Welcome to AHB45 Committee on Traffic Flow Theory and Characteristics

January 14, 2014
Please don’t forget to sign in!
January 15, 2013
Thanks to Sue Ahn for preparing the minutes!
Membership Update

Thank You to Members Rotating Off
  Michael Cassidy, Benn Coifman, Lily Eleftheriadou, Serge Hoogendoorn, Elizabeth Jones, Der-Horng Lee, Daiheng Ni, Markos Papageorgiou, Hesham Rakha, Robert Sheehan and Alex Skabardonis

New Committee Members
  Costas Antoniou, Vikash Gayeh, Michael Zhang, Koohong Chung, Yibing Wang, Winnie Daamen, Yanfeng Ouyang, James Sturrock

Young Members → Regular Members
  Jing Dong, Samer Hamdar and Monica Menendez

New Young Members
  Victor Knoop, Ethan Xuan and Meead Saberi

New Committee Secretary
  Soyoung Ahn
Membership Update

New Emeritus Member

Alex Skabardonis

Congratulations and Thank You!
Chair Report

- TRB 2014 “Transportation Research: Celebrating our Legacy, Anticipating our Future”.
- Always possible to update paper reviewer pool (476 members)
- State DOT and MPO involvement
- Desire to produce some products in next 2 years
- Nontraditional partner – Sebastien Blandin, IBM
Breakthroughs (see survey...)

- What are the top research breakthroughs in our domain in the past 20 years?
  - Availability of data (e.g. NGSIM)
  - Cell Transmission Model
  - Development of improved multi-lane and multi-class models, car following, understanding of capacity drop, management of uncertainty, macroscopic fundamental diagram

- Vision for research advancements in the next 10 years?
  - Integration of all modes
  - Better static and dynamic models at different scales exploiting pervasive data; integrated with safety, network control, emissions, vehicle technology and behavior

- Ideas for commemorating Celebrating our Legacy, Anticipating our Future at the TRB Annual Meeting in January?
  - Workshop
  - Special Podium Session
Former Leadership

- Predecessor committees
  - Committee on Traffic Flow Theory (1963-1970) TO-9
    - Daniel L. Gerlough, Planning Research Corp. (1963)
    - Donald E. Cleveland, University of Virginia (1964-1967)
  - Committee on Characteristics of Traffic Flow (1963-1970) TO-12
    - Harold L. Michael, Purdue University (1963-1964)
    - Joseph C. Oppenlander, University of Vermont (1964-1968)
    - Donald C. Capelle, Alan M. Voorhees and Associates, Inc. (05/01/1968-01/31/1970)
  - Committee on Speed Characteristics (1939-1963) TO-13A
    - Burton W. Marsh, AAA (01/01/1939-12/31/1954)
    - Harold L. Michael, Purdue University (01/01/1955-01/31/1963)
- Committee on Traffic Flow Theory and Characteristics (1971-present) AHB45
  - Donald G. Capelle, Alan M. Voorhees and Associates, Inc. (02/01/1971 - 01/31/1974)
  - John J. Haynes, University of Texas at Arlington (02/01/1980 - 01/31/1986)
  - Carroll J. Messer, Texas A&M University (02/01/1986 - 01/31/1992)
  - Hani S. Mahmassani, University of Texas at Austin (02/01/1992 - 01/31/2000)
  - Nathan H. Gartner, University of Massachusetts Lowell (02/01/2000 - 04/14/2009)
  - Robert L. Bertini, Portland State University (04/15/09 - 04/14/2015)
Former Leadership

D.L. Gerlough
1963

Donald Cleveland
1964-1967

Harold Michael
1963-1964

Joseph Oppenlander
1964-1968

Donald Capelle
1968-1974

Kenneth Crowley
1974-1980

John Haynes
1980-1986

Carroll Messer
1986-1992

Hani Mahmassani
1992-2000

Nathan Gartner
2000-2009
Previous Contributors

- 1964 Monograph: D.L. Gerlough and D.G. Capelle, Editors
  - L.A. Pipes
  - M.J. Lighthill and G.B. Whitham
  - E.W. Montroll and R.B. Potts
  - D.E. Cleveland and D.G. Capelle
  - D.L. Gerlough
  - R.S. Foote
  - Oversight: Cleveland, Foote, Gerlough, Robinson, Galliher, Montroll, Newell and Rothery

- 1975 Monograph: D.L. Gerlough and M.J. Huber
Previous Contributors

- 2001 Monograph
  - Gartner, Messer, Rathi
  - Hall
  - Koppa
  - Rotherapy
  - Kuhne, Michalopolous, Zhang
  - Williams
  - Ardekani, Hauer, Jamei
  - Troutbeck, Brilon
  - Roupnail, Tarko, Li
  - Lieberman, Rathi
  - Nelson
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2014 Annual Meeting Highlights

