

**Old Guard Oral Presentation Competitors**

|           |             |                                 |  |
|-----------|-------------|---------------------------------|--|
| Tim       | Witushynsky | Case Western Reserve University | Micro Air and Land Vehicles  |
| Megan     | Quick       | Case Western Reserve University | Optimization of a Five Strand Billet Caster with an Unshrouded Tundish-to-Mold Stream              |
| Stephen   | Ziegenfuss  | Cedarville University           | A Boat that Flies!   |
| Joseph    | Miller      | Cedarville University           | Design for Efficiency: an Aerodynamic Supermileage® Vehicle  |
| Christina | Cottrill    | Fairmont State University       | Leslie Brothers Kiln   |
| Brandon   | Harmon      | Grand Valley State University   | Material Selection and Design of the Acetabular Component in Total Hip Arthroplasty                |
| Dennis    | Smith       | Grand Valley State University   | Hydraulic Foils  |
| Kenny     | Hoovler     | PENN STATE ERIE                 | Properties and production methods for hand laid carbon fiber composites                            |
| Joshua    | Borden      | Penn State, Erie                | LED Lamp Thermal Study   |
| Stephen   | Hart        | The Ohio State University       | Accelerated Bone Growth Remotely Induced by Magnetic Fields and Smart Materials                    |
| Alan      | Jennings    | University of Akron             | System Identification and Open Loop Control of a Pneumatic Actuation System                        |
| Brian     | Porto       | University of Akron             | Coupling of Generator and Internal Combustion Engine on The University of Akron Challenge X Hybrid |
| Nicholas  | Hoffman     | University of Dayton            | Low Power Linear Stepper Motor   |

**Old Guard Technical Poster Competitors**

|                |               |                                   |   |
|----------------|---------------|-----------------------------------|---|
| Caroline       | Conley        | Carnegie Mellon University        | Fabrication and Testing of Miniature Single Crystal Diamond Cutting Tools |
| Steve          | Kreuzer       | Case Western Reserve University   | Mechanobiological Influences on Endogenous Tissue Engineering Strategies  |
| Anthony        | Nally         | Case Western Reserve University   | Spinal Fractures: A Rat's Tail  |
| Haley          | Nghiem        | Grand Valley State University     | Automatic Firing Device   |
| Greg           | Wolters       | Grand Valley State University     | Jominy End-Quench Apparatus   |
| Douglas        | Sage          | Michigan Technological University |   |
| Ryan           | McCarthy      | Penn State Erie                   | Rapid Prototyping   |
| Jason          | Zimmerman     | Penn State Erie                   | Thermite Welding  |
| Joshua         | Guarino       | University of Akron               | FSAE Power Train Cooling System   |
| James          | Nazarian, Jr. | University of Akron               | Chassis Innovations for The University of Akron FSAE Car                  |
| Matthew        | Kocoloski     | University of Dayton              | Energy Harvesting Potential   |
| Thomas         | Wenning       | University of Dayton              | Banjo Bolt Design   |
| Christine Iris | Elliott       | University of Toronto             | Insulin Pumping Mechanisms  |

**Old Guard Technical Web Page Contestants**

|         |           |                               |   |
|---------|-----------|-------------------------------|---|
| Ryan    | Pocratsky | Grand Valley State University | Funambulijm Machine   |
| Jeffrey | Heintz    | Penn State Erie               | Study of Vibration Suppression of a Class 8 Truck Mirror for Truck-Lite |
| Thomas  | Wenning   | University of Dayton          | Banjo Bolt Design   |

**Student Design Contest Entries**

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|--|------------------------------|--|
| Carnegie Mellon University                             | FishMeBot 2.0                | Tim Sandy<br>Kyle Holland<br>Brian Rose<br>Mark Schumacher           |
| Lake Superior State University                         | PLAN A                       | Price McAllister<br>Tom MacMillan<br>Tyler Skowronek<br>Jim Dilworth |
| Michigan State University                              | The ADvantA,J                | Andy Hartsig<br>Aaron Huber<br>Jon Bendert<br>David Gasparovich      |
| Michigan State University                              | Red Cedar Sea Monster Hunter | Chris Matulis<br>Jason Peabody<br>Eric Gawel                         |
| Michigan Technological University                      | MTU                          | Andy Ludy<br>Nick Dumler<br>Kris Harrington                          |
| University of Cincinnati<br>College of Applied Science | Sure Shot                    | Ben Schulte<br>Kevin Rodgers<br>Gary Stenko                          |
| University of Cincinnati                               | UnCLE CARL                   | Matt Daniel<br>Mark McCrate<br>Brian Guerriero                       |
| University of Detroit Mercy                            | The Fishing Gun              | Chris Fox<br>James Hadley<br>Liz Hardy<br>Alex Johnson               |

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