

**98th TRB Annual Meeting**  
**Surrogate Measures of Safety Subcommittee ANB20(3)**  
<https://sites.google.com/site/surrogatesafety/>  
**Monday, January 14th, 2019, 1:30 PM - 3:15 PM**  
**Marriott Marquis, Supreme Court (M4)**  
**Chair: Nicolas Saunier**

**Meeting Minutes**

1. Opening remarks - Nicolas Saunier
2. Introduction of participants - all

Nicolas Saunier mentioned that participants can register to be on the subcommittee mailing list on its [website](#).

3. Discussion and approval of the 2018 meeting minutes - all

There were no comments. The approval of the minutes was proposed by Andrew Tarko, seconded by Mohamed Banhashemi.

4. Updates from liaisons with other TRB groups and International Associations
  - 4.1. Transportation Safety Management (ANB10)
  - 4.2. Geometric Design (AFB10)
  - 4.3. ANB20(5) Joint Subcommittee on Speed and Safety
  - 4.4. Highway Safety Performance (ANB25) and Future Directions in Safety Analysis ANB20(1)

No one from the aforementioned committees attended the meeting. The meeting of the subcommittee on Future Directions in Safety Analysis, chaired by John Ivan and Jim Bonneson, was scheduled for the day after.

- 4.5. Task Force on System Simulation (AHB80T) and Transportation System Simulation Manual Framework (TSSM)

George List gave an update of the progress on the development of the TSSM, in terms of its progress, audience, detailed chapters, and role in the industry. Slides are provided with these minutes. There is interest in safety indicators in simulation, but no specifics in the current manual. Slides are [available](#).

- 4.6. International Co-operation on Theories and Concepts in Traffic Safety (ICTCT)

Aliaksei Lareshyn explained what the ICTCT is and that they have a subcommittee in ICTCT, and handed out flyers of it. He mentioned that the committee provides details about the literature, tools, courses, etc. for using SMOs.

- 4.7. SAE committee on Surrogate Measures of Safety

Aliaksei Lareshyn mentioned that Nicolas Saunier and he are involved in

preparing standards related to SMOs. The SAE SMOs subcommittee almost finished their first document on terms, definitions and fundamental concepts .

## 5. Surrogate measures at the 97th TRB Annual Meeting - Synthesis of Papers

Thomas Hall presented the papers related to SMOs to be presented at the meeting, in terms of measures applied, main criteria, data sources, etc. Analysis methods include statistical regression and machine learning.

## 6. Research updates and presentations

### 6.1. Naturalistic Driving Studies (NDS) projects sponsored by FHWA

Carol Tan provided an update about NDS sponsored by FHWA. Carol presented the ongoing projects with NDS data: high visibility crosswalk, speed and crash models, high-efficiency surface treatments.. She also mentioned the [Highway Safety Information System \(HSIS\) data](#), which includes a student competition with a cash award and a chance of ITE journal publication for using the data.

### 6.2. Naturalistic Driving Safety-Critical Event Datasets: What Exactly Do They Represent?

Ronald Knippling listed three questions about SMOs and the use of safety-critical events: Does the method qualify as empirical science? Is the method based on a sound, proven theory? Are Mixed-SCEs similar to harmful crash populations? Slides are [available](#).

### 6.3. Wrap-up on the European project In-depth Understanding of Accident Causation for Vulnerable Road Users (InDeV) (<http://www.indev-project.eu>)

Aliaksei Laureshyn presented the results of the three-year European project InDeV that was completed in October of 2018, the documents and software tools developed and the opportunities for future work. Slides are [available](#).

### 6.4. Update on the Bellevue Video Analytics Towards Vision Zero

Franz Loewenherz presented an update of the partnership of the City of Bellevue with Brisk Synergies to provide network-wide traffic safety monitoring (both limited duration and continuous analysis), a dashboard displaying safety results for intersections, crash-prediction scores and stored video of conflicts, and countermeasure recommendations for highest conflict locations. Slides are [available](#).

### 6.5. Practical issues with studies based on surrogate measures of safety

Craig Milligan presented a discussion on the necessary length for conflict studies based on more than 150 studies performed in 2018. Slides are [available](#).

7. New research directions, research needs statements and session/workshop ideas

Nicolas Saunier discussed the idea of a new workshop for the 2020 TRB annual meeting.

8. Website, wiki, surveys and dissemination activities in the context of existing efforts

9. Coming conferences, meetings, research opportunities and other matters

Andrew Tarko mentioned the 7th RSS conference in October 2019 in Iowa City, with abstracts due on February 1st 2019. The 6th [International Symposium on Highway Geometric Design](#), is scheduled for June-July 2020, with abstracts due for June 1st 2019. The ICTCT Conference is held in Warsaw in October 2019.

10. Adjourn