

MAY 2021

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May 10th Technical Presentation: Woodside Lecture

Learning, Earning and Returning with Materials in Humanitarian Projects

The multi-media talk will begin with my personal journey growing up and schooling on three continents (Asia, Africa and America), and how my choice of STEM/engineering education evolved into a sustainable career path in advanced materials and manufacturing. The early exposure to demographic and geographical diversity and influence of some great mentors empowered me to get involved in exploring ways to give back to society. With supportive employers and family, I was able to volunteer with various Non-Governmental Organizations to organize or participate in unique humanitarian projects involving diverse materials and technologies for social good around the world. I will provide an overview of some amazing and challenging projects I have undertaken in the last 25 years such as water and sanitation systems to empower rural women in Eastern India and Nepal, polio eradication in South India, biomedical prostheses in Western India, pop-up eye care/dental clinics in Jamaica, the reuse of harvested pacemakers, and (most recently) a Pandemic relief project for Detroit. My message to younger materials engineers and scientists is to be open-minded, think outside the box like an entrepreneur, be tuned-in to recognizing unmet needs in our communities, find ways to apply problem-solving skills on a broader scale by leveraging new networks, and thereby take action in order to make a difference to those less fortunate.



Speaker
Dr. Manish Mehta, FASM
M-Tech
International LLC
- President



Tech Chair
Dr. James Boileau, FASM
Element
Materials
Technology -
Senior Materials
Engineer

Biography: Manish Mehta is an engineer and entrepreneur based in Ann Arbor, MI, USA, and the Founder of M-Tech International LLC, a consulting company which provides open-innovation, program management (PM) and federal grants assistance for research and commercialization of new materials and manufacturing technologies. He previously was employed with Environmental Research Institute of Michigan (1991-2000) where he led dual use technology projects in prototyping remote sensing and imaging applications for the shop-floor. He joined the National Center for Manufacturing Sciences (2001-2015) where he developed new projects and collaboration teams in sustainable manufacturing and lightweighting. He has provided PM services to numerous consortia of the US Council for Automotive Research since 1994, and was Principal Investigator of four consecutive awards from National Science Foundation where he studied the commercial and competitiveness impact of the National Nanotechnology Initiative. He also organized the Peer Review of the 21st Century Jobs Fund's 2008 Business Plan Competition to recommend State of Michigan Strategic Fund investments in innovative startups. He has also served on several National Academies Committees and Government Accounting Office panels on nanotechnology and lightweighting of Land, Sea and Air Vehicles and the 21st Century Army Trucks program. He is a Past Chair of ASM Detroit Chapter (2014-15), and a Fellow of ASM International, Engineering Society of Detroit and Alpha Sigma Mu, and a Lifetime member of Society of Manufacturing Engineers.

Manish's early education through high school was in East Africa, India and Singapore. He obtained his B.S. degree in Mechanical Engineering from Bangalore University (India) and M.S. and Ph.D. degrees in Industrial Engineering from University of Cincinnati. His doctoral dissertation was done at Wright Patterson Air *Continued on pg 5*

May 10, 2021 – Woodside Lecture

SPEAKER: Dr. Manish Mehta, FASM
TOPIC: "Learning, Earning and Returning with Materials in Humanitarian Projects"
VIRTUAL EVENT START TIME: 7:00 PM

For reservations please email asmdetroitchapter@gmail.com by May 8, 2021. You will receive an email link to the event on the morning of May 10, 2021.

2020-2021 ASM-Detroit Chapter Executive Board

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Angella Sell
ASM Detroit Chapter
Chair, 2020-21

A Note from our Chair, Angella Sell William Woodside

Springtime Greetings All!

Our upcoming May meeting marks the end of the Chapter Year, and what a year it has been. While I miss in-person interactions each month, I have gotten used to putting on a blazer while wearing sweatpants and hosting the meetings from home. This virtual year has been a great learning experience and I feel confident we will be able to transition to hybrid events going forward. This will enable the Chapter to reach ASM members from across Michigan (and beyond) as well as students from campuses like Michigan Tech who are included in our scholarship activities but are rarely able to attend.

