



*Transportation Research Board Annual Meeting*

**MINUTES**

*Traffic Flow Theory and Characteristics (ACP50) – Summer meeting*

Tuesday, August 23, 2022, 2:00 PM – 4:00 PM EST  
Virtual Meeting

Chair: L. leclercq

Minutes prepared by: S. Hamdar

*Please note that these minutes have a PowerPoint companion with more details included.*

**Attendees:** S. Ahn, R. Bertini, B. Coifman, R. Cunard, V. Gayah, S. Hamdar, R. James, L. Leclercq, H. Mahmassani, J. Sturrock, (...)

- 1- Prof. Leclercq called the meeting to order at 2:05 pm.
- 2- The meeting attendees from the committee's members were announced and the new members were welcomed. The committee is still seeking for a state DOT representative to join as a member.
- 3- R. Cunard presented the TRB report through a presentation where the following items were addressed:
  - a. 2023 TRB Annual Meeting updates with the theme: "Rejuvenation Out of Disruption".
  - b. COVID 19 Protocol.
  - c. Papers Handling.
  - d. 2022 Annual Meeting Attendance.
  - e. ARTS 2022 Conference.
  - f. 7<sup>th</sup> HCM Edition (E-Book and Hardcopy of 3 Volumes with CAV and Network Modeling Additions).
  - g. TRB Weekly Newsletter Subscription.
  - h. TRID Data Base.
- 4- Prof. R. Bertini noted that the "Blue-Ribbon" Award nominations can be made before September 15, 2022.
- 5- Minutes from the previous ACP50 meeting (held on January the 11th, 2022) were reviewed for formal adoption. A motion to approve the minutes was made and was seconded and approved unanimously.
- 6- J. Sturrock presented updates from FHWA:
  - a. Data related publications in process with expected release in the following 6-9 months (clustering analysis and AI models related publications).
  - b. Two active projects:

- i. National Highway Institute web-based Traffic Analysis Tool training with three paths (executive level, entry level practitioners and medium level seasoned professional).
    - ii. Proof of concept in applications of Traffic Analysis Toolbox 3 (microsimulation with 3 sites).
- 7- R. James presented updates on the Research and Operation Office of FHWA:
  - a. Data are being collected on Advanced Driving Assistance Systems (Ohio, Northern Virginia, Chicago and Washington DC)
  - b. Reports on multi-resolution modeling are released (3 reports)
    - i. The data will likely be available on the Repository and Open Science Access Portal.
  - c. Request on updates to be included in the ACP50 newsletters is made.
- 1- Prof. Leclercq presented the ACP50 Chair's report:
  - a. The next TRB Annual Meeting will be held in person in January of 2023:
    - i. Several lectern sessions per committee (compared to one in the previous year).
    - ii. Limited workshops per committee with preference for collaboration among several committees: ACP50 workshop on CAV applications in transit, freight and shared ride services scheduled for Sunday.
    - iii. Committee meetings to be held in person.
  - b. There were three Calls for Papers (CFP) sponsored by ACP50 for this upcoming TRB Annual Meeting: Connected and Automated Vehicles (CAVs), Macroscopic Fundamental Diagrams and Network Modeling, and Reproducible research.
  - c. 172 papers were received by the committee for review: this is considered as a further increase if compared to the 2021 and 2022 annual meetings.
- 2- The ACP50 Subcommittees' reports were presented:
  - a. Subcommittee on Connected and Automated Traffic Flow (ACP50-3: CAT-Flow): a report was presented by the Committee's chair, Prof. Samer Hamdar.
  - b. Research Problem Statements Subcommittee: a report was presented by Prof. Gayah:
    - i. The goals of the subcommittee and previous statements submitted were presented.
    - ii. Details on the process adopted for statements' development were offered and answers were provided on some questions with the need to involve state DOTs.
    - iii. Details on the NCHRP Synthesis program were introduced: discussions are invited with R. Cunard.
    - iv. Volunteering to develop topics/statements is appreciated after contacting Prof. Gayah.
  - c. Paper Review Subcommittee: figures on the 2023 TRB Annual Meeting review process lead by the ACP50 Committee were presented by Prof. Leclercq; all decisions will be made by early October, 2022.
  - d. Awards Subcommittee: a report was presented by Prof. Ahn:
    - i. For 2023, new process in place to improve and retain best research work with additional work for the subcommittee.
    - i. A recommendation was made to name the Best Paper on Traffic Flow Theory Award after Prof. Nathan Gartner: the recommendation was approved by the Committee.
    - ii. The 2022 Award for the Best Paper on Traffic Flow Theory was announced: (TRBAM-22-04077).
  - e. Mid-Year Meetings (by Prof. Leclercq): the 2023 midyear meeting will be held in the Netherlands and will be organized by TU Delft. The 2024 Theory (ISTTT 24) will be held at Ann Arbor, Michigan, USA.

- f. Outreach and Diversity Subcommittee: a report was presented by Prof. Hamdar: the newsletters, webinars, and website are being updated regularly. In terms of the TFTC Journal Club, a proposal (by Prof. Talebpour) will be submitted to the committee's chair for approval.
- 3- J. Sturrock and Prof. Ozbay provided updates on the ACP40 (Highway Capacity Quality of Service) Committee and the ACP80 (Traffic Simulation) Committee activities:
  - a. ACP80 is reviewing and providing committee-based comments on chapters of the Traffic Simulation Manual (TSM) to be addressed in a modified document.
  - b. The ACP40 midyear meeting held end of June, 2022.
  - c. The Highway Capacity 6.1 publication published in a printed form and in two searchable forms (pdf and e-pub). The update includes information on the CAVs with research focused on planning level adjustment factors.
  - d. 80 papers received by ACP80 for review.
  - e. An ACP80 TRB workshop is scheduled on Sunday.
  - f. The ACP80 midyear meeting will be held on October 11-13, 2022 (virtual).
- 4- The meeting was adjourned at 3:01 pm.