

Innovative Public Transportation and Technologies Committee Annual Meeting Washington, DC

January 11 (in-person) and February 18 (virtual), 2022

Co-chairs: Jean Ruestman and Carol Schweiger

Welcome and Introduction

- Jean welcomed everyone and asked that everyone sign-in
- Carol Schweiger joined via Microsoft Teams

Committee Business

- Minutes from 2021 meeting presented by Jean Ruestman
 - Ian Detamore motioned to accept; Matt Daus seconded
 - All members in attendance agreed to accept.
- How is the Committee doing on communications?
 - Mailchimp emails were started recently and have been well received.
 - Jean asked that any who were not members/friends to provide an email address if they'd like to receive emails.
 - Jean encouraged attendees to share stories (not sales pitches) on the LinkedIn group.
 - Two members have come forward to help with website development.
 - Jean requested that attendees provide feedback on what they'd like to see on the website.
- Committee will be going through rotation in April.
 - Current membership is 56, but the limit for the committee is 36.
 - As part of the review, the committee will have to look at how to downsize, but new membership will still be considered.

Paper Reviews Summary - Adam Cohen

- 275 Annual Meeting paper reviews
- Special thanks to all reviewers!
- Committee received 97 papers - 44 recommended for presentation, 11 recommended for publication in TRR
- Popular topics: TNCs, Micromobility, MaaS
- Observations:
 - Complex papers require reviewers from more disciplines, especially statistics and simulation modeling.
 - Reviewers were, in general, thoughtful.
 - In some cases where scores were low, there were limited narrative comments or comments that were not reflective of the comment. This confused some authors about why the paper was not recommended.

Presentation of Certificates of Appreciation

- 2020: David Kuehn, Adam Cohen
- 2021: David Kuehn, Adam Cohen, Matt Daus, Siong-Hu Wong

AP020 TSP was developed shortly before the restructuring.

- Will start reworking this after the shuffling of membership.

- Will be looking for anyone who can help develop this.

Research Needs and Research Statement Development - Michael Berman

- Working group last met in December 2021.
- Working group started with a number of research questions.
- Trying to create a strong research needs statement that will lead to the development of improved metrics to measure the ability of passengers of varying needs to complete their desired trips.
- Hoping to develop outcome measures, rather than typical output measures.
- Research could be done in two phases
- State of the current practice
- Recommendations for new metrics.

TRB AV Forum: Automated Vehicles and Shared Mobility - Murat Omay

- At the Virtual Meeting, Murat Omay gave a presentation on the TRB AV Forum's activities and meetings for 2021.

Partner Committee Updates

Rural, Intercity Bus, and Specialized Transportation Committee (AP055)

- No members/attendees present to provide general updates - meeting scheduled concurrently
- Intercity Bus Subcommittee Updates
 - Discussed Intercity Bus Atlas
 - Discussed upcoming webinars

Paratransit Subcommittee (AP055(1))

- TRANSED Conference scheduled for September 12-16, 2022. TRANSED Conference abstracts can still be submitted until March 1, 2022
- IATR Conference scheduled for shortly after TRANSED
- Will include NEMT Standards group.

International Coordinating Council (A0020C) - Ron Boenau

- Recently conducted a series of webinars with a Chinese Technology Group to discuss various aspects of mobility management.
- Will be continuing liaison activities with many international groups.
- Will also liaise with other groups previously overlooked, such as ITS America.
- Working groups in the ICC will continue to work on expanding the activities of the group.
- Looking to encourage "twinning", bringing in international groups that are working on the same topics that TRB is working on.

ITS Committee (ACP15) - Carol Schweiger

- No members/attendees present to provide general updates.
- Carol Schweiger will try to get updates from committee members and send those out with the minutes.

Data for Operations, ACP10(2); Regional Highway and Transit Integration, ACP10(4)

Subcommittees

- No members/attendees present to provide general updates
- Carol Schweiger will try to get updates for ACP10(4) from committee members and send those out with the minutes.

Equity of Innovative Mobility Services and Technology Subcommittee - Adam Cohen

- First in-person meeting held on 01/11/2022
- Presentations on Micromobility Safety and Smart City Columbus

- Plan on having additional virtual meetings, where research topics will be discussed.

