Chair Message:

Despite temporary obstacles to meet and socialize in person, we are going through the exciting experience of virtual technical meetings. Recently we started off with a great presentation from the NJIT PhD candidate. Keeping the momentum, NY/NJ ASM chapter brings you a unique opportunity for a Virtual Tour at Microtech Welding Corporation, Indiana.

As our main goal is to offer opportunities for the local community to broaden knowledge in applied technology, on behalf of our chapter I would like to ask you to share this invitation to as many students and non-members as possible. With a tour like this we can learn how technology is implemented and observe how real production works, but more importantly anyone who joins will have an opportunity to ask questions and get immediate response from the tour host.

Please join us on Tuesday June 30th, 2020 at 2 PM EST

I wish all of you staying safe and healthy.

To join the meeting, please see next page.

Chairman: Igor Sevonkaev
Praxair Electronic Materials, a member of the Linde Group

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June Special 2020
ASM International Metro NY NJ Chapter
This issue:
1: Chair Message
2: Location of plant tour
3: Plant tour: Microtech Welding Corporation
4: Intro of plant tour
5: Chapter News: NJIT Material Advantage Chapter
6: Photo from June Meeting
7: Chapter Executive Committee

Virtual Plant Tour:
June 30th 2020, Tuesday, 2:00 pm, EST
Please join 5-7 minutes prior to resolve possible connection issues

To join follow the Link:
https://meet.google.com/hjp-tfcw-iqj
or scan with your phone:

![QR Code](https://example.com)
June Plant Tour:
Microtech Welding Corporation

History and Background

- Founded in 1997
- Focused on micro welding
- Capabilities include:
  - TIG (GTAW)
  - Micro TIG (GTAW)
  - LBW
  - Metal Sectioning Lab
  - Aluminum
  - Plasma Arc Welding
  - Purge Chamber
- D17.1 AWS certified welders
- ISO 9001:2015 Registered
- Two facilities:
  - Fort Wayne: expanded to 12,000 sq. ft. in 2013
  - Warsaw: opened its doors in 2005 as a satellite location
- Over 200 years of welding experience, and over 30 years of welding education
- Transition in August of 2017 to new ownership.
- Five S, Kanban, Lean Manufacturing implementation
- New website launched in early 2018

Microtech Capabilities

- Tungsten Inert Gas (TIG) or Gas Tungsten Arc Welding (GTAW): produces exceptionally clean high-quality welds
- Micro TIG (GTAW): a process of performing minute welding operations on intricate assemblies with minimal heat
- Laser Beam Welding (LBW): a process of fusing metal with an amplified beam of light
- Metal Sectioning Lab: section, polish, and measure weld penetration. Optical comparator added for optical measuring and inspection
- Plasma arc welding: a process similar to GTAW. The electric arc is formed between an electrode and the workpiece
- Purge Chamber: used to provide a completely inert atmosphere for welding reactive metals such as Titanium, Cobalt Chrome, and Molybdenum
- Materials: Stainless, Titanium, Aluminum, Carbon Steel, Nickel, 3D

The virtual tour will start with the introduction of Microtech, its historical overview and manufacturing capabilities. The tour will follow with a walk through the facility showing welders in workstations running production.

We will then follow with a more detailed GTAW and LBW weld process. It will show a close-up live video of the weld in process through a filtered lens.
The final stop will be at our Metal Sectioning Lab to see how it is used to verify weld criteria.

Mike Zehner and Terry Lockwood will be the main participants in the Virtual Tour. Ted Dienelt, Operations Manager and Matt Wojewuczki, President may appear in parts of the tour.

**Mike Zehner – Production Manager** // Mike has 38 years of experience in the welding industry and was a welding instructor at Anthis Career Center for over 25 years. He attended Purdue University in West Lafayette Indiana studying Mechanical Engineering Technology. He also serves on advisory boards for welding educational programs.

**Terry Lockwood – Manufacturing Engineer** // Terry is attending Trine University in Angola Indiana studying Design Engineering Technology. Terry has been interning for the past 3 years working in the metal sectioning lab, quality department, weld inspection, and implementing lean manufacturing principals into production.

**Ted Dienelt - Operations Manager** // Ted has over 20+ years of experience in the operations and supply chain management industry. He has worked in a variety of manufacturing verticals, including retail, manufacturing, and distribution. Ted graduated from the Indiana University Kelley School of Business in Bloomington.

**Matt Wojewuczki – President** // Matt has a Mechanical Engineering degree from the University of Michigan in Ann Arbor in addition to an MBA in Finance from Western New England College. He has over 30 years of experience with manufacturing and supply chain, including both corporate and consulting experience. He retired as a Lt Col from the US Air Force in 2013.
On the photo (left to right): Blake Rader, Richard Perez –Quiroz, Robert Ivko (Vice - Chair), Dr. Veljko Samardzic (Faculty Advisor), Allison Guajala (secretary), and Jeric Hernandez (Chair)

Recently the Material Advantage Student Chapter had been reactivated, and this photo shows the Faculty advisor Dr. Veljko Samardzic with leading officers of the chapter. Catelo Acanfora is the new Treasurer of Chapter. He is not on the photo.
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