Student Paper Competition: SHRP 2 Safety Data Bonanza

To promote use of the SHRP 2 Safety Data and to foster the next generation of leaders in surface transportation

Call for Abstracts

TRB Oversight Committee for Use and Oversight of SHRP 2 Safety Data, Phase 1 (FA014)

dive in

The Student Paper Competition: SHRP 2 Safety Data Bonanza is looking for innovative ideas for using the SHRP 2 Safety Data. Graduate and undergraduate students are asked to propose how they would use the Naturalistic Driving Study data or Roadway Information Database to answer a research question. Entries are encouraged in all topic areas: safety, driver behavior, roadway environment, *and beyond.*

See the attachment for full terms and conditions of the competition.

award

Selected students will be provided a free data export in order to conduct their analysis. Those awardees will be provided admission and travel to the Transportation Research Board's 95th Annual Meeting the week of January 10-14, 2016 in Washington, DC and will be given the opportunity to present their research at a poster session. Awardees will also have the chance to publish their full research paper in TRB's *Transportation Research Circular.*

apply

Potential participants must complete an application and submit to SHRP2@nas.edu by Friday, September 11, 2015. TRB will notify applicants of acceptance by October 9, 2015 with additional details.

A special panel of TRB Committee members will select awardees based on demonstrated understanding of the SHRP 2 Safety Data, originality and practicality of the methods to analyze the data, and originality and usefulness of potential applications of the research.

Student Paper Competition: SHRP 2 Safety Data Bonanza
Call for Abstracts
July 31, 2015

The SHRP 2 Safety Data Program and the Transportation Research Board (TRB) Oversight Committee for Use and Oversight of SHRP 2 Safety Data, Phase 1 are sponsoring a student paper competition. This is a call for abstracts for papers.

The "Student Paper Competition: SHRP 2 Safety Data Bonanza" is looking for innovative ideas for using the data from the SHRP 2 Naturalistic Driving Study (NDS) database and Roadway Information Database (RID) - together known as the SHRP 2 Safety Data. The purpose of the competition is to encourage use of the SHRP 2 Safety Data and to foster the next generation of leaders in surface transportation. Students are asked to propose how they would use the SHRP 2 NDS and/or RID data to answer research questions. Participants are expected to familiarize themselves with the data available in the databases by reviewing the sample data, summary data, and data dictionaries available on the SHRP 2 NDS InSight website (https://insight.shrp2nds.us) and the SHRP 2 RID portal (http://www.ctre.iastate.edu/shrp2-rid).

Research topics may be drawn from a wide range of subjects of interest to the driving and road safety research community, such as driver behavior and roadway environment. However the contest is not limited to the driving and road safety subject area.

Abstracts will be reviewed by a selection panel comprised of TRB Committee members. The panel will select up to 8 exemplary paper abstracts for further development. At least 2 undergraduate applicants and at least 2 graduate applicants will be selected.

Selected students will be provided a data export from the InSight website or the RID, at no cost to the student, in order to conduct their analysis. Those selected students will present their preliminary research at a special poster session at the Transportation Research Board 95th Annual Meeting the week of January 10-14, 2016 in Washington, DC. Travel expenses and student admission to the Annual Meeting will be covered by SHRP 2 (one student traveler per entry and up to $1280 in travel per student). In addition, accepted applicants will be awarded the opportunity to write a paper for consideration of inclusion in a special edition of TRB's *Transportation Research Circular*. Participation in the TRB Annual Meeting and potential publication are an opportunity to become engaged in one of the pre-eminent international forums for frontline transportation leaders, practitioners, and researchers.

Competition Rules & Guidelines

Eligibility:
These awards will be offered only to persons who, as of September 11, 2015, are both (1) citizens or permanent residents of the United States, or have a current student visa, and (2) officially enrolled as a full-time student at an accredited North American institution of higher learning for the academic year in a course leading to an undergraduate or master's degree. Proof of both may be required. Eligibility status must be maintained throughout the academic year.

The paper/presentation must not have been previously accepted for publication in another journal or presentation at another conference.

Application Format:

Students should submit a completed application form along with their abstract and faculty sponsor letter.

Abstracts should be prepared using the attached template. 1500 words maximum. Pages with 1-inch margins, single-spaced, and 10-point Arial font.

Content:
Abstracts and papers should include discussions of the following:
- analysis topic or general area
- data variables to be used
- analysis method or methods
- potential applications of results

Selection Criteria:
Selection of award winners will be made by TRB Committee members who are experts from the highway safety community. Award will be based on an evaluation of the applicants' abstracts according to the following criteria:
- demonstrated understanding of the Safety Data;
- originality and practicality of proposed methods to analyze the Safety Data, including sample size and data accuracy considerations;
- originality and usefulness of potential applications.

Faculty Sponsorship:
Because of the human subjects data in the NDS dataset and IRB implications, student applicants must be sponsored by a university/college faculty member. A brief letter of support from the faculty sponsor should be included in the student's submission of their abstract stating that they have read the abstract, verifying that the information presented is accurate, and affirming that they will be responsible for overseeing that their sponsored student follows IRB regulations. Faculty should include their full contact information in the letter.

Data Request Guidelines:
For students that choose to analyze data from the NDS:
To gain access to individual NDS datasets and dataset records on the InSight website, a user must complete an application for "Qualified Researcher" status by submitting an IRB training certificate. (This training is available online via the InSight website.) Students need to complete this step in order to get access to full range of InSight data and write their abstract.