The April Meeting was a joint event hosted by the Detroit-Windsor Chapter of AFS on Thursday, April 22. Chip DeGrace from General Motors was the speaker and his topic was ***Building on Mold Flow and Solidification, Structural Analysis Simulation in the Foundry Environment***. The event was well attended with over 50 people in the audience.

On May 10th our chapter honors an outstanding member of the ASM community by having them give the annual Woodside Lecture. In its 78th year, the Woodside Lecture is named after William P. Woodside, who founded ASM in Detroit in 1913. This year our speaker is Dr. Manish Mehta, FASM, who will be speaking on ***Learning, Earning and Returning with Materials in Humanitarian Projects***.

And now, a little history on the Woodside Lecture for those who may not be familiar:

The Woodside Lecture is named after William P. Woodside, who founded ASM in Detroit in 1913. William Park Woodside was born in Bruce County, Ontario, on March 4, 1877. Apprenticed to the blacksmith trade as a young man, he learned metalworking and the usefulness of heat-treatment in the creation of everyday products. After emigrating to Detroit, he realized the industrial need for quenching oils and heat-treatment salts; in 1911, he founded Park Chemical to supply the automotive industry.

After forming Park Chemical, he found that the industrial base lacked consistency and standardization in the use of heat treatment. Two years later, in October 13, 1913, he invited a select group of 13 men to a meeting at the Fellow Craft Club on Washington Street in downtown Detroit (the site is now the Madison Building). The group was composed of the leading heat treaters in the Detroit area; one invitee, Anthony Hoensheid, had formed the first official heat treating company, Hoensheid Heat Treating, in 1916 (as Commercial Steel Treating Company, it is still in operation as the oldest commercial heat-treater in North America).

From this group, the Steel Treaters Club was organized and began meeting on a regular basis with the aim of "furthering the concepts of sharing metallurgical and technological advances." In 1915, the Club began to expand as its first technical members were admitted. Three years later, the name was changed to the Steel Treaters Research Society of Detroit; its activities included the "setting and publication of standards that described the proper heat treatment practice necessary to produce the desired physical properties in steels."

Throughout the succeeding decades, the name changed from the Steel Treaters Research Society of Detroit to the American Society for Steel Treating and finally to the American Society for Metals. Membership grew (locally and nationally), and the dinner meeting with the technical talk as well as the annual Golf Outing became the staples of our local chapter.

William Woodside went on from founding Park Chemical to hold executive positions with Cadillac, Studebaker, and Crucible Steel, all while remaining chairman of Park Chemical's Board; he eventually retired from Climax Molybdenum as its vice-president in 1943. That year, to honor him and his service to ASM, the Detroit Chapter *Continued on pg 5*

Meet The Candidates

Election of Two (2) New Officers

To cast your vote, please click on the link below. You will be directed to the voting ballot on Survey Monkey. Please vote by May 31st. If you wish to receive a paper copy of the ballot to mail in, please email Julie at asmdetroitchapter@gmail.com. Survey: www.surveymonkey.com/r/TV5X9GS



Mark Harper

Mark Harper - After working as a certified welder in the nuclear industry, Mark earned a bachelors and master's degree in metallurgical engineering, and a doctorate degree in materials science, at the Ohio State University. He followed his doctorate degree with a Fulbright Fellowship at the University of New South Wales in Sydney, Australia.

Upon returning to the United States, he worked in the nickel alloy industry for ten years developing and testing high temperature alloys before returning to school in 2002 and earning his law degree at Northern Illinois University in 2005. He is the recipient of the B.F. Goodrich Young Inventor Award, The Electrochemical Society Morris Cohen Graduate Student Award, and was a National Science Foundation Summer Scholar at Carnegie-Mellon University. Currently, Mark is an intellectual property attorney at Burriss Law PLLC in Detroit and specializes in patent drafting and prosecution for clients in the materials science field and technologies related to metallurgy, welding, pigments, electronic materials, optical fibers and sheet glass. Mark has over thirty (30) publications in the fields of high temperature corrosion and high temperature alloys, and has drafted and successfully prosecuted over a hundred patent applications for Fortune 50 companies, Fortune 500 companies, small businesses and individual inventors.



