

DISTRICT B
2007 STUDENT PROFESSIONAL DEVELOPMENT CONFERENCE (SPDC)
Host: University of Michigan, Ann Arbor, MI – March 30 – April 1, 2007

OLD GUARD ORAL PRESENTATION COMPETITION			
PLACE	PRIZE	NAME \ SCHOOL	PRESENTATION TITLE
FIRST	\$500*	Shannon Yee Ohio State University	Design of a Scanning Tunneling Microscope
SECOND	\$150	Jennifer Lukens University of Dayton	Landing a Bird-like Micro Air Vehicle
THIRD	\$100	M. K. Anand University of Windsor	Flying High
FOURTH	\$50	Bryan Pelley University of Dayton	Dishwasher Heat Recovery System
FIFTH (Optional)	Certificate	Michael Frank University of Akron	Evaluation of Steering Feel Using a Tire/Vehicle Simulation Model
BEST TECHNICAL	\$50	Shannon Yee Ohio State University	Design of a Scanning Tunneling Microscope
ALL CONTESTANTS	FIRST YEAR UPGRADE DUES PAYMENT AND CERTIFICATE OF PARTICIPATION		
*CERTIFICATE FOR WINNER AND CERTIFICATE FOR SCHOOL OF WINNER PLUS SUBSIDY TO ATTEND ASME MECHANICAL ENGINEERING CONGRESS & EXPOSITION (IMECE OR CONGRESS), NOVEMBER 10-17, 2007 IN SEATTLE, WASHINGTON, TO COMPETE IN THE INTERNATIONAL COMPETITION			

Old Guard Oral Presentation Competition			
Cedarville University Bill Obaker Self-Deployable Composite Swim Prosthesis	Cedarville University Chris Plume Cooling System for Third-World Generator	Grand Valley State University Benjamin Davison The Sterling Engine	Ohio Northern University Garett Foley Amphibious Human Powered Vehicle
Ohio Northern University Justin Hiskey Swimming Resistance Device	Ohio State University Shannon Yee Design of a Scanning Tunneling Microscope	Penn State – Erie Jason Benkert Study of Acoustic Speaker Vibration Isolation	Rochester Institute of Technology Timothy Brackbill The Progress of the science of laminar flows
Rochester Institute of Technology Todd Fernandez Design principles and new technologies of shaft based power transfer	University of Akron Marc Lemmons Development of an Optimal Restrictor Design	University of Akron Michael Frank Evaluation of Steering Feel Using a Tire/Vehicle Simulation Model	University of Cincinnati Ryan Stobbs What's Right for You
University of Dayton Jennifer Lukens Landing a Bird-like Micro Air Vehicle	University of Dayton Bryan Pelley Dishwasher Heat Recovery System	University of Toronto Beatrice Sze Expanding Boundaries: The MRI-P Project	University of Toronto Kristine Szeto Environmental analysis of wine bottle recycling
University of Windsor Madhan Krishn Anand Flying High	Wright State University James Dahlman Corrosion Properties of Calcium Based Bulk Metallic Glasses		

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OLD GUARD TECHNICAL POSTER COMPETITION			
PLACE	PRIZE	NAME	SCHOOL
FIRST	\$200*	Jessica Tinianov University of Toronto	Design of an Emerging Cup Holder from a Horizontal Surface
ALL CONTESTANTS	FIRST YEAR UPGRADE DUES PAYMENT AND CERTIFICATE OF PARTICIPATION		
*CERTIFICATE FOR WINNER AND CERTIFICATE FOR SCHOOL OF WINNER			

Old Guard Technical Poster Competition			
Grand Valley State University Gerald Byrd Shooting Dragon	Grand Valley State University Alex Reed The Star Soccer Robot	Lake Superior State University Stephen Tillotson	Ohio Northern University Devon Kaiser Motorcycle Stability Project
Ohio Northern University Tyler Wight ONU Engine Dynamometer	Penn State - Erie John Hallberg Autonomous Stair Climbing Hexapod	Penn State – Erie Eric Johnson Rapid Prototyping	Rochester Institute of Technology Matt Giarra Bulk Mechanical Properties of Single Walled Carbon Nanotube Electrodes
University of Akron Michael Hoffman Design of SAE Aero Design Aircraft with Unique Innovations	University of Dayton Daniel DeBrosse Modeling Kinematics, Statics and Dynamics of Coupler-driven Four-bars	University of Dayton Nicholas Hoffman Design of Low Cost Wood Moisture Meter	University of Rochester Steven Ivancic Design of Opto-mechanical Devices
University of Rochester Sarilyn Swayngim Heat of Hydration: An Alternative Approach	University of Toronto Dante Sanchez Motorized Air Vents	University of Toronto Jessica Tinianov Design of an Emerging Cup Holder from a Horizontal Surface	West Virginia University John Brewer Rheometric Aging of Silica Based Sol-Gel Materials at Different Dilution Levels
West Virginia University Nicholas Hansford Stability of Colloidal Tin Oxide in Aqueous Suspensions with Additional Surfactants			

