



Purchase Tickets \$25 online at:  
<http://www.midmichigansae.org>

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](mailto: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 \$25

## ***The World of Forensic Engineering & Failure Analysis at Envista Forensics***

***Presented by Melissa & Tonya***

**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



**Tonya Edmunds**

***Technical Consultant in Detroit, MI***



Ms. Tonya Edmunds is a Technical Consultant with over 10 years of experience in electrical engineering. Ms. Edmunds most recently programmed machine vision systems at an automotive facility for quality verification on assembly processes. This allowed her to assess and vastly improve efficiency on several assembly lines. She also reviewed and dispositioned nonconforming material if it did not meet the minimum quality control standards. Ms. Edmunds was actively involved in day-to-day failure analysis on assembly line processes that were down. Prior to that, she completed a contract for testing telematics in Hyundai KIA production cars. In the past she tested and validated electrical distribution systems (wire harnesses, crimp applications, and splices) for automotive OEMs and tier one wiring suppliers under USCAR Specifications by completing dry circuit resistance testing. Ms. Edmunds has worked on engineering and test programs for automotive, military-aerospace, medical and consumer electronics. She has been involved in all aspects of automated test equipment and enclosure build from development, programming, configuring hardware, system integration to design verification.