- As of last week, almost 10,000 pre-registrations were received (about the same as last year when we set an attendance record of 11,700+ total attendees).
- The technical program consists of 450 lectern sessions, 195 poster sessions, 135 workshops and more than 500 committee meetings.
- More than 35 sessions on "Transportation Research: Celebrating our Legacy. Anticipating our Future" - the spotlight theme for the meeting.
- Committees also developed sessions on the following "hot topics" drawn from the recently published "TRB Critical Issues in Transportation":
  - Extreme weather events (16 sessions);
  - Big data (26 sessions);
  - Performance management (20 sessions); and
  - Automated/connected vehicles (16 sessions)
Get the Most Up-to-date Annual Meeting Information

- Mobile App for iOS and Android mobile devices – resident App, no internet required to operate. Updated with most current information as of January 8th
  - Complete Annual Meeting schedule of events, program participants, floor plans, exhibitors, and more.
  - Searching the entire TRB Annual Meeting program is simple. Use filter options to view by Day/Time, Event Type, Subject Area, Committee, Program Participant, Exhibitor, or take advantage of the full text search.
  - See “What is Happening Now” at any time.
- Find where you are going with the Interactive Floor Plans of the hotels and Exhibit Hall. Links in Sessions, Meetings, and Exhibitor listings pinpoint their locations.
- Create a “My TRB” personalized program to sort through and select from the many concurrent activities to customize content important to you.
- Add a non-TRB event to your “My TRB” (New this year)
- Export an event to your mobile device Calendar (New this year)
- Take notes in the App during a Session or Meeting to have for your use later or export by email from “My TRB” to share with colleagues.
- Create custom Tags, such as “useful for new research project, download presentation” and attach them to Sessions, Meetings, Presentations, Program Participants, and Exhibits.
- Share content that you find important or note-worthy with others–simply export to email.
- Go green! The state-of-the-art TRB Mobile App allows us all to reduce our reliance upon the printed Final Program – thus saving trees!
- You could also use the TRB web-based Interactive Program to assist you in deciding which events to attend during the Annual Meeting. Search events by subject area, day, session or paper title, keywords, program participant name, committee, event type, and other features.
- PDFs of the Final Program and Program Participants List are also available online for downloading
TRB Annual Meeting Compendium of Papers Continues Online

- TRB Online is FREE to TRB Annual Meeting registrants, TRB Sponsors, and Annual Meeting Patrons; for others, there is a modest fee to access the following information:
  - Compendium of Papers: Viewing and downloadable access to more than 9,000 papers presented at the various Annual Meetings.
- During 2013 TRBOnline had >130,000 visits, >88,000 unique visitors, >625,000 page-views; from over 180 countries. The largest single day >2,300 visitors
- Access to the online Compendium of Papers will soon be available for download at no charge to registered attendees.
- Over 5,200 written papers were submitted (~700 Operations related)
  - More than 20,000 reviews were completed by October 1
  - >2900 papers have been approved for presentation (57%)
  - 978 papers in podium sessions (34%)
  - 1872 papers in poster sessions (64%) (80% for Operations)
  - 73 papers in committee meetings or other event (2%)
  - ~2200 invited presentations or panel discussions
  - >5100 Speakers from >2500 agencies/organizations
TRB Annual Meeting Moves to DC Convention Center in 2015
The 94th TRB Annual Meeting will be held January 11-15, 2015 at the DC Convention Center and Marriott Marquis Hotel.

How does the Annual Meeting benefit by the move?
- We do not have to further break the Annual Meeting into separate parts
- We can better take advantage of today’s communications technologies
- We can meet under one roof
- We can group event locations by major interest areas
- Areas for networking will be provided
- Hotel costs will be kept at the federal government per diem
- Access to the Metro eliminates the need for shuttle buses
- We will have internet access throughout the venues
- There will be more food outlets
- There will be easier navigation for disabled/older attendees
TRB Webinar Series

- Presented 63 TRB webinars in 2013 to disseminate results of research by TRB and other organizations
- With the continuing travel restrictions being imposed by state DOTs and other organizations TRB continues to focus on alternative methods for getting information to those who cannot attend our conferences, workshops, meetings, etc.
- TRB has just created the position of Distance Learning Program Coordinator who will provide a full-time focus on this effort
TRR Update

- ISI Impact Factor = 0.441 for 2012
- TRR ranks 25 out of 30 Transportation Science and Technology journals
- See other measures
- 643 articles published in 2012 (next two journals 393 and 164)
- High half lives
- We are posting lists of our committee TRR published papers
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<td>Classic/Historic Papers</td>
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<td>10.</td>
<td><strong>NEW</strong>: Crowd Flow Dynamics, Modeling, and Management</td>
<td>Sarvi/Hoogendoorn</td>
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SimSub Website:
http://sites.google.com/site/trbcommitteeeahb45/
To join, send email to:
TRBCommitteeAHB45@gmail.com
Within few days you will get an invitation to join
"Friends of SimSub" which is a Google group through which we post announcements and distribute emails about SimSub activities.