Emily Wolbeck

My name is Emily Wolbeck, I have been with Ford Motor Company for the past 7 years, currently I work as a Materials Engineer in the ICME and Materials Characterization group. I aid in the supervision of four user labs with approximately 150 users a year; overseeing the microscopy, sample prep, and the electron microscopes.

Beyond the supervision of the labs, my duties include aiding product development in firefights during prototyping, production, launch, through warranty; and aiding research groups with their projects. I specialize in failure analysis of metals, but have worked with polymers, ceramics, elastomers, battery materials, foams, and glass, throughout my time at Ford. I completed my undergrad at Michigan Technological University in Materials Science and Engineering in 2014 (Cum Laude) with a certificate in Global Technological Leadership and a minor in International French. I recently completed my Masters of Materials Science and Engineering in 2019 through Michigan Tech (Magna Cum Laude). Over the past year, I have been dipping my feet in the ASM leadership, severing as Co-chair of Young Members and Student Affairs. Here I have been able to familiarize myself with the basic structure of the ASM organization and feel ready to ramp up my commitment to this wonderful group of people. I have a strong outgoing (and fun loving) personality that I hope can aid ASM into the future

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ASM-Detroit Chapter 2018-2021 Yearbook & Buyer's Guide

ASM-Detroit will be publishing the 2018-2021 Yearbook & Buyer's Guide by the end of this Chapter Season. Business cards ads start at \$185 for Sustaining Member companies and full page ads are \$425! We will be publishing this edition electronically. With the book online you will have access to literally thousands of potential customers. If you haven't advertised before, consider advertising this year. For more information on rates, contact Julie at the chapter office at (586) 944-5656 or via email at asmdetroitchapter@gmail.com. Help support ASM-Detroit and advertise!

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2020-2021 ASM Detroit Chapter Program

May 10, 2021

ASM Woodside Lecture

Speaker:

Manish Mehta – M-Tech International LLC

Title: "Learning, Earning and Returning with Materials in Humanitarian Projects."

August 13, 2021

ASM Detroit Chapter & AFS Detroit/Windsor Chapter Annual Golf Outing

Fellows Creek Golf Club & Banquet Center
2936 S. Lotz Rd, Canton Michigan

Registration: 8:30 am

Shotgun Start: 9:00 am

DR. MEHTA'S BIO *continued from pg 1*

Force Base Research Labs (WPAFB, OH) on machining of carbon fiber composites for repair of stealth aircraft structures, which got him interested in assisting the automotive industry. A mid-career Executive Program in Corporate Strategy at University of Michigan Ross Business School under the mentorship of Late Prof. CK Prahalad sparked his interest in triple-bottom line thinking and concern for uplifting those at the "bottom-of-the pyramid." He has held volunteer positions, fundraised and organized highly leveraged humanitarian service projects with the Rotary Club of Ann Arbor North, Federation of Jain Associations in North America, and was on the Board of Washtenaw County American Red Cross.

CHAIR'S MESSAGE *continued from pg 2*

Executive board designated the final meeting to be the Woodside Lecture. The inaugural speaker was Charles Kettering, a founder of Delco and (then) vice-president of GM Research; his presentation was entitled "Research and the Future."

William Woodside and his wife moved to Arizona in 1949, where they lived until his death on December 5, 1956. He is buried in Woodlawn Cemetery in Detroit, alongside such notables as the Dodge Brothers, Edsel and William Clay Ford, Albert Cobo, and a host of Motown stars. The society he founded now has chapters throughout the United States and the world.

Please join us virtually on Monday, May 10 at 7:00PM for the 78th Woodside Lecture. Please email Julie at asmdetroitchapter@gmail.com by May 8 for reservations. I'll see you all there on video and in the chat!

