

**National Prepared Presentation Competition****Overview:**

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

*“People with water-borne diseases occupy more than 50% of hospital beds across the world. Does the answer lie in building more hospitals? Really, what is needed is to give them clean water.”*

- Manoj Bhargava

**Challenge:**

Design an appropriate testing method and community relations plan for potable water in the fictional town of Sundarhira, Bangladesh located near the Mohanandan River.

The people of the fictional town of Sundarhira are plagued by a long history of short life expectancy and poor quality of life due to poverty and health issues. The local government leaders have decided to formulate a testing and community relations plan to inform and empower the people of their town. Your team is tasked with preparing a plan to incorporate methods for effective social change. The water testing method must be affordable, usable and accurate. The plan must include, but is not limited to:

- Recommendation for appropriate testing methods, based on location and available resources
- Rational for the recommendation
- 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. The group interview (all team members) follows immediately and lasts 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 containing instructions for selecting a team presentation time by June 5, 2017.

## 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 – push pins will be provided.  
  
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. The poster will remain in the room following the competition. All posters will be on display prior to the TEAMS Award Ceremony. The TEAMS coach must collect his/her team(s) poster(s) at the end of the award ceremony. 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. Only the poster will remain in the room following the competition. Teams will take other 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](mailto:shonour@tsaweb.org)) no later than June 5, 2017.
6. The presentation must be between three and five minutes.
7. A group interview (all team members) immediately follows the presentation and lasts no longer than 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 and the recommendations and accompanying rationale for the solution.



## Background Information

### 2017 TEAMS Prepared Presentation National Competition

Below are general data points to consider in developing an appropriate testing methods and community relations plan for your fictional town.

<b>Sundarhira (Town Specific)</b>	<b>Bangladesh (Country Specific)</b>
Sundarhira is town of around 200,000 population located in the west of Rasjahi Province on the bank of the Mohanandan River.	Widespread naturally-occurring arsenic contamination of shallow groundwater is a major challenge in relation to safe drinking-water provision in Bangladesh – and the most obvious alternative of surface water sources carries the risk of serious microbiological pollution and necessitates treatment facilities often exceeding local financial resources and operational capacity.
Most of the population (approaching 160,000) is still dependent on shallow hand-pump tube wells and hand dug wells, some of which were not arsenic-safe.	
<p>Access to potable water sources is available through least one of several methods throughout the town to the majority of the population:</p> <ul style="list-style-type: none"> <li>• Arsenic-free surface water from the Mohanandan River</li> <li>• Shallow water wells to induce bank infiltration from the same river</li> <li>• Arsenic-safe groundwater from the shallow aquifer (up to 50 m bgl)</li> <li>• Arsenic-free groundwater from the deep aquifer (below 150 m).</li> </ul>	The World Bank, together with numerous bilateral donor agencies, has provided the Government of Bangladesh with strong support for its efforts to provide arsenic-safe water-supplies, with an emphasis on new sources feeding piped distribution systems both in urban areas and in rural areas with a high village density. The World Bank-support has been channeled through the Bangladesh Arsenic Mitigation Water-Supply Project (BAMWSP) during 1998-2006 and the Bangladesh Water-Supply Program Project (BWSPP) during 2004-2010.
<b>Information derived from:</b> Tuinhof, A. & Kemper, K. (2010) Mitigation of Arsenic Contamination in Drinking Water-Supplies of Bangladesh — the Case of Chapai Nawabganj; Bangladesh Department of Public Health Engineering.	

### Additional Resources:

<http://billionsinchange.com/>