Accessible Transportation (AME50)

- Discussed TRANSED Conference
- Lectern session, canceled but hoping to be moved to webinar, on 35 Years of ADA
- If converted to a webinar, AME50 will share a registration link with the committee.
- Committee receives many papers regarding accessibility of on-demand and shared-use mobility options.
- Committee would be happy to connect regarding any papers that include accessibility.

Powered Micromobility Subcommittee Meeting

- Meeting to be held on 01/12/2022
- Committee is looking to do a TSP, which is abnormal for a subcommittee, but the Subcommittee is looking to better determine its place/role.
- Looking for people to take on leadership roles in the group and help develop the TSP

Updates from other Groups

- USDOT Virtual Workshops for Inclusive Design Challenge will be held on January 24 and 26, 2022.
 - Webinars will include the challenge's semifinalists.
 - David will provide a registration link to be sent out with the minutes.
- ATR Conference to be held from September 22-25 in Memphis, Tennessee.
 - Theme will be on Equity in Transportation from the Ground-Up
- CALTRANS will be hosting an in-person (undecided) symposium later this year.
- Past two years of the virtual conference have been hugely successful.
- UTC Global Symposium April 12-13 centered on Shared Mobility services
 - There will be an equity panel present.

Conference on Sustaining and Emerging Transportation Technology (SETT) - Renee Ray, Hayden AI

- To be held May 31 - June 2, 2022 in Irvine, CA
- Address questions on how policy-makers, private sector, NGOs, academics, and other can work together to encourage new mobility solutions to benefit all users of transportation sessions.
- Still seeking speakers for the session on vehicle technology and multimodal mobility
- Preferably looking for speakers from the private sector.
- More information available on TRB, as this is a TRB-hosted conference

SAE Shared and Digital Mobility Committee - Pooja Chaudhari, SAE

- SAE published a document on the Taxonomy of On-Demand and Shared Mobility in June 2021 (JA3163).
- Provides definitions for surface and maritime services related to on-demand and shared mobility services.
- Expectation that this will be a living document, that is updated as the understanding around these technologies and services evolve.
- Available for free download on the SAE website
- Committee does not have a chair currently.
- Other SAE updates
- SAE ITC is developing a set of privacy impact assessment tools for sharing mobility data.
- Pooja can share additional details as a follow-up, if requested.
- Other information is available on the SAE website.

TRB Announcements - Steve Andrie, TRB

- 8 federal agencies have agreed to step forward and sponsor TRB, which help maintain its financial stability going forward.
- One-hour breaks have been to allow for room cleaning between sessions.
- TCRP Updates
- Attachments will be distributed along with minutes
- New projects selected for FYE 2022 and associated panel nomination announcement.
- Research completed, webinars conducted, and other accomplishments
- Synthesis problem statements due in March 2022, and full research problem statements are due in June 2022.
- Anyone can submit a TCRP problem statement
- Research Panel meetings have been fully virtual, but all meetings have a virtual offering, should they resume in-person meetings.
- Travel savings have been reallocated to additional research.
- Cross-disciplinary research is very much an interest to the National Academies, but there are technical limitations that they are still working through.

Conference on Advancing Transportation Equity

- Held in September 2021, sponsored by AME10 and AP020
- Focused on challenges around equal access:
 - Disability Status
 - Unbanked Access
 - The Digital Divide
 - Low-Income Populations
- E-circular is in development and will be freely distributed to anyone interested.

MOD Sandbox Key Findings - Adam Cohen, UC Berkeley

- Evaluation group will also be the evaluators for the IMI, AIM, and EMI grants
- Looking to get a solid grasp on the innovations that are out there and what has been working.
- Key Findings
 - Agencies expressed concern about reliability of private sector partners
 - Some agencies/partners were overly ambitious in project designs
 - Only partners with funding can be counted on to follow through with actual commitments
 - Operating legacy programs alongside pilots can create issues for users and agencies
 - Concerns were raised about viability of public-private partnerships when fee changes occur at contract renewal.
 - Some agencies liked the ability to name partners without traditional procurement, but others would prefer to issue RFPs
 - More flexibility is needed for contracting open-source software development
 - Several public agencies noted challenges working with P3s and private-vendors
 - Several challenges rose trying to right-size vehicles and DRT zones
 - Public sector should not assume that there is a latent demand in low-density areas.
 - Some reported concerns that deployments were skewed toward higher income areas because the emphasis on serving lower density areas of region
 - Some partners took steps to ensure services were accessible, but other did not.
 - Equity-related goals may conflict with private sector goals to optimize operations and business potential.

