

Below are the updates to the minutes for May 19th meeting which will be the Agenda for our next meeting at 11:00 CDT on June 21.

It was agreed that the theme **"Electrification, it's not just about the powertrain"** is in fact a good title and that we should stick with it. As topic items we started to list ideas and define possible sources for speakers:

- 1) Electrification of Air Conditioning - Power Steering - Compressor - etc.
 - A) Nexteer for Steering
 - B) Halla for Steering
 - C) Air Conditioning ???
 - D) Compressor

No identified sources for this topic

- 2) Standards & Redundancy Requirements

A) AEC / Fred Weber to attend annual meeting week of April 25, will check to determine if they have a possible speaker **_NO they are updating the AEC passive specs**

B) ISO26262 / **John Vigars to check with Allegro's standards point of contact to perhaps get a lead to an ISO and/or ASIL contact**

- 2A) Separating Liability / Component to System to OEM to Consumer ???

No identified sources for this topic

- 3) Generic Roadmap For Electrification **changed to Challenges for Future Transportation Electrification**

A) GM / Fred to call his contacts in Advanced Engineering **GM said NO**

B) Chrysler / **Fred to call his contacts at Continental - who sells to Chrysler**

C) Ford **Jun to discuss with FORD, USCAR , USDRIVE and DOE for potential speakers**

- 4) Centralized vs. Decentralized Power Supplies

Same as 3 - this is viewed as an OEM decision

No additional thoughts

- 5) 12V to 48V transition & Supply Chain - this is viewed as a European issue since they are leading the way on this transition

Fred will contact Continental (Dennis) for his inputs

A) Daimler ??

B) BMW ??

- 6) Hacking Concerns - Security

A) Onstar ??

B) Tesla ??

C) Chrysler ?? May want to address what they have changed since the well known hacking case that was on 60 Minutes

Ralph will discuss options with contacts at Delphi

- 7) Obstacles to Driverless Cars

A) Delphi / Ralph Taylor ??

- B) Google ??
- C) Tesla ??

Ralph will discuss options with contacts at Delphi

- 8) New Battery Chemistry to better support additional Load
 - A) Hitachi ??
 - B) Samsung ??

Fred to Contact Panasonic

- 9) Infrastructure, Fast Charging, Wireless Charging - What are the new trends, obstacles, opportunities. What about Fuel Cells????

Ralph to contact ORNL about a possible speaker

- 10) Additional Ideas?????

Ralph to contact a company working on thermoelectrics for automotive

If anyone can offer possible names of people that can help with any of these titles, or perhaps get us closer to a source that would be very helpful.

We look forward to having you join us at our next Committee meeting!