

AIChE 2011 Student Chapter Competition

Development of K-12 curricular materials for energy education

Proposal Deadline: February 15, 2011

- **Get involved**
- **Shape AIChE's energy programs**
- **Expand your career opportunities**

Providing the world's energy remains a major problem of the 21st century. Become part of the solution by participating in this high-visibility Student Chapter Competition.

The program challenges you to:

- Work with a student group and an area school to develop curriculum to engage K-12 students in alternative energy education
- Support the instruction of important concepts of science and mathematics within the context of energy needs
- Connect with the K-12 learning environment and create resources to support teachers as they educate future generations about this important field

Round one: Proposal

The proposal your group submits must describe the activity in enough detail so that the judges – a group of chemical engineering educators – can evaluate its effectiveness. The activity your group proposes must:

- Demonstrate an important concept of alternative energy education
- Be a hands-on demonstration or experiment
- Name an area K-12 school as partner

- Identify the specific learning outcome to be achieved
- Include an assessment component

Round two: Report

Your group will be required to make a report of the project that will appear on the AIChE web site for public viewing. The report must include:

- Instructions on how to construct the demonstration or experiment
- Curricular goals and outcomes
- Summary of the success of the first implementation of the project

Round three: Presentation

Your group also may be required to give an oral presentation of the outcomes of your project at the AIChE Annual Meeting.

Important dates:

- January 14, 2011: Final deadline for project proposals
- January 28, 2011: Award of \$2,500 (for purchase of materials) to be provided for projects selected as most likely to succeed
- October 7, 2011: Project completed in the school

Funding is limited. Register your school now for this program.

For more information, email us at energy@aiche.org or visit us at www.aiche.org/StudentEnergyCompetition