<td>Business Address</td>
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<td></td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>City, State, Zip</td>
<td>City, State, Zip</td>
</tr>
<tr>
<td>Email Address:</td>
<td>Email Address:</td>
</tr>
<tr>
<td>Phone No.</td>
<td>Phone No.</td>
</tr>
<tr>
<td>Fax No.</td>
<td>Fax No.</td>
</tr>
<tr>
<td>Home Address</td>
<td>Home Address</td>
</tr>
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<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>City, State, Zip</td>
<td>City, State, Zip</td>
</tr>
<tr>
<td>Email Address:</td>
<td>Email Address:</td>
</tr>
<tr>
<td>Phone No.</td>
<td>Phone No.</td>
</tr>
<tr>
<td>Fax No.</td>
<td>Fax No.</td>
</tr>
</tbody>
</table>

**Signature**  

---

**Date**  

---

**A signature is required for auditing purposes. If a signature is not available, please fill out information below.**

<table>
<thead>
<tr>
<th>High School Attended</th>
<th>Graduation Date</th>
<th>Birth Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Which category below best describes the type of organization in which you are employed (please check only one)?**

**INDUSTRIAL**

- [ ] X01 Aerospace  
- [ ] X02 Automotive  
- [ ] X03 Off-Highway  
- [ ] X04 Fabricated Metal Products  
- [ ] X05 Machinery (except electrical)  
- [ ] X06 Electrical/Electronic Industry  
- [ ] X07 Chemical/Process Industry  
- [ ] X08 Primary Metals Production  
- [ ] X09 Energy and Utilities  
- [ ] X10 Heat Treating-Commercial  
- [ ] X11 Heat Treating-Captive (In-House)  
- [ ] X12 Heat Treating-Commercial & Captive  
- [ ] X13 Thermal Spray-Commercial  
- [ ] X14 Thermal Spray-Captive (In-House)  
- [ ] X15 Thermal Spray-Commercial & Captive  
- [ ] X16 Consulting  
- [ ] X17 Commercial Testing  
- [ ] X18 Contract R&D  
- [ ] X19 Education  
- [ ] X20 Government  
- [ ] X21 Book Dealer  
- [ ] X22 Subscription Agent

**Number of people employed at this address?**  

---

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Technologies-- A Metal
Improvement Company
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D-1 Element Materials
Technology
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D-4 Engineered Heat Treat, Inc.
(248) 588-5141
E-2 Heatbath/Park Metallurgical
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BC HEF USA
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A-6 LECO Corporation
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i Metlab Corporation
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A-7 Omega Castings, Inc
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F-4 Park Thermal International
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A-5 Park Thermal International
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A-1 RTI Laboratories
(734) 292-2100
IFC Struers Inc.
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A-6 Sun-Tec Corporation
(248) 669-3100
B-11 Surface Combustion, Inc
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E-3 Titan Metallurgy
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E-1 Upton Industries, Inc.
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A-6 Vac-Met Inc.
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8. Metal Cleaning Equipment 5
9. Metal Cleaning Services 5
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11. Metal Coating Services 5
12. Parts Manufacturers 5
13. Quality Services 5
14. Testing & Laboratory Equipment & Accessories 5
15. Testing & Laboratory Supplies 6
16. Testing and Laboratory Service Providers 6

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(269)968-8105
www.omegacastings.com

13. Quality Services
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Niagara Falls, NY 14305
(716) 282-6950
Metlabcorp.com

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(734)546-1458
www.leco.com

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Metlabcorp.com

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(248)669-3100
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(248)669-3100
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