PSMA

Transportation Electrification Committee

May 16, 2023

Meeting

<u>Meeting Minutes</u>

<u>Attendance for 5/16/23 PSMA Committee Meeting</u>

1. Fred Weber
2. Fernando Salcedo
3. Joe Horzepa
4. John Horzepa
5. Renee Yawger
6. Dinesh Kithany

1. APEC 2024 Industry Session
   a. Theme/Title and an idea of what type of presentations will be given:
      i. Contact BOSCH reps for participation – Fred sending intro email
         1. Cyrille.brando@bosch.com
         2. Vishnu.Medisetty@bosch.com
      ii. "Major Challenges on the Roadmap to Transportation Electrification"
         1. Extreme Fast Charging topologies
         2. Codes & Standards, and Regulations (MCS), impact
            a. Reach out to Lee for POC with SAE or other (ANSI)
         3. Vehicle-to-Grid, Bi-directional Power
         4. Wireless Charging
         5. Grid Infrastructure to Enable
         6. GaN and SiC power modules for Vehicles?
   b. Agenda and Area of Interest:
      i. At least have 2-3 govt presentations
      ii. Then 3-4 PE technical presentations
2. Greater Visibility and Participation of Transportation Electrification Committee:
   a. With LinkedIN, possibly add a questionnaire and agenda with potential topics for next meeting.
   b. Reach out to other committee's and committee members (i.e. magnetics, semiconductors, etc.) for interest in meeting participation.

       c.   Broader email to PSMA subscribers to advertise the committee
       d.   Reach out to Industry folks
             i.   Suggestions:
                   1.   Lukas Mueller (Magnetics Committee)
                   2.   Matthias Preindl

<u>Next Meeting:</u> June 27, 2023 @ 10 am CT

<u>Action Items:</u>

1. Come up with 2024 APEC Industry Session Theme/Title
   a. Presentation Topics
   b. Potential Presenters
2. Develop plan to increase committee visibility and participation.

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Transportation Electrification Committee

June 27, 2023

Meeting

<u>Meeting Minutes</u>

<u>Attendance for 6/27/23 PSMA Committee Meeting</u>

1. Fred Weber
2. Fernando Salcedo
3. Joe Horzepa
4. John Horzepa
5. Diarmuid Conchubhair
6. John Li
7. Francis Mullany
8. Chris Whaling
9. Dinesh Kithany

1. Follow-up for APEC 2024 Industry Session:
   a. Theme/Title:
      i. "Major Challenges on the Roadmap to Transportation Electrification"
      ii. Should have 9 subjects, in case we want to have 7 final subjects.
      iii. Due August 11th
         1. Topics
         2. # of Slots planned
         3. Speaker commitments do not have to be confirmed
      iv. https://apec-conf.org/industry-session-resources-2024/
   b. Topics Suggestions:
      i. AI & Data Centers preparedness for autonomous vehicles
         1. Look into autonomous vehicle supplier POCs to present.
         2. Ask presenters if they can also touch on their subject's impact on autonomous vehicles & AI.
      ii. How the transition to NACS standard impact EV experience
         1. Fernando will reach out to EVs@Scale "Codes and Standards Pillar" POC
      iii. Methods to lower total cost of ownership for high power charging stations using innovative power electronics.
         1. NCSU – SST-based DCFC
      iv. How use cases drive transportation electrification solutions
         1. Chris Whaling
      v. How electrification impacts off-road vehicle industry
         1. Asking Brij Singh (John Deere)
      vi. Supply chain constraints for critical materials and bottlenecks for transportation electrification (Battery).
         1.
      vii. Bi-directional Charging and V2X, and how will it affect the future of charging.
         1. Fernando will ask
      viii. Wireless Charging Technology
         1. Dinesh or another contact
2. Action Items:
   a. Dinesh will follow up after speaking with ASPIRE and SIEMENS POCs for participation in PSMA.
   b. Dinesh will follow up on PTR
   c. Dinesh and Fernando will need to brainstorm how to ensure best time slot and visibility: July 10th
      i. One keynote speaker
      ii. Ensure best slot possible for our industry session
         1. Reach out to APEC industry session organization committee

   iii. Always have more than 1 speaker from committed speaker's company in case presenter backs out last minute.
  d. Continue providing PSMA committee updates on LinkedIn
   i. Include next meeting date
   ii. How to get included on invite list
   iii. Include recent achievements and publications

3. Next Meeting Date: July 25th at 11 am EDT

PSMA

Transportation Electrification Committee

July 25, 2023

Meeting

Meeting Minutes

Attendance for 7/25/23 PSMA Committee Meeting

1. Fred Weber
2. Fernando Salcedo (co-chair)
3. Joe Horzepa
4. John Horzepa
5. Dinesh Kithany (co-chair)

1. PSMA Committee Meeting changing format:
   a. Send letter to John with details which will be relayed to Chris (Marketing Committee)
   b. Ensure to include presenters for Industry Session and PTR

2. Brainstorm Ideas for Presenters for Following PSMA Industry Meeting:
   a. Exclusive content of interest for attendees (20min, then Q&A)
   b. Draw in more participation
   c. Industry Contacts, reach out:
      i. Name – Company

      d.   Commitments at least 2-3 months in advance

3. APEC IS:
      a.   Gallium Critical Supply Chain and other power semi materials
      b.   Theme, and 9 Subjects selected, need to down-select to 7
           i. If all 9 are willing to present, 2 may be able to present in "Emerging Technology" IS

4. Transportation Electrification Roadmap:
      a.   Reaching out to last year presenters
      b.   5-year trends and future technologies
      c.   Power Technology Roadmap (PTR)
      d.   40-minute overview presentations
      e.   No PSMA template available
      f.   [Power Technology Roadmap Forum | PSMA](#)

5. Vehicle Electrification Workshop
      a.   Format: To shift from 2 days, back-to-back TO 1-day full session, followed by another one after say 6 months
      b.   Live or Virtual?
      c.   Reach out to Matt Wilkowski - mwilkowski@enachip.com
      d.   Reach out to Reenu Garg (Semiconductor) - Reenu.garg@microchip.com
      e.   Future Opportunity for Joint (Magnetics, Capacitors, Semiconductors, Transportation)?

6. Renaming Committee:
      a.   "Vehicle Electrification" or "Transportation Electrification" or other suggestions
      b.   Include in Announcements and LinkedIn
      c.   https://apec-conf.org/industry-session-resources-2024/

7. Next Meeting:
      a.   August 15th @ 10 am EST
           i. Fernando Salcedo (DOE - VTO) will present (15-20min)