2014 Sunday Simulation Workshop: Simulation: Looking Back and Looking Ahead
SimSub

- Sunday Workshop
  - 2014 → TR Circular
  - 2015 Topic?
- Newsletters
- Task Groups and Chairs
- 2014 SimSub Webinars
  - Miranda Wells (HDR) needs topics – we are ready to go otherwise!
  - miranda.wells@hdrinc.com
1. Driver behavior in response to advanced strategies (both existing and emerging)
2. Collection of NGSIM-Type databases
3. TFT/Simulation Models that deal with variations in driver behaviors under different congestion levels/congestion types/instability in flows and develop models that produce vehicle trajectories that better reflect driver behaviors under different conditions (e.g., for emission/safety modeling)
5. Dealing with connected and autonomous vehicles
Thanks to subcommittee members authors and reviewers!
Special Calls for Papers

- 50 Years of Traffic Flow Theory: Achievements and Challenges
  - Prof. Ludovic Leclercq (University of Lyon, IFSTTAR / ENTPE)
  - Dr. Femke van Wageningen-Kessels (Delft University of Technology)
  - Prof. Hani Mahmassani (Northwestern University)
  - Prof. Nathan Gartner (University of Massachusetts)

- Crowd Dynamics: Empirical Analyses, Modeling, Simulation and Management
  - New subcommittee
  - Prof. Majid Sarvi (Monash University)
  - Joint with ANB80T - Emergency Evacuation

- Urban Traffic Modeling and Management Using the Macroscopic Fundamental Diagram
  - Prof. Nikolas Geroliminis, EPFL, Switzerland
  - Prof. Vikash Gayah, PennState, USA
  - Prof. Victor Knoop, TU Delft, Netherlands
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Lectern Sessions: We have five lectern sessions this year:
1. 219 Crowd Dynamics: Empirical Analyses, Modeling, Simulation and Management  Monday 8:00-9:45 AM Marriott Salon 3 (best papers from our special call)
2. 534 50 Years of Traffic Flow Theory: Achievements and Challenges  Tuesday 10:15 AM-12:00 PM Marriott T. Marshall West: This will be a very special Spotlight Session to celebrate our committee’s 50th birthday! Join us for birthday cake!
3. 711 Urban Traffic Modeling and Management Using the Macroscopic Fundamental Diagram  Tuesday 7:30-9:30 PM Marriott Delaware A (best papers from special call)
4. 735 Macroscopic Approaches to Traffic Flow  Wednesday 8:00-9:45 AM Marriott T. Marshall West
5. 783 Microscopic Approaches to Traffic Flow  Wednesday 10:25 AM-12:00 PM Marriott T. Marshall West

Poster Sessions: Five poster sessions:
1. 365 Crowd Dynamics: Empirical Analyses, Modeling, Simulation and Management (response to special call for papers) Monday 2:00-3:45 PM Marriott Salon 2
2. 512 50 Years of Traffic Flow Theory: Achievements and Challenges (response to special call for papers) Tuesday 8:30-10:15 AM Marriott Salon 2
3. 514 Advances in Traffic Flow Theory and Characteristics Part 1, Tues 8:30-10:15 AM Marriott Salon 2
4. 517 Urban Traffic Modeling and Management Using the Macroscopic Fundamental Diagram (response to special call for papers) Tuesday 8:30-10:15 AM Marriott Salon 2
5. 841 Advances in Traffic Flow Theory and Characteristics Part 2, Wed 2:45-4:30 PM Marriott Salon 2
Workshops

**Sunday Workshops**: this year we are sponsoring or co-sponsoring three Sunday Workshops:

1. **Workshop 103** *Crowd Flow Dynamics, Modeling and Management* Sunday 9:00 AM-12:00 PM Marriott Washington B5. Help kick off our new subcommittee and research agenda with an engaging session.

2. **Workshop 172** *Simulation: Looking Back and Looking Ahead* Sunday 1:30-4:30 PM Marriott Washington B5. Join us for the annual SimSub workshop and get there early since there will be a big crowd. This year’s spotlight workshop will focus on "Celebrating our Legacy, Anticipating our Future."

3. **Workshop 177** *What Are Transportation Operations and Why Should I Care?* Sunday 1:30-4:30 PM Marriott Washington B4. This workshop cosponsored with the Young Members Council will focus on engaging new and young members to the transportation operations field.
Miscellaneous

- Unofficial LaTeX template (from Femke and Eric):
  https://www.writelatex.com/docs?template=trb
This paper proposes a cross-comparison of first and second order traffic flow models and assesses their capabilities to accurately reproduce experimental observations on freeways. This paper addresses a very relevant question in the traffic flow theory community because such kind of models are often separately studied and validated. The advantages and drawbacks of first order versus second order models have been debated for a long time within the traffic flow community and this paper provides an elegant contribution to a better definition of the domain of relevance of both approaches. This paper should then contribute to improve the knowledge on best practices when dynamic traffic simulation is needed.
Greenshields Prize 2014

- Papers/presentations being reviewed this week
- Announcement at mid-year meeting in Portland
Cunard Award for 2013