Angella Sell



Marc Glasser
Director of Metallurgical Services



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Thanks to Detroit Windsor AFS for hosting the April 22nd virtual AFS and ASM Meeting. Thanks also for Chip DeGrace for speaking at the event. We had over 56 people in attendance!

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Schoolcraft College Offers Outstanding Metallurgy Program

Students looking to enter a Metallurgy and Materials Science related careers have recently been afforded a new opportunity with the expansion of Schoolcraft College’s Manufacturing and Engineering Center (MEC) in Livonia. This new location more than doubles the Occupational Program department’s labs and classroom space and in addition to Metallurgy and Materials Science (MET), houses programs in Computer Aided Design, Advanced Manufacturing, Engineering Technology and Pre-engineering, Electronic Technology, Welding, Mechatronics and Plastic Technology.

The College’s MET program includes metallographic evaluation, mechanical testing and chemical analysis. Students learn about and evaluate materials in their ‘as received’ condition through the influences of manufacturing processes and environmental conditions (cold working, heat treatment, welding, corrosion, etc.). Non-destructive testing methods are also introduced. Additionally, the department houses a Zeiss EVO LS15 scanning electron microscopy (SEM) with Energy-Dispersive Spectrometer (EDS). This coursework provides students with highly sought after hands-on learning experiences to aid in their foundational understanding of material properties, processing influence and testing methods.

Teaching the students are instructors from across the industry. MET instructors bring experience to the department from leading area businesses and include such sectors as automotive, aerospace and transportation.

“We offer a very hands-on approach to the teaching of basic

materials science. Through practical lab activities supported by a fundamental understanding of physical metallurgy, industrial processing, material specifications, and testing methods, our students are prepared to support the needs of local industry,” explains Dennis Fohey, Materials Science instructor.

Many students meld the knowledge gained in MET courses along with their Advanced Manufacturing, Welding, CAD Design and Plastics coursework giving them a wide perspective to meet the needs of local industry. Since the late 1960s, our graduates have taken roles in organizations throughout the area. With the foundation gained at SC, many continue to grow in their education and careers holding positions from technician to managerial positions in labs, quality assurance, and technical sales.

Schoolcraft College has also distinguished itself as the only school in Michigan that offers an Associate in Applied Science degree in Metallurgy and Materials Science as a two-year program. The Metallurgy department also offers certifications enabling students to either establish a foundation, develop new skills, or reinforce existing knowledge. Students that earn the degree in other disciplines can also return to complete a Post-Associate Certificate. Additionally, the department and College work with area employers to train new employees, upskill existing employees, and establish registered apprenticeships.

The MEC facility is open and conducting a combination of virtual, traditional and hybrid classes. For information on the Metallurgy department and related programs at Schoolcraft College, contact Dennis Fohey at dfohey@schoolcraft.edu, or (734) 462-7012.

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ASM Detroit Chapter & AFS Detroit/Windsor Chapter Annual Golf Outing



Detroit Chapter



ASM and AFS have a rich history in supporting the following: Provide scholarships to university students; Promoting career fairs, science fairs and ASM's annual Teacher's Camp; Visits to middle schools to encourage science and math careers.

REGISTRATION

DATE

Friday, August 13, 2021

TIME

Registration 8:30 am
Shotgun Start 9:00 am

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| <input type="checkbox"/> \$500 - On Course Beverage Cart | <input type="checkbox"/> \$400 - Closed The Pin Competition |
| <input type="checkbox"/> \$500 - On Course Lunch | <input type="checkbox"/> \$400 - Vegas Hole |
| <input type="checkbox"/> \$400 - Longest Drive Competition | <input type="checkbox"/> \$250 - Hole Sponsorship |

The event is ASM-Detroit Chapter's & Detroit Windsor AFS Chapter's yearly fundraising project and is only made possible by our generous Sponsors and Golfers. This is a unique opportunity for local business owners and Chapter Members to promote their goods and services. It's also a great place to network with others and have a great time!