Welcome and Call to Order  

Introductions – Members & Friends  
• See sign-in sheet for full roster of attendance

Review and Approval of Minutes  
• Committee meeting of January 9, 2017
• Committee meeting of July 23, 2017

Diversity Statement on Behalf of TRB and NAS  

FHWA Programs and Activities  
• ATDM/DMA Testbed  
  o Reports available on JPO (Joint Program Offices) website  
  o Tools available on Research Data Exchange  
• Traffic Analysis Tools Volume III Revision  
  o Contract ongoing to develop workshop materials, deliver six workshops  
  o Tools being updated to incorporate reliability  
  o Guide being developed to evaluate performance objectives at the regional level  
  o Draft version to be released in Q1 or Q2 2018  
  o Final version to be released in 2019  
  o SHRP2 reliability methods to be implemented in five states  
• Trajectory Validation Engine Project
- Report should be published within the next six months
- Predictive Engine Report
  - Report currently being finalized and will be published soon
- TSSM picked up by Traffic Analysis and Simulation Pooled Fund study being supported by 13 states
  - Task Force on Systems Simulation helping to review materials
- FHWA developing guidance for use of simulation and analytical tools to evaluate impacts of CAVs

**TFTC Subcommittee Reports**

**SimSub**  
**M. Hadi**
- Sunday workshop
  - 8 presentations
- Best paper award
  - No theoretical paper award given this year
  - Applicabed-based paper award given to “Improving scalability of generic online calibration for real-time dynamic traffic assignment systems”
- Life-time award provided to Alex Skabardonis
- SimSub report provided by David Hale
- Potential collaborative activities between SimSub and ITE SimCap
  - Pedestrian and safety modeling
  - CAV and reliability outreach activities to the community; bridging the gap between research and practice
  - Consistent and reliable data sources

**Crowd flow dynamics**  
**W. Daamon**
- CFP received 16 papers
- Workshop to be held on Thursday of Annual Meeting
- Plans in place to write a book on the topic

**Connected Automated Vehicles**  
**S. Hamdar**
- CFP received 27 papers
  - 5 presented at lectern session
  - 8 poster presentations
  - 4 possible considerations for publication
• Sunday workshop
  o Data collection, experiments and instrumentation in Connected Multimodal Transportation Systems
• Automated Vehicle Symposium (AVS) 2017
  o Breakout session held on “Enhancing the validity of traffic flow models with emerging data”
    ▪ Report being prepared
  o 2016 AVS book chapter being published
  o 2017 and 2018 book chapters will follow
• Traffic and Granular Flow 2017: Role of technology in traffic flow modeling
  o 3 journal special issues being prepared (Journal of ITS, Journal of Traffic and Transportation Engineering, TR Part C)
• Data exchange platform and expertise library are works in progress (see website tftcav.seas.gwu.edu)
• Subcommittee name will be adjusted to reflect multimodal nature of committee not just vehicles (Connected and Automated Traffic Flow Modeling)

Paper Review

S. Ahn

• Special calls for papers
  o Four special calls this year
    ▪ Crowd dynamics: Empirical analyses, modeling, simulation and management
    ▪ Advances in modeling and traffic management for large-scale urban networks
    ▪ Connected multimodal transportation system modeling and simulation
    ▪ Multimodal system analysis and modeling
  o Special calls for 2019 AM due May 2018
• For presentation:
  o 194 papers received
  o 25 included in 5 lectern sessions
  o 84 included in 4 poster sessions
• For publication:
  o 129 papers received
  o 34 to be revised and resubmitted
  o 25 publication slots available
• Updated review timeline
  o August 1 – Papers due
  o August 20 – Reviews assigned
  o September 15 – Reviews due
  o October 15 – First round of recommendations made
    ▪ Accept
    ▪ Revise and resubmit
    ▪ Reject
  o November 15 – Revised papers due
  o December 15 – Second round of recommendations made
    ▪ Accept ‘minor revisions’ papers
    ▪ Re-review
    ▪ Reject
  o January 31 – Final decisions made
  o List of accepted papers presented and will be updated on committee website on an ongoing basis

• Inaugural best reviewer award presented to Christine Buisson

Chair Report  S. Ahn

• Committee activities at 2018 AM
  o 5 lectern sessions
  o 4 poster sessions
  o 4 workshops
    ▪ Doctoral student workshop
    ▪ Data-driven simulation to support decision making in the 21st century: Barriers and potential benefits
    ▪ Data collection, experiments and instrumentation in connected multimodal transportation systems
    ▪ ITS for crowd management: Recent advances in data and models