2013 Best 1st Young Author Paper in the area of Operations:
Inhomogeneous Flow Patterns in Undersaturated Road Networks and Implications for Macroscopic Fundamental Diagram

Jean C. Doig Godier
University of California, Berkeley

Co-authors:
Vikash V. Gayah
Pennsylvania State University
Michael J. Cassidy
University of California, Berkeley
**TRB Wide Awards**

**D. Grant Mickle Award**
- Established 1976
- Outstanding paper published in the field of operation, safety, and maintenance of transportation facilities.
- Honors fifth executive director, later 33rd Executive Committee Chair

**Fred Burggraf Award**
- Established 1966
- Stimulate and encourage young researchers
- Recognition of excellence in transportation research by researchers 35 years of age or younger whose papers have been published under the sponsorship of any Division A Standing Group
- Accompanied by a cash prize
- Honors TRB director from 1951-1964
Eligibility of Papers for Awards (2014)

Many ‘young’ first authors submit excellent papers

Few papers are eligible for Burggraf award

Data requirement for Greenshields prize is restrictive

Room for a second TFTC award?
Proposal for New TFTC Award

Greenshields Prize Criteria
- Novelty / Originality
- Experimental Evidence
- Quality of the Writing
- Practical Applications
- Presentation and Publication

Proposed Prize for Theoretical Papers
- Novelty / Originality
- Quality of the Writing
- Potential Applications
- Theoretical Foundations
- Presentation and Publication

Another option is to dedicate a new prize to young authors
Mid-Year Meetings

- 2007 ISTTT London (in pub)
- 2008 Greenshields Symposium, Woods Hole
- 2009 ISTTT Hong Kong (lunch table)
- 2010 Does Traffic Data Support Traffic Models? Annecy, France
- 2011 ISTTT Berkeley (one hour w/SimSub)
- 2012 Joint Summer Meeting with HCQS Committee, June 19-22, Fort Lauderdale, Florida
- 2013 ISTTT, July 17-19, Noordwijk, the Netherlands
- 2014 Portland, Oregon, USA, Symposium Celebrating 50 Years of Traffic Flow Theory
- 2015 ISTTT Kobe
- 2016 TBA – International? Discussion
- 2017 ISTTT Chicago
Summer 2014 Portland

- Call for papers is out
- Website is up: www.tft.pdx.edu/tft50
- Important Dates:
  - **March 1, 2014**
    - Extended Abstracts Due
  - **April 15, 2014** Authors Notified of Paper Decisions
  - **July 25, 2014** Papers Due for Conference Proceedings
Special Journal Issues

Best papers will be published in:

- Transportmetrica B
- Journal of Intelligent Transportation Systems

All presented papers will appear in a special TR Circular

Special thanks to the journal editors for their support!
Venue
Mid-Year Meeting 2014 Portland

Symposium Organizing Committee:
Robert Bertini, Portland State University, Chair
Ludovic Leclercq, Université de Lyon, IFSTTAR / ENTPE
Nikolas Geroliminis, École Polytechnique Fédérale de Lausanne
Haizhong Wang, Oregon State University
Victor Knoop, Delft University of Technology
Vikash Gayah, The Pennsylvania State University
Yanfeng Ouyang, University of Illinois at Urbana-Champaign
Soyoungh Ahn, University of Wisconsin
Ronghui Liu, University of Leeds
Tegan Enloe, DKS Associates
**Symposium Vision**

Theme: Celebrating 50 Years of Traffic Flow Theory

<table>
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<th>Monday 11 Aug</th>
<th>Tuesday 12 Aug</th>
<th>Wednesday 13 Aug</th>
<th>Thursday 14 Aug</th>
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<td>Opening Session/Invited Presentations</td>
<td>Technical Session</td>
<td>Committee Meeting Closing Session/Panel Discussion</td>
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<td>Technical Session</td>
<td>Workshop (FHWA or Simulation Roundtable)</td>
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<td>Welcome Reception</td>
<td>Optional Activities</td>
<td>Symposium Dinner</td>
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Possible “Fun” Activities

- Bridge Pedal Sunday August 10, 2014
  - Need to register
  - 10-, 8-, and 6-bridge options
- 4T Trail (Train, Trail, Tram and Trolley)
- Bike Tour
- Food and Beer Tour
- Architecture Tour
- Excursion to Multnomah Falls and Mt. Hood
- Microbrewery Tour
- Wine Country Tour
- International Rose Test Garden
- Portland Art Museum Exhibition on The Art of the Louvre’s Tuileries Garden
Support the Symposium

- Platinum ($2,500) Gold ($1,500) Silver ($1,000) Bronze ($750)
- Benefits of your support will include: organization’s name listed as a Patron in conference program; distribution of company literature in the registration area; moderator acknowledgement at the opening and closing sessions; displays at various conference functions indicating the level of your contribution; and complimentary registration for one member of your organization.
- Symposium patrons who have committed so far include:
  - David Evans and Associates (Platinum)
  - Aimsun/TSS (Bronze)
- Symposium Sponsored By:
  - Transportation Research Board
  - Portland State University
  - Oregon Transportation Research and Education Consortium
  - Oregon State University
  - Oregon Modeling Steering Committee
  - ITE Oregon Simulation Roundtable
See you in Portland!
2016 Summer Meeting Discussion
Mission:
To promote networking and better involvements of overseas professionals in China and other countries in transportation development.

