



**ESH for
High Technology**

2019 National SESHA Conference Student Program

www.seshaonline.org



SESHA (Semiconductor Environmental Health and Safety Association), founded in 1978 is truly a unique organization dedicated to the prevention of workplace injuries and accidents through the sharing of safety and health information and the promotion of technological advances in high technology, safety and health. SESHA's member companies include many of the premier high technology leaders in the industry listed here - <http://seshaonline.org/corporate/index.php3>

Student Scholarship Program - The goal of SESHA's Student Scholarship Program is to encourage students to pursue a career in Environmental Health and Safety in the High Technology industry. The scholarship is awarded to the winners of the student poster competition that will be held during the annual symposium.

Abstract - Any student seeking a degree in Environmental, Health and Safety or a related field can submit an abstract. For ex: Engineering, Public Health etc

Topics must be related to Environmental, Industrial Hygiene, Safety or Sustainability. Please see Rubric in next page to determine how topics will be weighted during judging. Abstract must contain a maximum of 100 words.

Abstract must be submitted by 2/15/2019 to academics@seshaonline.org. 10 abstracts will be selected and students will be notified by 2/28/2019 if their abstract has been selected for the 2019 National SESHA Conference Poster Competition

Posters - The poster competition will take place at the 2019 SESHA Annual Conference - <http://www.semiconductorsafety.org/meetings/2019/index.php>

Students will display their posters in the exhibit hall on Tuesday 4/30/2018 by 10:00am. The posters will remain in place until Thursday 5/2/2018 for all conference attendees to see. Posters must be collected by the students at the end of the General Conference on Thursday 5/2/2019

Judging - Judging will occur on Wednesday 5/1/2018 between 10:00am and 12:00pm. Students are expected to be at their posters for the judging session



Awards - 1st place \$5000, 2nd place \$3000, 3rd place \$1000 and two Honorable Mention \$500 awards will be presented during the Closing Ceremony on Thursday 5/2/2019.



Travel and Accommodation - Travel to the SESHA conference can be sponsored by the student's University or by SESHA. Students will be **reimbursed up to \$750 for travel** (air and ground transportation only) by SESHA upon submission of receipts for the travel costs.



Accommodation will be **sponsored by SESHA** in the form of **3 Nights stay at Embassy Suites by Hilton** in Scottsdale, AZ which is the conference location



Rubric

	Relevance to Semiconductor Industry or High Tech Industry	Content	Conventions
Score Levels	How can your research be applied to the field of Semiconductor or High Tech Industry EHS?	<p>Why did you choose this topic?</p> <p>What was your goal for this project?</p> <p>What were some challenges you faced during the project?</p>	Judge to review the poster during interview
4	Subject provides a roadmap to enhancing existing Semiconductor / High Tech Environmental Health and Safety/Sustainability practices and programs in the industry.	<p>Is well thought out and supports the solution to the challenge or question</p> <p>Reflects application of critical thinking, has as clear goal that is related to the topic</p> <p>Is pulled from a variety of sources and is accurate</p>	No spelling, grammatical, or punctuation errors
3	Subject discusses a Best Known Method in Semiconductor / High Tech Environmental Health and Safety/Sustainability practices and programs in the industry	<p>Is well thought out and supports the solution</p> <p>Has application of critical thinking that is apparent and has clear goal that is related to the topic</p> <p>Is pulled from several sources and is accurate</p>	Few (1 to 3) spelling, grammatical, or punctuation errors
2	Subject is related to policies and programs that are peripheral to Semiconductor / High Tech Environmental Health and Safety/Sustainability.	<p>Supports the solution</p> <p>Has application of critical thinking that is apparent and has no clear goal</p> <p>Is pulled from a limited number of sources and has some factual errors or inconsistencies</p>	Minimal (3 to 5) spelling, grammatical, or punctuation errors
1	Subject is unrelated to Semiconductor / High Tech Environmental Health and Safety/Sustainability	<p>Provides inconsistent information for solution</p> <p>Has no apparent application of critical thinking and has no clear goal</p> <p>Is pulled from few sources and has significant factual errors, misconceptions, or misinterpretations</p>	More than 5 spelling, grammatical, or punctuation errors

- **2018 Winners as an examples of successful topics**

- 1st Place – Cytotoxicity of III/V Semiconductor Materials to Human Lung Epithelial Cells
- 2nd Place – Differentiation of Chemical Mechanical Polishing Slurry Nanoparticles Using Hyperspectral Data Analysis
- 3rd Place – Azoles as emerging contaminants and their role in nitrification inhibition
- Topics must be related to the **Semiconductor industry or High Tech industry** to be selected for the poster competition