

National TEAMS Prepared Presentation Competition**Overview:**

Participants prepare a design proposal (oral presentation accompanied by a poster) describing their solution to the design challenge.

“One of the most soul destroying things is traffic. It affects people in every part of the world and it takes away so much of your life.”

- Elon Musk

According to a study done by the Harvard Health Watch, an average American spends 101 minutes per day driving. That means that in a lifetime, an average person spends 37,935 hours driving a car (assuming that s/he starts driving at 17 and drives until 78.7 years old). The average US commuter spends 42 hours in traffic per year and loses \$1,400 idling away gas. Transportation analytics firm INRIX reported that Atlanta, GA ranked among the worst traffic-congested areas in both the United States (ranked #4) and the world (ranked #8).

Traffic congestion on roads not only increases the fuel consumption but consequently leads to an increase in carbon dioxide emissions and outdoor air pollution.

Challenge:

Design an innovation in transportation infrastructure based on sustainable criteria. Examples of innovations include new transportation methods or improvements to current transportation methods. Sustainable principles identified by the National Institute of Building Sciences include but are not limited to;

- Optimize Site Potential
- Optimize Energy Use
- Protect and Conserve Water
- Optimize Building Space and Material Use
- Enhance Indoor Environmental Quality (IEQ)
- Optimize Operational and Maintenance Practices

The proposal must include;

- Location for the innovation (e.g. town, city and/or country)
- Design rationale
 - An effective design will (1) be guided by one or more sustainable principles, (2) consider related issues such as building resiliency and adaptability as well (3) adhere to appropriate codes, laws and standards.
- Implementation plan, including estimated costs and timeline
- Implications for the environment, the economy, and society

Competition attire:

- Shirt or blouse: button-shirt with a turned down collar or a polo/golf shirt. [The official TSA shirt](#) (royal blue) may be worn (unacceptable: t-shirts, halter tops, tank tops)
- Dress skirt or pants: (unacceptable: jeans, baggy pants, exterior pocket pants, shorts)
- Shoes: dress shoes worn with dark socks, hosiery (optional); open-toe shoes or sandals are acceptable (unacceptable: athletic shoes; flip-flops; military boots; or work boots)

Time limits:

1. Teams are given two minutes for set up prior to starting their presentation.
2. Presentations must be between three and five minutes.
3. A group interview (all team members) will immediately follow the presentation during the semifinal round and will last no longer than three minutes.

Procedure - prior to competition:

1. The coach announces the topic and provides a copy of the competition regulations to team members.
2. All team members must assist with producing the presentation.
3. Team members choose between two and four team members to give the presentation at the competition. All remaining team members are expected to be present during the presentation and to join their teammates for the group interview that follows the presentation.
4. Coaches who have registered a team for this competition will receive an email regarding team presentation times by June 6, 2018.

Procedure – preliminary round:

1. Teams arrive for their presentation no more than 15 minutes prior to their scheduled time.
2. Judges will review and rank presentations.
3. A list of 12 semifinalists (in random order) will be posted. Semifinalists must report for this event at the time and place stated in the semifinalist posting.

Procedure – semifinal round:

1. Semifinalists report for the event.
2. Semifinalists will present using the same information, poster and optional visuals used during the preliminary round.
3. A group interview (approximately three minutes) will follow the presentation.
4. Judges will review and rank presentations.
5. Ten finalists will be announced during the TEAMS award ceremony.

Regulations:

1. Presentations must be original and the result of the participating team's efforts.
2. The presentation must include:

- a. One poster

Maximum size: 20" (width) x 30" (height)

Poster may be mounted on foam core, poster board, or similar material, OR you may attach the poster to a 20" x 30" foam core board that will be available at the time of presentation.

List the following information on the back of the poster:

State

School name

Level and team identifying number

Coach Name

Example:

Nevada

Smith High School

9/10 Team 2

Sharon Jones

- b. The team is responsible for placing the poster on the easel upon entering the competition room.
 - c. TEAMS will take their poster with them immediately following their presentation. Any posters not collected at that time will become the property of TSA and will be discarded.
3. The presentation may include up to two additional visuals that add to the effectiveness of the presentation. Additional visuals may not exceed 12" (h) x 12" (w) x 12" (d).
The team is responsible for placing any visual aids on the judge's table.
 4. Teams will take all visual aids with them when they leave the competition room. Visual aids that are not taken immediately following the competition will become the property of TSA and will be discarded.
 5. Hazardous materials, chemicals, lighted or open flames, combustibles, wet cell batteries, helium, or other similar materials may not be used in the presentation or brought to the national TSA conference. Any questions regarding materials should be emailed to Sandy Honour (shonour@tsaweb.org) no later than June 6, 2018.
 6. The presentation must be between three and five minutes.
 7. A group interview (all team members) immediately follows the presentation during the semifinal round and lasts approximately 3 minutes.
 8. Participants are allotted a two minute set up time before their presentation begins.
 9. Teams must be comprised of four to eight students.
 10. A table, a podium, a poster easel, foam core for backing, and push pins will be provided by national TSA for participant use, as needed.
 11. TEAMS participants may invite guests to watch their presentation only.

Evaluation:

Evaluation is based on the quality of the presentation, the recommendations and the accompanying rationale for the solution.