# SAE WPT Taskforce Face-to-face Meeting February 11 – 12, 2025 in Utah

There will be a full team face-to-face meeting held in conjunction with the Conference on Electric Roads & Vehicles (CERV 2025) event February 9 – 12, 2025 at the Sheraton Park City, Utah.

Full conference information, schedule, and venue/travel information can be accessed through the website.

SAE team should <u>register</u> for the CERV conference. On the registration form also select the SAE team meeting and Technology Showcase options. Note, there will be a \$25 fee for a boxed lunch when you register for the SAE meetings

#### **Agenda Summary for SAE Team**

Venue February 9 – 11 is the Sheraton Park City, 1895 Sidewinder Dr, Park City UT

#### **CERV Conference Schedule-at-a-Glance**

February 9	5:45 am – 7:00 pm	Fireside Chat with Invited Speakers; Registration Area Open
February 10	7:30 am - 7:50 am	Continental Breakfast (provided)
	7:50 am – 5:45 pm	Conference Sessions (lunch provided)
	5:45 pm – 6:45 pm	Informal Reception
February 11	7:30 am – 7:55 am	Continental Breakfast (provided)
	7:55 am – 1:05 pm	Conference Sessions

#### SAE WPT TF Full Team Face-to Face-Meeting: Day 1

rebruary 11	1:30 pm – 6:30 pm (WH)	SAE J2954/X Full Team Face-to-Tace Meeting
	3:30 pm – 8:30 pm (ET)	<ul> <li>Working Group Lunch (individual pay on own)</li> </ul>

- Note: meeting continued on February 12

SAE WPT TF Leadership Chairperson: Jesse Schneider Secretary: Dorian Vargas-Reighley

## SAE WPT TF Agenda

1:30-1:45 Introductions, Meeting Notes, Agenda- Jesse/ Dorian 1:45-2:00 SAE HD Dynamic-WPT Cooperative Research Project (CRP), Round 2 Call to Membership

## 2:00-4:00 SAE J2954/2- Mike Masquelier, Nils-Gunnar Vaegstadt, Grant Covic

- HD Survey Summary (Mike/Grant/Nils)
- SAE HD Determination of Content for SAE J2954/2 HD-WPT Overview Spreadsheet- Mike
- Application Use Case Descriptions (targeted at RP) Mike/Nils
- Overview of OEM Inputs on Vehicle Space Claim Inputs from OEMs Mike/Nils
- RP Timeline (requires Data from Suppliers/OEMs) Mike/Nils
- HD Interoperability by Use Case (tbd) Mike/Nils

#### 4:00-5:30: SAE J2954- Jesse Schneider, Dorian Vargas-Reighley

- Review of LD/MD OEM Survey Results for VA Packaging and Interoperability for LD/ MDV- Jesse
- Interpretation of VA Packaging Size for LD/MD & Interoperability-Jesse
- TRL Level Requirements for SAE WPT TF Proposals- Jesse/ Dorian
- SAE HD Determination of Content for SAE J2954 LD/MD WPT Overview Spreadsheet- Dorian
  - Discussion of Content for LD

Discussion of Content for MD

#### 5:00-6:15 Interoperability Discussion: - Grant Covic

- HD (SAE J2954/2) Interoperability Plan: Target Use Cases for RP, Define Expected Interoperability
  - Power Level Classes, Layout, Surface/Flush/Buried
  - Proposed Process for System Evaluation: Simulation, Interoperability Testing, Modification for Layout,
     Optimization Control/Magnetics, Test Platform
- D-WPT (SAE J2954/3) Interoperability Plan:
  - Expectations for stationary vehicle systems (MD, /2) to operate in dynamic if desired
  - o Implications on buried GA design
  - o Expectations for interoperability of dynamic VAs when parked stationary
  - o Interoperability evaluation plan should be similar to /2
- LD/MD (SAE J2954) Interoperability Plan:
  - WPT4 GA: Will both surface and flush mount be needed?
    - Are interoperable VAs expected to provide suitable couplings for both?
    - Implications of VAs non-working with flush GA
    - Backward Compatibility with WPT1-3 VAs?
  - Vehicle Size Expectations: Smallest Possible
  - WPT 5 & 6: Expected Interoperability across power classes (e.g. with WPT3 GA)
  - o Use of HD Z Ranges for MD vehicle classes (e.g. 100-150, 150-200, 200-250)
  - Demand for Dynamic or Buried Stationary GAs in WPT 5 6 power classes?
- Interoperability Matrix Visualization/Tracking Concept Dorian/Grant

# Venue February 12 is the ASPIRE Electric Vehicle Roadway (EVR) at Utah State University (USU) in Logan Utah

February 12 8:00 am Bus Departs Sheraton Park City with those wishing to ride

(to assist with this decision, see travel options below for return options)

10:00 am – 12:00 pm Technology Showcase (lunch provided)

#### SAE WPT TF Full Team Face-to Face-Meeting: Day 2

12:00 pm – 6:00 pm (MT)

2:00 pm - 8:00 pm (ET) SAE WPT Taskforce Face-to-face Meeting (continued from Tuesday)

12:00- 3:00 PM SAE J2954/3- Andreas Wendt, Regan Zane

- D-WPT Presentation ENRX: WPT-8 and response towards the idea to start with WPT-6 only
- D-WPT Presentation Electreon: Reasoning to focus on WPT-6
- Discussion of cross-document interoperability (Dynamic-to-Static Feedback-Loop)
- Review "D-WPT Requirements for a proposal"
- Feedback to Jan 21<sup>st</sup> presentations
- Update on /3 Timeline
- SAE HD Determination of Content for SAE J2954/3 D-WPT Overview Spreadsheet- Andreas
- Introduction of Required TRL Level for Proposals (TRL6-7 Vehicle Integration, with SAE WPT CRP Testing)

# 3:00-5:45 PM Scope for standardization efforts (subteam chairs)

- EMC-EMF (Rich Boyer, Robert Sutton)

- J2954/1 LD: Consensus on §9 EMC and 10 EMF agreed upon updates (release dated 2024-08)
- J2954/2 HD:
  - o EMC radiated emissions limits, use cases, limits over transmitted power.
  - EMF safety, use cases,
    - Can assessment techniques from J2954/1 be reused?
- J2954/3 D-WPT:
  - Measurement methodology for radiated emissions, Use cases
  - o Better understanding on use case.
  - O How should limits be applied?
- In general:
  - o EMC/EMF considerations for test stand.
  - Test stand usage for component level testing.
  - o Test stand use case for D-WPT as it relates to EMC/EMF.
- Liaison- SAE WPT Regulation Update
   Electromagnetic Compatibility of WPT Global Overview Presentation by Ky Sealy
- Finalize Scope & Standardization Plans for SAE J2954: LD/ MD
- Finalize Scope & Standardization Plans for SAE J2954/2: HD
- Finalize Scope & Standardization Plans for SAE J2954/3: Dynamic LD/MD/HD

5:45-6 Wrap up & Logistics

# **Travel Options for SAE Team:**

#### Option 1:

Attendees can opt to stay in Park City Feb 11 and transition up to USU in Logan on the morning of Feb 12. If they prefer, they can also drive up to Logan after the meetings on Feb 11 and stay in Logan that evening. Transportation for this option is all on your own.

# Option 2:

Attendees can stay in Park City on Feb 11 and take the conference provided shuttle from Park City to USU in Logan the morning of Feb 12. Since the showcase ends earlier than the SAE meeting, you will need to arrange your own return transportation. There are several car rental companies in Logan as well as a shuttle to Salt Lake City (both downtown and airport option). Salt Lake Express