A registered non-profit professional organization, formerly NACOTA, established in 1996. Its members and friends come from all over the world.

Plan for 2016 AHB45 Mid-year Meeting in Beijing
Collaborative Opportunity between AHB45 and COTA

Heng Wei, Ph.D., P.E., President of COTA
Associate Professor, The University of Cincinnati
COTA International Conference of Transportation Professionals (CICTP): The largest and influential professional transportation conference in China, and a platform to achieve COTA’s mission.

CICTP was initialized in 2001 (formerly, ICCTP – International Conference of Chinese Transportation Professionals)

- 2014: Changsha, Hunan (Central South University)
- 2013: Shenzhen, Guangdong (Tsinghua Graduate School in Shenzhen and Shenzhen University)
- 2012: Beijing (Beihang University & Research Institute of Highway, China Ministry of Transport)
- 2011: Nanjing, Jiangshu (Southeast University)
- 2010: Beijing (Beijing University of Technology)
- 2009: Harbin, Heilongjiang (Harbin Institute of Technology)
- 2008: Chengdu, Sichuan (Southwest University)
- Other cities prior: Shanghai (Tongji University), Dalian (Dalian University of Technology), Xian (Chang’an University), Wuhan (Wuhan University of Technology), etc.
CICTP2012/13 Programs include:

- Technical paper lectern and poster sessions
- Keynote Speech Session (by internationally prestigious scholars and experts)
- TRB Standing Committee Chairs Forum
- COTA-ASCE T&DI Forum
- COTA-World Bank China Transportation Development Forum
- Governmental Forum
- (China Transportation College) Deans Forum
- Chinese Yong Scholars Forum
- COTA Workshop on Research and Education
- Technical Exhibition
- Special issue of ITS will be created from excellent papers of the CICTP2012/2013 Proceedings.
- Technical tours and sightseeing of historical and interesting spots
Internationally Invited VIP Speakers

- Prpf. Michael Walton
- Prof. Kumares C. Sinha
- Prof. Chris Hendrickson
- Dr. Robert Pertini
- Dr. Markos Papageorgiou
- Dr. James Moore
- Dr. Michael Zhang
- Dr. Srinivas Peeta
- Dr. Asad Khattak
- Dr. David Noyce
- Dr. Larry Head
- Dr. Christoph Stiller
- Dr. Matthew G. Karlaftis
CICTP2013 in Shenzhen, China
Benefits in coordination with the CICTP 2016:

- Mutual Promotion – attract more paper submissions and interesting audience (in particular of China) for both meetings to be held together or at close times.
- Broader Impact – more potentials will be exposed to international scholars/experts who are interested in exploring international collaboration with Chinese colleagues and institutes.
- Support Efficiency – Leveraging supports of meeting venue facility and logistic, as well as technical tours from the CICTP host.
- Other Assistances – COTA and local hosts can provide assistances to meet needs of logistic and sightseeing tours from international participants.
Beijing Jiaotong University – Intended Host

- In 1981, BJTU confer master and doctoral degrees authorized by the central government. BJTU enroll overseas students.
- BJTU has 22 research institutes and centers and 38 laboratories in a variety of academic fields (including two best and largest labs in China: Traffic and Transportation Simulation Laboratory and Transportation Automation Laboratory)

Possible sponsors or supporters:

- China Ministry of Transportation:
- China Transportation and Highway Society
- China Natural Science Foundation
- China Transportation (Communication) News
Chinese authors are mostly interested in SCI publications. It would be more attractive to authors if the opportunity will be available to consider publishing top selected papers in special issues of top SCI journals.

COTA will go through “bid for hosting CICTP 2016” procedure among Chinese universities or research institutes by the end of 2014.

Alternative:
- Beijing University of Technology (with excellent conference hotel on campus) would be willing to host the AHB45 midyear meeting in case the above proposed plan cannot be archived for some reasons of the CICTP 2016 host is granted to.
- In addition, it may be coordinated with the time of WCTR that will be held in Shanghai (hosted by Tongji University).
Traffic Flow Theory and Characteristics Committee (AHB45)

2016 Summer Meeting - August 2016
Proposal for
Gold Coast, Queensland Australia
Surfers Paradise
Gold Coast
Why Australia

Best timing:
This is a convenient time for colleagues coming from northern hemisphere. In August, most of the participants (especially those coming from US, Europe and Asia) could combine the event with their summer vacation.

