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#### Hydrogen Education

- Curriculum Development
- Outreach & Special Projects
- Professional Development for Teachers
- Partnerships

#### Curriculum Development

- Solar Matters I, II & III
- Understanding Solar Energy
- High-energy Hydrogen I, II & III

#### **Materials and Kits**

- Each curriculum unit can be used with a kit of materials available on loan from FSEC
- Items included in the kits:
  - Fuel Cells
  - Photovoltaic cells
  - Multimeters
  - Hydrogen rockets

## Outreach & Special Projects

- Middle School Science Bowl Hydrogen Demonstration
- High School Hydrogen Sprint
- Exemplary Projects in Energy and Conservation (EPEC) Awards

## Middle School Science Bowl



- Regional host for southeastern U.S. (2 part competition)
- Science and math Q&A
- Hydrogen Workshop
- Hydrogen Demonstration at the Energywhiz Olympics

#### **National Science Bowl**



- Regional teams from throughout the U.S. compete at nationals
- Florida has finished in the top three positions for the past three years

## High School Hydrogen Sprint

- Teams design, build and race hydrogen vehicles.
- Team presentations on a hydrogen topic are also required

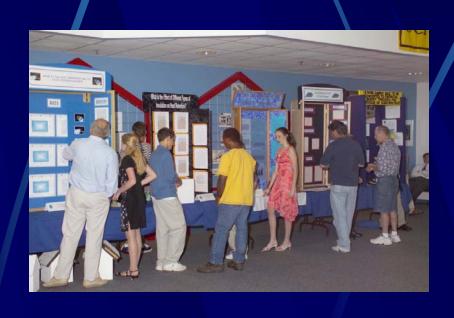


#### Hydrogen Sprint Judges



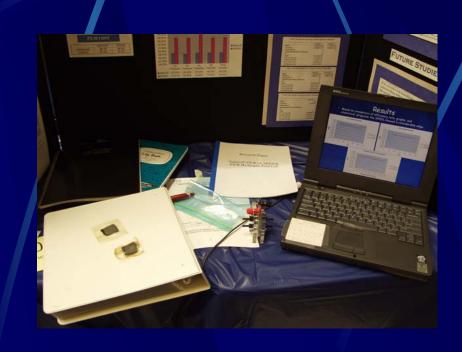
- Judges include volunteers from:
- Canaveral Council of Technical Societies
- Society of Automotive Engineers and
- NASA at KSC

#### **EPEC Awards**



- Exemplary Projects in Energy and Conservation
- Student recognition for outstanding research in energy and energy conservation

#### Science Fair



Hydrogen Fuel Cell Project

# Professional Development for Teachers



- Seven K-12 teacher workshops
- Hydrogen content was included in every workshop

#### **Energywhiz Website**



#### Info on:

- Hydrogen curriculum
- Science fair assistance
- Special activities and
- Opportunities for schools, students and teachers

#### **Partnerships**

- Space Coast Science Education Alliance
  - Group of informal science educators dedicated to improving science literacy throughout the community
  - Provides additional support to extend outreach
  - Approximately 24 organizations are represented

## Hydrogen: The Power and the Potential

- Partnership with Progress Energy
- Eight Schools involved
- 24 Teachers
- Culminates in a student designed summit

### K-12 Hydrogen Education

Questions?

#### For More Information:

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Or

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**THANK YOU!**