



**spe** **EA 2023**  
**PLASTICS IN ELECTRIC & AUTONOMOUS VEHICLES**

Troy, MI • April 16-19, 2023

Powered by SPE Automotive Division

## Panelists



**Ken Vessey**  
UL Solutions



**Adam Halstband**  
Forward Engineering



**Dave Sullivan**  
SABIC



**Brian Engle**  
Amphenol



**Michael Blake**  
Freudenberg-NOK



**Eric Rask**  
ITW Automotive



**Dr. James Edmondson**  
IDTECHex

## Panel Discussion

### “Thermal Runaway – Scenarios and Solutions”

Tuesday April 18, 2023, 10:30 AM to Noon

#### Key Topics:

#### TRA Scenarios

Industry challenges, safety concern, possible reasons, battery architecture, trade-off between energy intensity, packaging and cost implications

#### TRA Investigations

Testing & inspection – Vehicle level, system level, battery module level and material level. Standardization gaps and needs

#### TRA Solutions

TRA protection – Cell barrier, module separators, enclosure with right use of materials, venting strategies, battery architecture & design

## Moderators



**Dhanendra Nagwanshi**  
SABIC



**Dr. Jeffrey Helms**  
Celanese Corp.



**Maggie Baumann**  
Pinfa North America