Location:
It is proposed to hold the symposium at Surfers Paradise, Gold Coast, in Queensland. This is an attractive and well known holiday resort in Australia.
Why Australia

Some of the attractions:
- Sea World
- Movie World
- Wet and Wild
- Dreamworld
Why Australia

**Access:**
The Gold Coast region is serviced by the Gold Coast International Airport, with frequent domestic services from Melbourne, Sydney, Adelaide, and International services from New Zealand, Japan and Asia. Brisbane's International Airport also provides smooth links with the United States and Europe.
Outreach and Diversity

- The AHB45 newsletter is well established and being further developed.
- Common activities with the American Society of Civil Engineers (ASCE) are being discussed (e.g. conferences and workshops).
- The subcommittee is trying to attract members from industry (Google, Volkswagen America and TomTom) to participate in our activities and possibly join our committee.
- The PEPSub subcommittee will be integrated into the Outreach and Diversity subcommittee (special thanks to Professor Hans van Lint).
- The subcommittee is continuously using social media (Google, Facebook) to communicate with members and friends (special thanks to Dr. Meead Saberi from the Webinars Subcommittee).
- Thanks to Jing Dong, Vikash Gayah, Meead Saberi, Ethan Xuan, Stephen Mattingly, and Monica Menendez.
Newsletters

- Launched July 2013
- 5 issues in 2013
- See January 2014 issue
- Archived at: [www.tft.pdx.edu/news.php](http://www.tft.pdx.edu/news.php)
- Contact Prof. Samer Hamdar ([hamdar@gwu.edu](mailto:hamdar@gwu.edu))
- What do you want to see?
- Volunteers?
- Ideas/Suggestions/Input welcome!
Friends Google Group

Join Our Committee Friends List!

Click here: https://groups.google.com/d/forum/tft_friends?hl=en

Our committee relies on an active and important group of friends who participate in our meetings and webinars, serve as paper reviewers and volunteers on projects including mid-year meetings, cooperation with other committees and other special products and projects. Our Friends list currently consists of about 650 members worldwide.

We are moving our email list from tft_friends@lists.pdx.edu to a Google group tft_friends@googlegroups.com. You will soon receive a notification email on being added to the new tft_friends group. The previous email list will no longer be active. To modify your membership settings, you can visit: https://groups.google.com/d/forum/tft_friends?hl=en

Click Here to Find Committee Friends
(Google Doc)

- To join the group visit: https://groups.google.com/d/forum/tft_friends?hl=en
- To post to this group, send email to tft_friends@googlegroups.com
- To unsubscribe from this group, send email to tft_friends+unsubscribe@googlegroups.com
- For more options, visit https://groups.google.com/d/forum/tft_friends?hl=en
Committee Communications

- TFT Facebook Page: 421 “Likes” (up from 304 last year)
- www.facebook.com/AHB45
Facebook Update
Webinars

- 38 webinars total since 2010
- 11 webinars in 2013
- Presenters from the U.S., Ireland, Netherlands, and Greece. (in 2013)
- Average number of attendees = 30
- Special thanks to Jorge Laval and Meead Saberi
Webinars

- List of 35 Archived Webinars since 2010: https://docs.google.com/spreadsheet/ccc?key=0AuX5B7unfMSEdDJQUTl1VGtxZ3lUREMyX0tRQlkzOVE&usp=sharing
- Webinar Google Calendar: https://www.google.com/calendar/embed?src=fjpilf4qddonoo8r94isp3qsr4%40group.calendar.google.com&ctz=America/Chicago
- Vision for 2014
  - One webinar per month
  - Greenshields Prize
  - Highly cited author
  - ISTTT
  - TRB
  - Looking for volunteer to cover webinar subscription ~$100
Website

- News Items and RSS Feed
- Anyone can contribute items
- Revised 2001 Monograph
- 1964 and 1975 Monographs
- Greenshields Symposium 2008 TR Circular
- Greenshields Prize page
- Historic Papers
- Meeting Materials
Strategic Planning 2015-2018

- Bertini and Ahn and ?
- Need to draft Triennial Strategic Plan later in 2014
- Highlights
  - Primary Activities
  - Committee Membership and Management
  - SimSub
  - Traffic Flow Characteristics
  - Research Problem Statements
  - Communications and Outreach
- Think “products”
- Engage non-traditional partners/participants who can’t travel
TFT Historic Papers

- 520 papers and 60 issues of HRR/TRR since 1963
- Some topics now covered by newer committees
- Predecessor committees:
  - Committee on Traffic Flow Theory (1963-1970)
  - Committee on Characteristics of Traffic Flow (1965-1970)
  - Committee on Speed Characteristics (1963-1965)
- Lists available via website on Google Docs
- Comments – have any papers influenced research and practice?
- Are any papers highly cited?
- Literature review or annotated bibliography?
TRR Timeline
TRR by TFTC Committee

Traffic Flow Theory and Characteristics
No verified email

Citation indices

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This is the number of citations to all publications. The second column has the "recent" version of this metric which is the number of new citations in the last 5 years to all publications.