- There needs to be more policy guidance and regulation to ensure that MOD serves all users.
- Collaboration is needed to connect services that overcome equity issues.
- OpenTripPlanner enhancements were rolled up into the core product, rather than being separate branches of development.

Presentations from Paper Submittals:

- Presentation 1: Shared e-scooter service providers with large fleet size have a competitive advantage: Findings from e-scooter demand and supply analysis of Nashville, Tennessee - Nitesh Raj Shah, University of Tennessee, Knoxville Tickle College of Engineering
- Presentation 2: Does Taxing TNC Trips Discourage Solo Riders and Increase the Demand for Ride Pooling? A Case Study of Chicago Using Interrupted Time Series and Bayesian Hierarchical Modeling - Hani S. Mahmassani, Director, Northwestern University Transportation Center, Northwestern University
- Presentation 3: Can Shared Mobility Compensate for Public Transport Disruptions? An Analysis of Milan's Bike Sharing and Public Transport System During the COVID-19 Pandemic - Giorgio Saibene, Hamburg Business School, University of Hamburg

Additional Notes from Virtual meeting:

- Katherine Kortum is leading a project regarding equity in transportation. It is being conducted by TRB's Consensus and Advisory Studies Division and is entitled "Data, Metrics, and Analytic Methods for Assessing Equity Impacts of Surface Transportation Funding Programs." Please see <https://www8.nationalacademies.org/pa/projectview.aspx?key=52513> for more information
- Ron Boenau representing the TRB International Coordinating Council discussed upcoming activities to carry out the ICC's three overall goals: 1) Collaborate with TRB technical committees on International Activities; 2) Engage International Colleagues and Partners in TRB Activities, Committees, and Panels; and 3) Leverage International Cooperative Benefits through Convening Activities
- Matt Daus — The International Association of Transportation Regulators is holding its 35th annual conference from Sept. 22-25, 2022 in person in Memphis, Tennessee. The theme of the conference is Transportation Equity! If anyone is interested in attending, speaking and/or suggesting speakers, please contact me at mdaus@iatr.global or at 646-261-1590. For more information, please visit www.iatr.global.
- Gail Yazersky from ACP60 – the Access Management Committee asked if AP020 would be interested in co-sponsoring an upcoming conference
- Renee Ray discussed the status of the TRB Conference on Sustainability and Emerging Transportation Technology, which will now be held May 31-June 3
- Renee Ray mentioned The Transit Tech Lab which provides a pathway for early and growth-stage companies to efficiently collaborate with the public sector to solve public transportation challenges. March 25 is the deadline for emerging technology companies to apply to participate in the program.
- Pooja Chaudhari from SAE discussed the current status of the Digital and Shared Mobility Committee as well as a recent standard for powered micromobility vehicles.
- Dianne Schwager from TRB/TCRP mentioned that the nomination of panel members for TCRP projects has been extended to February 28 and that Synthesis Problem Statements are due March 15.
- Carol Schweiger:
 - 2021 ITS World Congress Report: <https://itsworldcongress.com/the-congress-report/>

- o 2022 ITS World Congress in LA: <https://www.itsamericaevents.com/world-congress/en-us.html>
- o ASCE MOD and MaaS Committee: <https://www.asce.org/communities/institutes-and-technical-groups/transportation-and-development-institute/committees/transportation-and-development-institute/board-of-governors-t-di/emerging-technologies-council/mobility-on-demand-and-as-a-service-committee>
- o ITS America Mobility on Demand Committee: <https://itsa.org/s/mobility-on-demand/>