



THANK YOU!!

THE FUEL CELL "GREEN MACHINE" PILOT PROGRAM 2007 SPECIAL AWARDS AND STAGE 1-4 AWARDS

2007 SPECIAL AWARDS

1. FirstFuelCells.com, **2007 FOUNDER'S AWARD (Florida)**
School Name: **Melbourne High School**
Team Name & Number: **Team Voltage 386**
(Developed: Hydride Tank Refill Procedure Manual, Training Tapes "Fuel Cell Assembly by Students", Completed all 4 Stages of the Competition, RoboPower 2 Hydrogen Powered Dynamic System, Designed Program Support Promotional, Newspaper Announcement, Web Site Release, and State Regional Announcement, Partnered with Florida Institute of Technology)
2. FirstFuelCells.com, **2007 FUEL CELL SAFETY & TESTING LAB DESIGN (Oklahoma)**
School Name: **Ponca City High School**
Team Name & Number: **Team 476**
(Excellent Test and Analysis Procedures, used Point Source Monitors and Personal Safety Monitors, received COP grant, organized, proactive and very consternate team, resourced their state, worked through all obstacles)
3. FirstFuelCells.com, **2007 HYDROGEN REFILL AWARD (Alaska)**
School Name: **A.J. Dimond High School**
Team Name & Number: **Team 568**
(partnered with the University of Alaska, over came all shipping issues and finished all 4 stages, started with no hydrogen, resourced a local hydrogen supplier - Air Liquide, purchased a regulator and fittings using money from BP Grant, used a step down valve to test their fuel cell with a large tank, in a frozen tundra, HS hoods shut down daily at 3:30 - limited lab time, very persistent)(note: difficulty of providing power to remote villages in Alaska but the frozen tundra is a large carbon sink)
4. FirstFuelCells.com, **INNOVATION & CREATIVITY AWARD (New Jersey)**
School Name: **Burlington County Institute of Technology**
Team Name & Number: **Team 816**
(Demonstration Video showing the Chemistry of a Fuel Cell - on stage using 3 sets of twins, basketballs, water bottles and props)
(Best Leak Test at a Balloon Store, out in the field - tested their fuel cell with helium to conserve their hydrogen, excellent planning and team work)

2007 STAGE 1-4 AWARDS

Stage 1 (Research & Development)

1. FirstFuelCells.com, **2007 Gold Award: Fuel Cell Research & Development (New Hampshire)**
School Name: **St. Thomas Aquinas High School**
Team Name & Number: **Team 1307**
2. FirstFuelCells.com, **2007 Silver Award: Fuel Cell Research & Development (Alaska)**
School Name: **A.J. Dimond High School**
Team Name & Number: **Team 568**
3. FirstFuelCells.com, **2007 Bronze Award: Fuel Cell Research & Development (California)**
School Name: **Pinewood High School**
Team Name & Number: **Team 1560**

Stage 2 (Building & Testing a Fuel Cell/System)

1. FirstFuelCells.com, **2007 Gold Award: Building & Testing a Fuel Cell/System**
School Name: **Mt. Olive High School**
Team Name & Number: **Team 11**
(operated both a 10cell stack and 20 cell stack, went a long way to make the fuel cell useful for the game)
2. FirstFuelCells.com, **2007 Silver Award: Building & Testing a Fuel Cell/System**
School Name: **Burlington County Institute of Technology**
Team Name & Number: **Team 816**
(also toured glass factory to study their use of hydrogen)
3. FirstFuelCells.com, **2007 Bronze Award: Building & Testing a Fuel Cell/System (Colorado)**
School Name: **Grand Messa High School**
Team Name & Number: **Eagle Corps Robotics Team 1158**

Stage 3 (Game Design and Hydrogen Safe Game Floor)

1. FirstFuelCells.com, **2007 Gold Award: Fuel Cell Game Design "Robot Hockey" (Colorado)**
School Name: **Grand Messa High School**
Team Name & Number: **Eagle Corps Robotics Team 1158**
(included recharge cart, used FRC Robot and Vex in game, team succeeded in running both FRC Robot and VEX with a fuel cell system)
2. FirstFuelCells.com, **2007 Silver Award: Fuel Cell Game Design "Lazer Maze Craze" (Minnesota)**
School Name: **Edina High School**
Team Name & Number: **Team 1816**
3. FirstFuelCells.com, **2007 Bronze Award: Fuel Cell Game Design "Cube It"**
School Name: **Mt. Olive High School**
Team Name & Number: **Team 11**

Stage 4 (Insertion of a Fuel Cell System in a Competition Robot)

1. FirstFuelCells.com, **2007 Gold Award: Insertion of a Fuel Cell System in a Competition Robot (FRC) Indiana**
School Name: **School City of Hammond**
Team Name & Number: **Hammond Robotics Team 71**
(Fuel Cell Hybrid System used as a battery recharger during competition, 3hrs fully recharges battery-15volts /VS Battery at 4hrs)
2. FirstFuelCells.com, **2007 Gold Award: Insertion of a Fuel Cell System in a Competition Robot (VEX) Oklahoma**
School Name: **Ponca City High School**
Team Name & Number: **Team 476**
(Test Analysis include: battery only, fuel cell only, fuel cell battery hybrid system)
3. FirstFuelCells.com, **2007 Gold Award: Insertion of a Fuel Cell System in a Competition Robot (Experimental) Ohio**
School Name: **East Technical High School**
Team Name & Number: **Scarabian Knights Team 120**
(Excellent partnership with their industrial sponsor - Graftech, a fuel cell manufacturer)