520 Papers in 60 Issues
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<td>ALINEA: A local feedback control law for on-ramp metering</td>
<td>M Papageorgiou, H Hadj-Salem, JM Biosseville</td>
<td>417</td>
<td>1991</td>
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<td>Simulation laboratory for evaluating dynamic traffic management systems</td>
<td>Q Yang, HN Koutsopoulos, ME Ben-Akiva</td>
<td>258</td>
<td>2000</td>
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<td>Flow processes at a freeway bottleneck</td>
<td>JH Banks</td>
<td>169</td>
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<tr>
<td>MAXBAND: A program for setting signals on arteries and triangular networks</td>
<td>JDC Little, MD Kelson, NH Gartner</td>
<td>163</td>
<td>1981</td>
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<td>Cellular automata microsimulation of bidirectional pedestrian flows</td>
<td>VJ Blue, JL Adler</td>
<td>157</td>
<td>1999</td>
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<td>Effect of adverse weather conditions on speed-flow-occupancy relationships</td>
<td>AT Ibrahim, FL Hall</td>
<td>155</td>
<td>1994</td>
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<tr>
<td>Emergent fundamental pedestrian flows from cellular automata</td>
<td>VJ Blue, JL Adler</td>
<td>138</td>
<td>1998</td>
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<tr>
<td>General lane-changing model MOBiL for car-following models</td>
<td>A Kesting, M Treiber, D Helbing</td>
<td>137</td>
<td>2007</td>
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<tr>
<td>Non-integer car-following models</td>
<td>AD May, EM Hamut</td>
<td>126</td>
<td>1967</td>
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<td>Signal timing determination using genetic algorithms</td>
<td>MD Foy, RF Benekohal, DE Goldberg</td>
<td>121</td>
<td>1992</td>
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ISTTTT Google Scholar

International Symposium of Transportation and Traffic Theory
Unknown affiliation
Transportation and Traffic Theory
Verified email at engr.psu.edu

Citation indices

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Citations to my articles

645 Papers
Thanks to Vikash Gayah
Updates on Citation

Ethan Xuan
Vikash V. Gayah
Mark Brackstone
Costas Antoniou
Google Scholar pages

• TRR papers sponsored by TFTC
  
  http://scholar.google.com/citations?hl=en&user=Lf548q0AAAAJ
  – 520 papers / 60 issues
  – 11K citations, h-index: 52, i10-index: 271

• ISTTTT papers
  
  http://scholar.google.com/citations?user=nWTW9U0AAAAJ
  – 645 papers / 20 symposia
  – 12K citations, h-index: 52, i10-index: 275
Impact Factor

• TRR papers sponsored by TFTC

![Impact Factor Chart]

- 2009: TRR by TFTC = 0.267, TRR = 0.298
- 2010: TRR by TFTC = 0.6, TRR = 0.482
- 2011: TRR by TFTC = 1.135, TRR = 0.471
Survey

• Background
  – Part of internal discussions on the possibilities to correctly represent and/or increase the impact of work by TFTC

• Purpose
  – Gauge the opinions inside TFTC

• Response
  – 77 responses with 20 comments
Survey

• Should TRB provide publication copyright (i.e. ISBN) to TRB compendium of papers (accepted for presentation)?
Survey

• Should TRB make TRB database public available for publishers to consult and index?
Survey

• Should TFTC provide the list of papers accepted for publication but not yet published to facilitate citation?
Survey

• Should TFTC provide early citation info, e.g., Record Number, page number if possible to help earlier citation?
Recommended Actions

• What TFTC can do
  – Provide the list of papers accepted for publication but not yet published
  – Provide author contact information/abstracts

• What TFTC can petition TRB to do
  – Reduce publication “lag”
    • In interim, provide early citation information such as record number and page number ASAP
  – Discuss the purpose of TRB compendium papers
    • Option 1: no ISBN, idea exchange
    • Option 2: ISBN, higher quality
    • More said yes to Option 2, but strong opinions on both sides
Special Report on TFT

1964

1975

2001
Activity Report
(Majid Sarvi, Serge Hoogendoorn, Winnie Daamen)
Subcommittee’s aims and objectives:

1. Brings together scientists and practitioners from different disciplines working on crowd flow theory, modeling, operations, and management.

2. Further theoretical development and understanding of crowd dynamics.

3. Focus on application perspectives in flows and crowd management and design of crowd/pedestrian facilities.
Subcommittee's key themes

- Crowd flow dynamics
- Crowd modeling and simulation
- Management of pedestrian flows
Membership, posting all workshop presentations, list of papers in crowd themes for both podium and poster sessions, etc.
Special call-for-papers

• Crowd dynamics: empirical analyses, modeling, simulation, and management

• 18 papers received

• 1 podium session
  – Session 219, Monday, January 13, 2014 8:00AM - 9:45AM
  – Marriott, Salon 3