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OLD GUARD TECHNICAL WEB PAGE COMPETITION			
PLACE	PRIZE	NAME	SCHOOL
FIRST	\$200*	Jeff Harris University of Toronto	In Situ Extraction of Bitumen using Heat Engines
ALL CONTESTANTS	CERTIFICATE OF PARTICIPATION		
*CERTIFICATE FOR WINNER AND CERTIFICATE FOR SCHOOL OF WINNER			

Old Guard Technical Web Page Competition			
Grand Valley State University Michael Bray Medical materials	Grand Valley State University Brandon Harmon Water Still Energy Saver	Grand Valley State University Ryan Pocratsky Biofuels	Lake Superior State University Skylar Clark
University of Dayton Nicholas Hoffman Modification of the PM-438 Panel Meter for Ratiometric Resistance Measurement	University of Dayton Jennifer Lukens Landing a Bird-like Micro Air Vehicle	University of Toronto Jessica Tinianov Design of an Emerging Cup Holder from a Horizontal Surface	University of Toronto Jeff Harris In Situ Extraction of Bitumen using Heat Engines
University of Toronto Pawel Kosicki Michigan Land Surveying	West Virginia University John Brewer WVU Balloon Satellites Program		

STUDENT DESIGN COMPETITION			
PLACE	PRIZE	NAME	SCHOOL
FIRST	\$200* + TROPHY	: Timothy Downing, David Siegel, Ryan Smith, Brian Stebbins	Spinning Widget Team University of Cincinnati
SECOND	\$100 + PLAQUE	Team: Andrew Schafer, Brandon Gulker, Jacob Schulz, Gregory Schafer	Jaws Michigan State University
THIRD	\$50 + PLAQUE	Team: Tony Nguyen, Ryan French, Matt Simonie, Marcos Zamora	White Lightning University of Detroit Mercy
THIRD	\$50 + PLAQUE	Team: Brandon Harmon, Matthew Miller, Noah Hopson, Derek Maxim	Water Maker Grand Valley State University
ALL CONTESTANTS	CERTIFICATE OF PARTICIPATION		
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Student Design Competition			
Carnegie Mellon University The Pedal Powered Purifier Alexander Williams, Bradley Hall, Michael Cushman, Erika Bannon	Central Michigan University The Snap Dragon Michael Seabright, Kurtis Wells, Josh Loewen, Eric Robinson	Cleveland State University The Ironman Benjamin Krembs, Harpreet Singh, Marius Manastireanu	Grand Valley State University Water Maker Brandon Harmon, Matthew Miller, Noah Hopson, Derek Maxim
McGill University TETHYS Arman Oduncuoglu, Andrew Laughton, Zinan He, John Philip Venturi	Michigan State University Jaws Andrew Schafer, Brandon Gulker, Jacob Schulz, Gregory Schafer	Ohio Northern University Chug-A-Lug Tyson Foley, Christine Fingerle, Mark Hunter, Dustin Wirick	Penn State University/University Park Nittany Water Auto-Cycle Craig Blackburn, Drew Logan, Jason Stine, Shuntaro Tanaka
Penn State University/University Park Synergy Thomas Trupe, Josh Stuckey, Josh Melin, Daniel Bich	University of Akron Team Burn Michael Franz, Daniel Frank, Jerad Jacobs	University of Akron Ach Two Oh David Papania, Jeffrey Weyand	University of Cincinnati Spinning Widget Timothy Downing, David Siegel, Ryan Smith, Brian Stebbins
University of Detroit Mercy Distiller of Death Mark Fazi, Rayman Hannish, Benjamin Wansten	University of Detroit Mercy White Lightning Tony Nguyen, Ryan French, Matt Simonie, Marcos Zamora	University of Dayton Bicycle Powered Still Leana Makia, Jared Kusters, Jeff Milkie, Charlie DeMario	University of Michigan/Ann Arbor HydroBlue Patrick Bowles, Demetria Becharas, Elizabeth Tappan, Happy Wong
West Virginia Institute of Technology Cheapo Justin Scarbro, Nathan Stark, Harry Netzer	University of Toronto Heat it up Ray D'Sa, Thomas Fung, Andy Tse, Andrew Bator		

STUDENT SECTION WITH MOST STUDENTS IN ATTENDANCE

PLACE	PRIZE	SCHOOL
FIRST	\$100	University of Dayton

KM AWARD (# Students x R/T mileage)

