



# 2012 MATERIALS RESEARCH POSTER COMPETITION



The Materials Research Poster Competition promotes innovative product development from a materials perspective.

## Focus Areas

### Industrial/Technical/Sports Materials

Create a poster to communicate research related to materials for technical and engineering applications.

Examples:

- advanced sporting equipment
- aircraft or automotive components
- architectural materials
- composites
- geo-synthetic materials
- industrial filters
- industrial and technical fabrics
- sports performance fabrics

### Medical/Biomedical/Protective Materials and Devices

Create a poster explaining research in materials for use in hazardous or medical environments. Research may involve active and/or reactive materials.

Examples:

- artificial body implants
- chemical/biological protective garments
- protective medical gowns and masks
- reactive barrier membranes
- self-detoxifying materials

### Functional/Smart/Nano Materials

Create a research poster to communicate the creation of structures that incorporate smart functionality to polymers and fibers. These materials may be used for computing, sensing, monitoring, imaging, and/or broadcasting.

Examples:

- anti-counterfeit materials
- camouflage/electromagnetic management
- conducting polymers
- energy harvesting
- functional nano-materials and nanofibers
- integrated materials for multifunctional assemblies
- novel energy storage
- optical materials
- wearable electronic garments



## Awards

Two entries in each focus area will be awarded prizes, whether submitted by an individual or a team.

**First Place: US\$1,000**

**Second Place: US\$500**

Winners will also receive complimentary student registration for the 2013 AATCC International Conference, where their research posters will be on display. For winning teams, all members will receive complimentary registration.

## Competition Guidelines

Undergraduate and graduate individuals and student teams may enter. For judging purposes, NO distinction will be made between graduate and undergraduate entries.

Students may work as individuals or in teams of up to four. Each student may enter only one focus area.

Submissions must be accompanied by a completed [entry form](#). *Participants who are not current AATCC student members, and who submit a completed poster, will receive a one-year complimentary student membership.*

### Submissions will be judged on:

- Concept originality
- Research quality
- Clarity
- Results, Discussion, and Conclusions



A [poster template](#) is provided

- Background and font colors may be changed
- Use font and point size indicated in the template
- Include diagrams, tables, figures, photographs, or other graphic tools to clearly convey the research

Posters must include the following elements. The space devoted to presentation of each element may be adjusted as needed.

- Names and affiliations (schools) of all researchers
- Title
- Introduction
- Objectives
- Materials and Methods
- Results and Discussion
- Conclusions and Future Work
- Literature cited
- Acknowledgments (if applicable)

## Important Dates

### February 13, 2012

- Submit online [entry form](#)
- Submit all information in English
- Include student and faculty advisor names in the body of the email

### March 30, 2012

- Submit poster as an email attachment or CD
- All text in English.
- Single MS PowerPoint slide
- File name: "Poster-Project Title"
- No larger than 50MB
- Include student and faculty advisor names in the body of the email
- Send to Aaron Creech ([creech@aatcc.org](mailto:creech@aatcc.org))

### June 1, 2012

Winners announced to the international press and all participants.

## Questions?

Contact Aaron Creech at +1 919 549 3544 or [creech@aatcc.org](mailto:creech@aatcc.org)

## Permissions

By entering the competition, students give AATCC non-exclusive rights to use images, excerpts, and complete posters in print or electronic publications, and in press releases to the general textile press. Students retain all applicable copyright and patent privileges.

## Faculty Note

AATCC announces this competition in the fall of 2011, confident that polymer, material, and engineering faculty will incorporate it as a research project in their fall curricula. Faculty members are encouraged to assist students with the coordination of teams and resources and to act as a liaison with AATCC for this competition.

To learn about starting an AATCC student chapter at your school, contact Diana Wyman ([wymand@aatcc.org](mailto:wymand@aatcc.org); +1 919 549 3539).

Download guidelines, entry form, and poster template [www.aatcc.org/members/students/competitions.cfm](http://www.aatcc.org/members/students/competitions.cfm)