Paper Awards  L. Leclercq

• Dr. Grant Mickle award to TFTC paper
  o Paper number 00884: Improving street network efficiency by dynamically prohibiting left turns at signalized intersections
• Fred Burggraf award to TFTC paper
• Paper number 00887: Estimating the impacts of bus stops on transit signal priority on intersection operations: A queuing and variational theory approach

• Greenshields award:
  o Paper number 6081: Traffic state estimation with link-queue models

• Theoretical paper award:
  o Paper number 6294: Framework for deriving macroscopic demand function from microscopic models

• Please mention if papers are eligible for Burggraf award on cover page!

• Membership changes:
  o L. Leclercq will step down and M. Menendez will chair committee after this year
  o N. Gartner stepping down from committee
  o J. Kim joining committee

Midyear Meeting

S. Ahn

• 2018: August 7-9, 2018 at Woods Hole, Massachusetts, USA
  o Topic: Overcoming the current limitations of our traffic models
  o Simulation Manual Task Force Retreat being considered for August 10, 2018
  o Abstracts to be submitted April 15, 2018
  o Notification of acceptance July 1, 2018
  o May be associated with CFP with Transportation Research Part C
    ▪ Full papers due October 1, 2018
    ▪ Final decision by May 15, 2019 after two rounds of review
  o Classic paper retreat to be held in conjunction
    ▪ List of papers will be provided
    ▪ 3-4 will be selected and discussed
    ▪ PhD students and/or postdocs will lead discussion

• 2019: in Lausanne, Switzerland in conjunction with ISTTT23

• 2020: looking for options
  o Potentially with AVS in Denver?

Outreach and Diversity

A. Talebpour

• Newsletter (http://tftcnews.blogspot.com/)
Every 2 months **(please send news)**

- YouTube Channel (**https://www.youtube.com/user/AHB45/feed**)
  - 8 interviews
- Facebook page (**https://www.facebook.com/AHB45**)
- ISTTT22 paper webinars will start soon
- Committee website (**http://tft.eng.usf.edu/**)
  - Ali taking over update of website
- New seminar series on automated vehicles coming up

**MFD Data Quest**

J. Laval

- Data needed!
  - Many researchers indicated they would provide data but only one dataset has been provided
- New data hub: CAV data from companies and OEMs
  - Effort being supported by NSF
  - Need to get FHWA involved

**Liaison with Other Committees and Other News**

J. Sturrock

- Young members council E. Gonzales
- International L. Leclercq
  - Decision mobility game: A tool to study travelers’ choice behavior
  - Part of MAGnUM
  - Three 2-hour sessions organized in February, March and April
  - Data will be available to researchers upon project completion (2020)
- “Introduction to Traffic Flow Theory” text by V. Knoop
  - Free to download
  - Over 250 questions and solutions available
- Meetings of interest
  - AVS2018
    - July 9-12, 2018 in San Francisco
  - TFTC Midyear Meeting
    - August 7-9, 2018 in Woods Hole
  - 2nd Symposium on Management of Future Motorway and Urban Traffic Systems
    - June 11-12, 2019 in Ispra, Italy
TSSM Discussion

Key question: Is TFTC committee interested in being responsible for maintaining and updating the TSSM (Traffic Systems Simulation Manual) from now on?

Positives:
- Can be used to generate research statements / attract NCHRP projects that members of our community can participate in to update manual
- Manual would likely change rapidly and our committee might want to have a hand in shaping it for future years

Negatives:
- Final product has not been published yet so we do not know if it includes theories/methods that our community is interested in building upon
- Many activities required to keep a manual alive might not be of interest to this committee (e.g., editing, updating non-research components)

Tentative solution:
- SimSub committee serves as the home for the manual and handles the practitioner/maintenance side
- TFTC committee will create joint research committee with SimSub to help and contribute to theory and research needed to expand manual in future iterations

TRB Report

- 2019 AM Theme: Transportation for smart, sustainable and equitable future
- Sage publications taking over post-production of TRR
  - Can accept both Word and LaTeX files; LaTeX template forthcoming
  - Open access now an option for $3K/article
Papers will now only be available electronically, but will be uploaded as ready

Adjourn