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Joint Society AFS-ASM-SAE
Dinner and Program
Thursday, October 3, 2019
6:00 PM Social Hour, 7:00 Dinner, 8:00 Program
Zehnder's of Frankenmuth
Frankenmuth, Michigan

Reservations required by Noon Monday, September 30, 2019

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Contact: Bernard Santavy at SAEMidMichSec@cs.com or (810)-635-7948

Please join us for a joint engineering society dinner meeting with presentation cohosted by The Saginaw Valley Chapters of AFS and ASM at Zehnder's of Frankenmuth in the Town Hall Room (downstairs). Enjoy a meal of Family Style Chicken (broiled & fried) with Livers. Tickets \$30

The World of Forensic Engineering & Failure Analysis at



Presented by Melissa Simpson, PE
Project Engineer in Houston, TX

Ms. Melissa Simpson is a Project Engineer with over 10 years of experience as a Mechanical Engineer with a background in design, manufacturing, quality, and forensics. She is knowledgeable about the manufacture, usage and quality issues related to most materials, including elastomers, alloys and specialty steels. Melissa is experienced with the investigation of safety incidents, including those that involve machine guarding and personal injury. At Envista, Melissa applies her expertise to consult with clients regarding the scope or cause of damage and determination of repair ability after a reported incident.

Melissa holds a Bachelor of Science Degree in Mechanical Engineering from Texas A&M University and is a licensed Professional Engineer.

Melissa will present the topic of Material Failure Analysis as applied to product failures including mechanical, metallurgical, and corrosion related failures. She will explain the wide variety of analytical techniques utilized including electron microscopy and X-Ray spectroscopy to conduct material failure analysis following incidents of corrosion, defective material, or fatigue failure.



The presentation will highlight how industrial standards such as ASTM, SAE, ASME/AMSI and ISO are utilized during material failure analysis.