• 1 poster session
  – Session 365, Monday, January 13, 2014 2:00PM - 3:45PM
  – Marriott, Salon 2
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9:00</td>
<td>Wellcome</td>
<td>R. Bertini</td>
</tr>
<tr>
<td>9:10</td>
<td>Subcommittee activities in the last year</td>
<td>W. Daamen</td>
</tr>
<tr>
<td>9:20</td>
<td>Simulation of crowds</td>
<td>H. Mahmassani</td>
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<tr>
<td>9:40</td>
<td>Mathematical modelling of crowds</td>
<td>P. Goatin</td>
</tr>
<tr>
<td>10:00</td>
<td>Empirics of crowds</td>
<td>A. Seyfried</td>
</tr>
<tr>
<td>10:20</td>
<td>Crowd challenges at train stations</td>
<td>J. van den Heuvel</td>
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<tr>
<td>10:40</td>
<td>Practical issues in crowd management</td>
<td>T. Kretz</td>
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<td>11:00</td>
<td>Group behavior in crowd</td>
<td>G. Vizzari</td>
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<tr>
<td>11:20</td>
<td>Round table discussion on key critical issues and main tasks of the committee</td>
<td>S. Hoogendoorn and M. Sarvi</td>
</tr>
</tbody>
</table>
Subcommittee future agenda

- Research challenges
- Set-up a list of critical issues
- Future topics/List
- Joint research agenda based on identified critical issues
- Subcommittee main activates considering the topics above
Liaison With Other Committees
International Liaison

- NEARCTIS
- MULTITUDE
- MOCoPo Website

W. Daamen    V. Punzo    C. Buisson
Announcements/Future Meetings

- Midyear Meeting and Symposium Celebrating 50 Years of Traffic Flow Theory
  - August 11-13, 2014
  - Call for Papers now open www.tft.pdx.edu/tft50
- ISTTT21 Kobe, Japan Call for Papers now open
Future Meetings

**ISTS & IWTDCS**

*June 1-4, 2014 * Ajaccio, Corsica (France)

International Symposium on Transport Simulation
International Workshop on Traffic Data Collection and its Standardisation

**FNTPE**

*Announcement*

*Call for Abstracts*

**IFSTTAR**

**Save the date!**

Following the success of the previous editions of both the International Symposium of Transport Simulation (ISTS) and the International Workshop on Traffic Data Collection and its Standardisation (IWTDCS), ISTS14 and IWTDCS14 aim to gather the world’s transportation and traffic academics and practitioners, as well as people who are interested in contributing to or gaining a deeper understanding of the data collection, its standardisation and the transport simulation field.

During the three-day conference plenary sessions featuring high level speakers and interactive breakout sessions will take place at the Conference Centre of Ajaccio (Corsica, France), where participants will have the opportunity to mingle with those at the forefront of data collection, standardization, transport simulation thought, practice, and implementation as well as to exchange ideas and best practices.

This event will focus on scientific challenges and issues raised by new theoretical development in the transport fields as well as new advances in Mobility Data Collection and smart processing tools.

The ISTS14 and IWTDCS14 will be organised by the Traffic Engineering Laboratory (LCTE), a joint Research Lab of FNTPE (the Post-graduate School of Civil Engineering, Transport and Sustainable Development) and IFSTTAR (a French Research Institute in the areas of Transportation, Urban and Civil Engineering, Construction Materials and Natural Hazards).

**Key dates**

<table>
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<tr>
<td>January 30th, 2014</td>
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<tr>
<td>Extended Abstract Submission</td>
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<tr>
<td>March 15th, 2014</td>
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<tr>
<td>Notification of Acceptance</td>
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<tr>
<td>April 30th, 2014</td>
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<th>Registration Process</th>
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<tr>
<td>January 14th, 2014</td>
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<td>Registration opening - Early Bird</td>
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<td>March 17th, 2014</td>
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<tr>
<td>Advanced rate</td>
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<tr>
<td>June 1-4, 2014</td>
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<tr>
<td>ISTS14 and IWTDCS 14, Ajaccio</td>
</tr>
</tbody>
</table>

**Contact**

ists14@sciencesconf.org

**Website**

ists14.sciencesconf.org
Stream: Traffic flow Theory and Control

Invited Sessions

- From micro- to macro-scopic traffic modelling (L. Leclercq)
- Network level traffic modelling (N. Geroliminis)
- Best practices in traffic simulation and calibration (M. Menendez)
- Optimization in Freeway systems (I. Papamichail + C. Roncoli)
- Urban Control (J. Haddad + K. Aboudolas)

- Please email any of the session chairs for a submission code

- Short abstract of 600 characters

- Deadline: January 31st
New Business

- 2015 Annual Meeting Call for Papers
- Classic Papers Subcommittee Next Incarnation
- Joint Subcommittee on Road Vehicle Automation
- Future Products and Activities
Adjourn with Gratitude

D.L. Gerlough
1963

Donald Cleveland
1964-1967

Harold Michael
1963-1964

Joseph Oppenlander
1964-1968

Donald Capelle
1968-1974

Kenneth Crowley
1974-1980

John Haynes
1980-1986

Carroll Messer
1986-1992

Hani Mahmassani
1992-2000

Nathan Gartner
2000-2009
Please don’t forget to sign in!