

Agenda
ABJ80 TRB Statistical Methods Committee

Tuesday, Jan 10, 2017

10:15 AM to 12:00 PM, Marquis Ballroom Salon 10 (M2), Marriott Marquis

Chair: Linda Ng Boyle, University of Washington

Secretary: Bob Scopatz

Scope: The ABJ80 Committee is concerned with the appropriate application of statistical methods in the field of transportation. The committee serves as a resource on statistical matters for all TRB committees and related committees for the National Academies; fosters understanding and use of statistics through dissemination of educational activities; and identifies and fosters research needed in statistics within the transportation community.

All sessions are led by Linda Boyle unless otherwise noted.

- 10:15 to 10:20 am Introductions
- 10:20 to 10:25 am Approval of 2016 Meeting Minutes (*Bob Scopatz*)
- 10:25 to 10:30 am Committee Rotation Requirements and Membership
- 10:30 to 10:40 am Workshops/Sessions Sponsored and Co-Sponsored by ABJ80 for 2017
- 10:40 to 10:45 am TRB Data Contest for 2018 (Spatial Data)
- 10:45 to 10:55 am Paper review process, statistics, and identification of issues
(*Panogiotis Anastasopoulos*)
- 10:55 to 11:05 am Discussion of Best Paper Award Process and Qualifications (*Peter Savolainen*)
including picture taking.
- 11:05 to 11:10 am Website updates (*Mazharul Haque [Shimul]*)
- 11:10 to 11:20 am TRB Circular on Analytical Tools for Transportation Researchers and
Practitioners
- 11:20 to 11:30 am (floating): TRB initiatives and Data Section News (Bernardo Kleiner)*
- 11:30 to 11:40 am Future Committee Activities and Sessions (*Linda Boyle, TBD*)
- 11:40 to 11:55 am TSIG update (*Feng Guo*)
- 11:55 to 11:57 am PICTURE TAKING
- 11:57 to 12:00 am Call to Audience/relevant activities of other committees, conferences, etc.
- 12:00 pm Adjourn

TRB 2016 ABJ80 Sponsored or Co-Sponsored Sessions/Workshops/Meetings

Workshop 147: Spatial Analysis

Sunday, 09:00 a.m. - 12:30 p.m., Convention Center, 154

Yiyi Wang, Montana State University, presiding

- Presentations by Kara Kockelman, Jeremy Lea, Jonathan Aquero-Valverde
- Interactive workshop activity (lead by Yiyi Wang).

Event 288: Poster Session on Statistical Methods In Transportation

Monday, 10:15 a.m. - 12:00 p.m., Convention Center, Hall E

Panagiotis Anastasopoulos, University at Buffalo, presiding

- Implicit Scenario Mixture Models for Travel Time Estimation
- Methodology to Disaggregate Speed Data Collected by Road Detectors
- Where Can Conflicts Be Surrogates for Crashes? An Investigation Based on a Semi-Parametric Statistical Approach
- New Mixed MNP Model Accommodating a Variety of Dependent Nonnormal Coefficient Distributions
- Stochastic Cusp Catastrophe Models with Traffic and Weather Data for Crash Severity Analysis on Urban Arterials
- Modeling Multinomial Outcomes from Partner Selection and Joint Decision-Making Processes
- Negative Binomial Crash Sum Model for Time-Invariant Heterogeneity in Panel Crash Data: Some Insights
- Truncated Bayesian Nonparametric Modeling of Multistate Travel Time Distribution
- Joint Framework for Static and Real-Time Crash Risk Analysis
- An Introduction to the Network Weight Matrix
- Grouped Response Ordered Logit Count Model Framework
- Multimodal Crash Frequency Modeling: Multivariate, Multivariate Spatial, Multivariate Temporal, or Multivariate Spatial-Temporal?
- Detecting Changes in Accident Rates Using a Hierarchical Bayesian Approach: An Application to the I-710 and the implementation of the PierPASS Program

Committee Meeting Statistical Methodology Committee ABJ80

Tuesday, 10:15–12:00 pm, Marquis Ballroom Salon 10 (M2), Marriott Marquis

Linda Ng Boyle, University of Washington, presiding

Session 456: Doctoral Student Research in Transportation

Monday, 03:45 p.m. - 05:30 p.m., Convention Center, Salon B

Peter Savolainen, Iowa State University, presiding

Co-sponsored by Safety Data, Analysis and Evaluation, and Statistical Methods

- *12 student presentations*

Session 766: Are We Too Comfortable? Changing the Culture of Transportation Research

Tuesday, 06:00 p.m. - 07:30 p.m., Convention Center, 152B

Jonathan Upchurch, Transportation Engineering Consultant, presiding

Co-sponsored by 7 Standing Committees (including ABJ80)