PLACE	PRIZE	SCHOOL
FIRST	PLAQUE	University of Dayton

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MISCELLANEOUS INFORMATION

REGISTRATION

SCHOOLS	30	Carnegie Mellon University, Cedarville University, Central Michigan University, Cleveland State University, Gannon University, Grand Valley State University, Lake Superior State University, McGill University, Michigan State University, Ohio Northern University, Ohio State University, Penn State Erie, The Behrend College, Penn State University/University Park, Rochester Institute of Technology, Saginaw Valley State University, The University of Akron, University of Cincinnati, University of Cincinnati/OMI College, University of Dayton, University of Michigan, University of Rochester, University of Toledo, University of Toronto, University of Windsor, West Virginia University, West Virginia University Institute of Technology, Wright State University, Youngstown State University
STUDENTS	235	Includes 13 Students from Host School
SSA	17	Grand Valley State University, Penn State Erie, The Behrend College, The University of Akron, University of Cincinnati/OMI College, Gannon University, Lake Superior State University, Michigan State University, Ohio Northern University, Saginaw Valley State University, University of Rochester, University of Toledo, University of Windsor, West Virginia University, West Virginia University Institute of Technology,
OTHER (District Leader, Judges, Speakers)	18	
TOTAL	270	

COMPETITIONS

	Schools	Entries	# Persons	
Oral	12	18	18	Cedarville University , Grand Valley State University , Ohio Northern University , Ohio State University , Penn State Erie/Behrend College , Rochester Institute of Technology , University of Akron , University of Cincinnati , University of Dayton , University of Toronto , University of Windsor , Wright State University
Poster	10	17	17	Grand Valley State University , Lake Superior State University , Ohio Northern University , Penn State Erie/Behrend College , Rochester Institute of Technology , University of Akron , University of Dayton , University of Rochester , University of Toronto , West Virginia University
Web	4	9	9	Grand Valley State University , Lake Superior State University , University of Dayton , University of Toronto , West Virginia University
Design	15	18	67	Carnegie Mellon University , Central Michigan University, Cleveland State University , Grand Valley State University , McGill University, Michigan State University , Ohio Northern University , Penn State University/University Park , University of Akron , University of Cincinnati , University of Dayton , University of Detroit Mercy , University of Michigan/Ann Arbor , University of Toronto , West Virginia Institute of Technology

SLS REGISTRATION

SCHOOLS	14	Carnegie Mellon University, Lake Superior State University, Michigan State University, Ohio Northern University, Penn State Erie, The Behrend College, University of Cincinnati, University of Cincinnati/OMI College, University of Dayton, University of Toledo, University of Windsor, West Virginia University Institute of Technology, Wright State University, Youngstown State University, University of Michigan
STUDENTS	57	
SSA	3	University of Windsor, University of Dayton, West Virginia University Institute of Technology
OTHER	2	
TOTAL	62	

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Preliminary Agenda
Student Professional Development Conference (SPDC)

Friday, March 30, 2007		
3:00 PM - 9:00 PM	Conference Registration	Holiday Inn
7:00 PM - 9:00 PM	Pizza Party	CHRY CNTR
7:00 PM - End	Movies & Games	CHRY CNTR
Saturday, March 31, 2007		
8:00 PM - 11:00 AM	Conference Registration	CSE
8:30 AM - End	Old Guard Oral Presentation Competition	CSE
10:00 AM - 1:00 PM	Old Guard Technical Poster Competition	CSE
10:00 AM - 1:00 PM	Career Fair	CSE
11:30 AM	Industrial Tours	Varies
12:00 PM	Student Business Meeting	CSE
1:30 PM	Industrial Tours	Varies
2:00 PM - End	Student Design Competition	CSE
7:00 PM	Banquet (<u>Professional Attire</u>)	Holiday Inn
9:00 PM	Impromptu Design Competition	Holiday Inn
9:30 PM	Informal Gathering Place	Holiday Inn
Sunday, April 1, 2007		
7:00 AM - 9:30 AM	Student Section Advisors (SSA) Meeting	Holiday Inn
9:30 AM	Awards Brunch	Holiday Inn

Preliminary Agenda
Student Leadership Training Seminar (SLS)

Friday, March 30, 2007		
3:00 PM	Welcome	Len Anderson, District Leader and University of Michigan Student Section
3:05 PM	Overview of ASME/District B/Student Sections	Len Anderson
3:15 PM	Student Section Programs and Projects	Dr. George Doyle, District B Student Sections Support Group Chair, Student Sections Committee (SSC) Senior Rep, and Society I-R Committee Chair and Tom Wenning, District B SSC Student Rep (Former Region V)
4:05 PM	ASME Resources for Students and Student Sections	Aaron Tsang, District B Operating Board, District B Ingersoll-Rand Judge
4:50 PM	Student Contests & Competitions Student Design Competition Ingersoll-Rand Student Section Competition Old Guard Competitions	Dr. George Doyle and Tom Wenning
5:30 PM	Breakout into Groups: Topic to be determined	All
5:50 PM	Groups BRIEFLY Report Back	All
6:00 PM	Adjourn	Len Anderson and University of Michigan Student Section