

Agenda
ABJ80 Statistical Methods Committee

Tuesday, Jan 14, 2014
7:30 PM to 10:00 PM, Marriott Harding

Chair: Linda Ng Boyle, University of Washington
Secretary: Ida van Schalkwyk

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 other TRB committees and related National Academies of Science committees; will foster understanding and use of statistics through the dissemination and educational activities; and will identify and foster research needed in statistics for use in transportation.

7:30 to 7:40 pm	Introductions
7:40 to 7:45 pm	Approval of 2013 Annual Meeting Minutes (<i>Ida van Schalkwyk</i>)
7:45 to 7:50 pm	Committee Rotation Requirements and Membership Updates
7:50 to 8:00 pm	Workshops/Sessions Sponsored and Co-Sponsored by ABJ80 in 2014 (<i>Linda Boyle, Matthew Karlaftis</i>)
8:00 to 8:15 pm	Paper review process, statistics, and identification of issues (<i>Linda Boyle, Xiao Qin</i>)
8:15 to 8:20 pm	Paper Award (<i>Promod Chandhok</i>)
8:20 to 8:25 pm	Social Media Activities (<i>Naveen Eluru</i>)
8:25 to 8:40 pm	TRB Circular on Analytical Tools for Transportation Researchers and Practitioners (<i>Linda Boyle, Gord Lovegrove</i>)
8:40 to 8:45 pm	Subcommittee Assignments (Strategic Planning, Research Needs Statements, Paper review, etc.)
8:45 to 8:55 pm	SHRP 2 activities (<i>Ken Campbell</i>)
8:55 to 9:05 am	(floating 15 minutes) TRB initiatives and Data Section News (<i>Bernardo Kleiner</i>)
9:05 to 9:10 pm	Research needs statements (<i>Karin Bauer, Thomas Jonsson</i>)
9:10 to 9:35 pm	ABJ80 Strategic Needs Statement (<i>David Reinke</i>)
9:35 to 9:45 pm	Future Committee Activities and Sessions (<i>Linda Boyle, TBD</i>)
9:45 to 9:50 pm	ABJ80 Mid-year meeting/JSM Conference: Invited Papers in Transportation Statistics (Aug 2-7, 2014, Boston, MA) (<i>Promod Chandhok, Feng Guo</i>)
9:50 to 10:00 pm	Call to Audience/relevant activities of other committees, conferences, etc. Traffic Records Forum (<i>Bob Scopat</i>)
10:00 pm	Adjourn

TRB 2014 ABJ80 Sponsored or Co-Sponsored Sessions/Workshops/Meetings

Workshop 208: Transportation Data Competition

Sunday 1:30PM- 4:30PM, *Hilton, Columbia Hall 9*

Linda Ng Boyle, Matthew Karlaftis, presiding

Other co-sponsors: Statewide Transportation Data and Information Systems (ABJ20), Information Systems and Technology (ABJ50), Vehicle User Characteristics (AND10), Simulation and Measurement of Vehicle and Operator Performance (AND30)

Transportation Statistics Interest Group (TSIG) Open Meeting

Sunday 5:00PM- 6:00PM, *Hilton, Fairchild*

Li Leung, Bureau of Transportation Statistics, presiding

Other co-sponsors: Visualization in Transportation (ABJ95)

Poster Session 370 Research in Statistical Methods in Transportation

Monday 2:00PM- 3:45PM, *Marriott, Salon 2*

Xiao Qin, South Dakota State University, presiding

1. Spatiotemporal Analysis of Dynamic Origin-Destination Data Using Latent Dirichlet Allocation: Application to Vélib' Bikesharing System of Paris, 14-0647, E02
2. Safety-Oriented Pavement Performance Thresholds: Multiobjective Optimization and Goal Programming Analysis, 14-0739, E04
3. Naïve Bayes Classifier Ensemble for Traffic Incident Detection, 14-1014, E06
4. Applying the Generalized Waring Model for Investigating Sources of Variance in Motor Vélib' Bikesharing System Vehicle Crash Analysis, 14-1352, E08
5. Application of Hyper-Poisson Generalized Linear Model for Analyzing Motor Vehicle Crashes, 14-4511, E10
6. Effects of Lowering Speed Limits in Urban Areas: Bayesian Perspective, 14-1508, E12
7. The Poisson Inverse Gaussian (PIG) Generalized Linear Regression Model for Analyzing Motor Vehicle Crash Data, 14-1522, E14
8. Improved Computational Framework for Efficient Probabilistic Inference of Damage in Truss Structures Based on Vibration Measurements, 14-3462, E16
9. Latent Segmentation Generalized Ordered Logit Model to Examine Factors Influencing Driver Injury Severity, 14-4544, E18

Lectern Session 398: Statistical Challenges in the Analysis of Naturalistic Driving Data

Monday 3:45PM- 5:30PM, *Marriott, Maryland B*

Paul P. Jovanis, Pennsylvania State University, presiding

Other co-sponsors: Safety and System Users (AN000), Safety (ANB00)

Statistical Methodology (ABJ80) Committee Meeting

Tuesday 7:30PM- 10:00PM, *Marriott, Harding*

Linda Ng Boyle, University of Washington, presiding

Lectern Session 789: Standardization of Measurement of Driving Performance

Wednesday 10:15AM- 12:00PM, *Marriott, Thurgood Marshall North*

Susan T. Chrysler, University of Iowa, presiding

Other co-sponsors: Vehicle User Characteristics (AND10), Simulation & Measurement of Vehicle & Operator Performance (AND30)

Lectern Session 811: Analytical Models for Safe and Sustainable Transport

Xiao Qin, South Dakota State University, presiding

Wednesday 2:30PM- 4:00PM, *Marriott, Delaware A*

1. Data Mining and Complex Network Algorithms for Traffic Accident Analysis
2. Comparison of Sichel and Negative Binomial Models in Hot Spot Identification
3. Validation of Probabilistic Model for Design of Freeway Entrance Speed Change Lanes
4. Examining Driver Injury Severity in Two-Vehicle Crashes: Copula-Based Approach
5. Exploratory Empirical Random Parameter Hazard-Based Analysis of Travel Distance for Sustainable Transport Habits