In order to conduct their analysis, selected students will only be given data that is available for viewing the InSight website. Currently there are more than 5.4 million trip summary records, 4,000 crashes or near crashes, and 32,000 baseline events on InSight —ample data to conduct an analysis. Anything more than an InSight data export, such as a customized dataset from the larger NDS dataset, cannot be generated for student analysis at this time.

Selected students will be given the export of non-personally-identifying data from the InSight website only under a Data Use License, which specifies the terms under which the NDS data may be used. The student researcher will need to apply for a Data Use License, which requires proof of Institutional Review Board (IRB) approval or exemption. Please see the "Additional Terms" section

for an explanation of the Data Use License and IRB process. Note that the Data Use License and IRB process will not need to be initiated until the student is selected. (A copy of the Data Use License Application for InSight website data is attached for reference.) TRB will assist the students through this process.

For students that choose to analyze data from the RID:
Selected students will be given a copy of the Roadway Information Database. The student researcher will be given the RID data under a simple Terms of Service Agreement. No IRB approval is necessary, as there is no human subjects data in this database. Please see the "Additional Terms" section for an explanation of the Terms of Service Agreement process.

Institutional Review Board (IRB):
The NDS data accessible through the InSight website are human subjects data without personally-identifying information. Students will therefore need to obtain IRB approval or exemption for their project from the student's institutional IRB. (Note: IRB decision could take up to **one month**.) Proof of IRB approval or exemption is necessary to complete the application for a Data Use License.

Application Submission:
All applications [comprised of the (1) form, (2) abstract, and (3) faculty sponsor letter] should be submitted electronically to SHRP2@nas.edu beginning on August 1, 2015. Please do not submit the application components separately, i.e. the form, abstract and sponsor letter should be sent together in 1 email.

The window for submission of abstracts closes at 5:00 pm ET on September 11, 2015. Questions may be directed to SHRP2@nas.edu.

Deadlines:
Abstracts due: September 11, 2015, 5:00 pm ET
Decision notification of selected students: October 9, 2015
Abstract revisions due: November 6, 2015
TRB Annual Meeting: week of January 10-14, 2016 - exact date of poster session to be determined
Full papers due for publication review: May 13, 2016
Comments returned from paper panel review: June 17, 2016
Full paper revision due for publication *Transportation Research Circular*: July 15, 2016

Additional Terms

Data Use License Process:
For selected students that choose to analyze data from the NDS: The following outlines the process to acquire a Data Use License for InSight data:
1. Explore InSight website (https://insight.shrp2nds.us) to become familiar with variables, data dictionaries, and available data
2. Develop a detailed data specification in collaboration with data steward (Virginia Tech Transportation Institute)
3. Obtain IRB approval/proof of exemption (from researcher's home institution, collaborating institution, or IRB for hire)
4. Work with data steward to develop and execute a Data Use License
5. Work with data steward to obtain specialized non-identifying dataset.

Terms of Use Agreement Process:
For selected students that choose to analyze data from the RID: The following outlines the process to acquire a Terms of Use Agreement for RID data:
1. Download the sample RID from the website (http://www.ctre.iastate.edu/shrp2-rid) and become familiar with the available data (GIS basic experience is required): Mobile data (sample download), Existing data from states (data dictionaries on website), Supplemental data
2. Determine roadway attributes needed
3. Initiate a discussion with data steward (Iowa State University Center for Transportation Research & Education)
4. Decide how to proceed: a. Receive a copy of the RID and extract your own data; or b. Work with data steward to get the required data
5. Complete the "Terms of Use Agreement."

Copyright:
The Student Author gives TRB the right to publish their results in the *Transportation Research Circular* or other TRB publication. The Author retains the ownership of the original work product.

Student Paper Competition: SHRP 2 Safety Data Bonanza
Application Form 2015

First Name		Middle Initial
Last Name		
Mailing Address		
City		State
Zip Code		Phone Number
E-Mail Address		
Gender	Female	
	Male	

Citizenship	US Citizen
	Permanent Resident
	Student Visa
If visa option checked, describe type, status, & expiration date	
College/University currently enrolled	
Degree Objective	Undergraduate
	Master's
Major Field	
Expected Month & Year of Graduation	
Name of Faculty Sponsor	

Title of Abstract Proposal	

| Are there multiple primary authors for this proposal? | Yes*
No | *If "yes", then list the other primary authors. Each additional primary author should submit an Application Form with the application. |

To be completed and certified by Applicant:

By typing my full name and date below, I certify that all the information provided in my application package for the Student Paper Competition: SHRP 2 Safety Data Bonanza is true and commit to following all Competition Rules & Guidelines if I am selected to receive the award.

Applicant Name

Date

[Template: The abstract should follow the reporting format below, with no more than 1,500 words total. If your abstract is selected for presentation, this format can be easily expanded to full article length.]

Student Paper Competition: SHRP 2 Naturalistic Driving Study Data Bonanza

Abstract for Review

[Title]

[Author name, Affiliation, Email address
Contributor1 name, Affiliation, Email address
Contributor2 name, Affiliation, Email address]

Problem [200 words maximum]

Method [350 words maximum]

Results [350 words maximum]

Discussion [350 words maximum]

Summary [250 words maximum]