AHB45(3) Subcommittee: Traffic Flow Modeling for Connected and Automated Vehicles

Outreach and Diversity Subcommittee

AHB45 Summer Meeting
Sydney, Australia
July, 2016
4 Lines of Action/Events in 2016/2017:

1. 2016 Automated Vehicle Symposium Breakout Session
2. 2017 Transportation Research Board Annual Meeting Events
3. Website and Outreach Platform to Industry
4. 2017 Traffic and Granular Flow Conference
Traffic Flow Modeling for Connected and Automated Vehicles – AHB45 (3)

1. Automated Vehicle Symposium Breakout Session (20 July, 2016; San Francisco, USA)
   a. **Title:** Traffic Flow of Connected and Automated Vehicles
   b. **Speakers:** Osman Altan (FHWA); Simeon Calvert (TNO); Hani Mahmassani (NU); and Jan-Niklas (CAMP) – academia/industry/public agency speakers
   c. Special interest in translating technology/industry standards/specifications into traffic flow modeling and simulation (continuation of TRB 2015 AHB45(3) Workshop)
2. 2017 Transportation Research Board Annual Meeting
Events (8-12 January 2017):

a. **Call for Papers:** Traffic Flow Modeling of Connected and Automated Transportation Systems (wider scope covering multiple modes of transportation and system level traffic)

b. **Workshop** proposals (Sunday January 8, 2017):
   
i. **Workshop 1:** *Active Transportation Operation and Demand Management in Connected/Automated Traffic Systems: Data Collection and Analytics, Modeling and Control* (4 co-sponsoring committees/subcommittees; linking supply and demand models)

   ii. **Workshop 2:** *Emerging Needs for Improving Simulation Models in The Immediate, Intermediate and Long-Term Horizons* (4 co-sponsoring committees lead by AHB45(1): looking into the different connectivity and automation levels of vehicles)
3. Website and Outreach Platform to Industry:
   a. Contact information of *industry personnel* (gathered through the AHB45(3) events at the TRB meetings and the AVS symposiums) synthesized to form an outreach platform (a special newsletter)
   b. **Platform** equivalent to a page posting latest research performed by the committee members/friends (with corresponding expertise) - visited by industry personnel/representatives for possible collaboration
   c. Platform part of **AHB45(3) website** (under construction: to be presented in 2017 TRB annual meeting)
4. 2017 Traffic and Granular Flow Conference (TGF’17)
   a. George Washington University - Main Campus, Washington DC, USA (19-21 July 2017)
   b. Conference ends Friday 21 July, 2017 – ISTTT 22 (Evanston, Illinois, USA – 1.5 hour apart) starts on Monday July 24, 2017 (i.e. same trip to the US for two conferences in order to encourage additional participation from non-US researchers)
   c. Conference theme (in line with AHB45(3) vision): From Nano-Particle Dynamics to Smart Cities: The Role of Technology in the Understanding of Systems Evolution
d. Important Dates:

ii. 01 August 2016: Call for Abstracts (website announced in upcoming newsletter)

iii. 30 January 2017: Deadline of Abstract Submission

iv. 01 May 2017: Notification of Acceptance

v. 29 May 2017: End of Early Bird Registration

vi. 03 July 2017: End of Registration

vii. 19-21 July 2017: Conference

viii. 02 October 2017: Full paper submission deadline
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4. 2017 Traffic and Granular Flow Conference (cont.)

e. The TGF’17 International Scientific Committee is being formed. If interested or for suggestions, please contact Professor Samer Hamdar at hamdar@gwu.edu.

f. The TGF’17 website is under construction. It will be launched on August 1st, 2016, along with the call for abstracts.

G. Topics including: connected and automated vehicles (CAVs); intermodal urban traffic; granular flow and dynamics of granular materials; Pedestrian detection and modeling; Evacuation dynamics; collective motion in biological; nano-particles and molecular dynamics; social networks; internet of things (IoT)
Special Thanks to AHB45(3) Committee/Volunteers:

- Xiaopeng (Shaw) Li
- Haizhong Wang
- Sue Ahn
- Robert L. Bertini
- Mark Brackstone
- Danjue Chen
- Samer Hamdar
- Steve Mattingly
- Menendez Monica
- Gabor Orosz
- Alireza Talebpour
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- Continuation of Activities Through a Transition Period:
  - Transition Period: Alireza Talebpour possibly taking the lead in the future
  - Newsletter (http://tftcnews.blogspot.com/): fewer contributions → two consecutive issues with each issue corresponding to two months (more follow-up needed)
  - YouTube Channel (https://www.youtube.com/user/AHB45/feed) (under construction)
  - List of contact expanded to include personnel from industry (working with AHB45(3) committee members/volunteers) → AHB45(3) Industry Outreach Platform
  - Facebook Page (Meead Sabri: https://www.facebook.com/AHB45)
  - TFT Website (Robert Bertini: http://tft.ceng.calpoly.edu/index.htm)
  - ISTTT21 Webinars (Xiaopeng Li)
Outreach and Diversity Subcommittee

• Special Thanks to:
  o Alireza Talebpour
  o Sasha Dong
  o Justin Schorr
  o Meead Saberi
  o Xiaopeng Li
  o Robert Bertini
  o Sue Ahn

(All TFT website/facebook page/newsletter/webinar contributors and readers)