



中国旅美科技协会大纽约分会

Chinese Association for Science and Technology, USA

Greater New York Chapter (CASTUSA-GNY)

Poster Competition for High-School Students

The CAST-USA GNY 2015 Convention (to be held on May 2, 2015 in Columbia University) will have a special Poster Competition Session designed for Junior/Senior High School students of Chinese descent to display their talent and research interest in Science, Technology, Engineering, and Mathematics (STEM) fields. The Posters will be judged in two groups: senior high school group (grade level 9~12) and junior high school/middle school group (grade < 9). The authors of three best posters from each group will receive the CAST-USA GNY Young Researcher Award, and all selected poster presenters will receive a Certificate of Recognition from CAST-USA GNY. The award and recognition will put the students in advantageous positions when applying for prestigious colleges/universities or Magnet senior high schools.

The topics for Poster Presentation:

- A. Student's science/technology project completed in their schools or for science fairs.
- B. Students can also make a poster presentation on the history and perspectives of a specific science and technology area based on literature study, such as:
 - 1. How did the discovery of electricity change human life? Your perspective for sustainable energy source and the required technology.
 - 2. The key technology which made it possible to change a computer from a room size of 1024 square feet to palm size. Present the history of computer hardware development. Propose your "ideal" computer for future.
 - 3. From the ancient "automata" to industry manipulator on factory floor and the autonomous UAV flying in the sky, the robotics has evolved to a much bigger industry. What is the definition of robots and what can they do for you? Present the history, applications, and representative robots that improved the human life.
 - 4. The discovery of the DNA double helix structure; The completion of the first draft of human genome; Visualization of gene expression: The discovery of Green Fluorescence Protein and its application.

5. Who invented the GPS (Global Position System)? Describe the science behind the GPS. If you apply the GPS to one game of the Pokemon carton, what will be the outcome? Make a proposal on how to use GPS in a game of the Pokemon or one of your favored game.
6. Any other STEM topics that you are interested, ...

Please submit the abstract of the poster to **posters@castusa-gny.org**, using the following abstract format. The Abstract should be received no later than **April 24th, Friday, 11:59pm**. The authors of accepted posters will be informed by April 27th, Wednesday, 11:59pm. The students shall commit half hours to present the poster and answer judges' questions during the evaluation session at the convention venue in Columbia University on May 2, 2014.

The abstract format (using Time New Roman font, Size 11, except the title)

1. Title (Font Times New Roman, size 14)
2. Author name and affiliation (which school, grade level)
3. Mentor (if you have) name and affiliation (working institution/company/organization)
4. Author (and Mentor) email addresses
5. A short profile of the Student author (200-300 words, stating his/her career goal, interest and talent, achievements, etc.)
6. The abstract of the poster (300-500 words)

Poster Preparation:

Students shall print the poster and attach it to the poster board. CASTUSA-GNY convention will provide 36" x 48" standard fold-back poster board. A maximum of 16 letter size pages (8.5" x 11") can be attached to the poster board.

It is fine to print single page poster and use non-foldable foam board at your own cost. In this case, the poster size shall be no more than 36" x 36" or 24" x 36".

Attending Convention:

The high-school poster presenters are allowed to attend the convention free of charge. Parents are welcome to register at <http://convention2015.castusa-gny.org>.

旅美科协大纽约分会 2015 年会组委会

2015 年 3 月 20 日