

DISTRICT D
2007 STUDENT PROFESSIONAL DEVELOPMENT CONFERENCE (SPDC)
Host: University of Idaho, Moscow, ID – March 30 – 31, 2007

OLD GUARD ORAL PRESENTATION COMPETITION			
PLACE	PRIZE	NAME / SCHOOL	TITLE OF PRESENTATION
FIRST	\$500*	Jennifer Jones Portland State University	Passive Separation of Two-Phase Flows using Conduit Geometry
SECOND	\$150	Andrew Lybarger Seattle University	Appropriate Technology Development for Silver Impregnated Ceramic Water Filter
THIRD	\$100	Erika Tyler Seattle University	From Algae to Biodiesel - A Photobioreactor Design
FOURTH	\$50	Justin Stenkamp Portland State University	Comparison of Coal and Nuclear Power for Electrical Generation
FIFTH	\$25 (Optional) Certificate	Douglas Van Bossuyt Oregon State University	Mercury Rising – Health Consequences of Mercury Exposure in the Engineering Profession
BEST TECHNICAL	\$50	Jennifer Jones Portland State University	Passive Separation of Two-Phase Flows using Conduit Geometry
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 4-10-17, 2007 IN SEATTLE, WASHINGTON, TO COMPETE IN THE INTERNATIONAL COMPETITION			

OLD GUARD ORAL PRESENTATION COMPETITION	
Boise State University Jacob Fouts Rapid Prototyping and New Product Development in Idaho	Green River CC Andrea Roma Cosmic Rays From the End of the Universe
Oregon State University Douglas Van Bossuyt Mercury Rising – Health Consequences of Mercury Exposure in the Engineering Profession	Portland State University Justin Stenkamp Comparison of Coal and Nuclear Power for Electrical Generation
Portland State University Jennifer Jones Passive Separation of Two-Phase Flows using Conduit Geometry	Seattle University Erika Tyler From Algae to Biodiesel - A Photobioreactor Design
Seattle University Andrew Lybarger Appropriate Technology Development for Silver Impregnated Ceramic Water Filter	South Dakota School Of Mines and Technology Mark Hofacker Repetitive Stress Injury
University of Idaho/Moscow Matt Blake RLEP Adaptor for the K-10 Rover	University of Idaho/Moscow Jennifer Hasenoehrl Sleep Sound: An Infant Sleepwear Monitor
Washington State University/Pullman Craig Cordill Kinematics of Electric Motors	Washington State University/Pullman Trevor Jerdee Hybrid rocket design and fabrication

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OLD GUARD TECHNICAL POSTER COMPETITION			
PLACE	PRIZE	NAME	POSTER TITLE
FIRST	\$200*	Nick Harker University of Idaho/Moscow	Instrumented Head design for the UI Clean Snowmobile Challenge
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		
Montana State University/Technology Sam Mather Design of Mechanisms	Oregon Institute of Technology Brennan Sheehy Applications of Materials Exhibiting Negative Coefficients of Thermal Expansion	University of Idaho/Moscow Nick Harker Instrumented Head design for the UI Clean Snowmobile Challenge

OLD GUARD TECHNICAL WEB PAGE COMPETITION			
PLACE	PRIZE	NAME	WEB SITE TITLE
FIRST	\$200*	Jennifer Jones Portland State University	Passive Separation of Two-Phase Flows using Conduit Geometry
ALL CONTESTANTS	CERTIFICATE OF PARTICIPATION		
*CERTIFICATE FOR WINNER AND CERTIFICATE FOR SCHOOL OF WINNER			

OLD GUARD TECHNICAL WEB PAGE COMPETITION			
Portland State University Jennifer L. Jones Passive Separation of Two-Phase Flows using Conduit Geometry	Saint Martin's College Andrew Byers The Futuristic Car	Saint Martin's College Ken Hanson Saints of Engineering	University of Idaho/Moscow Katie Lechliter Operation Charge

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STUDENT DESIGN COMPETITION			
PLACE	PRIZE	NAME	SCHOOL
FIRST	\$200* + TROPHY	Gatorade is Better Danny Duniphin, Dave Hoffman, Seth Oliver	South Dakota School of Mines & Technology
SECOND	\$100 + PLAQUE	Cranky Water Still Lance Johnson, Robert Baenziger, Tyler Goodnight	Montana State University – MET
THIRD	\$50 + PLAQUE	The Killer Stiller Jacoben Tone, Dirk Schmitz, Marcus Becker, Justin Dickey	Montana State University – ME
ALL CONTESTANTS	CERTIFICATE OF PARTICIPATION		
*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			

STUDENT DESIGN COMPETITION		
Human Powered Water Sill Green River Community College Rory Peterson, Dmitry Mironyuk	Safa Pani Idaho State University Dan Hunzeker	The Killer Stiller Montana State University / ME Section Jacoben Tone, Dirk Schmitz, Marcus Becker, Justin Dickey
Cranky Water Still Montana State University/ME Lance Johnson, Robert Baenziger, Tyler Goodnight	Gatorade is Better South Dakota School of Mines & Technology Danny Duniphin, Dave Hoffman, Seth Oliver	Vandal Distilleries University of Idaho/Moscow Garrett Hanson, Paul Sowinski, Kyle Gray Abraham Shyock

STUDENT SECTION WITH MOST STUDENTS IN ATTENDANCE			
PLACE	PRIZE	NAME	SCHOOL
FIRST	\$100		Montana State University - MET

KM AWARD			
PLACE	PRIZE	NAME	SCHOOL
FIRST	PLAQUE		Montana State University - MET

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RADIO CONTROL BAJA CAR COMPETITION			
PLACE	PRIZE	NAME	SCHOOL
FIRST	\$100 Traveling Trophy	Jordan Goldsmith, Trinity Jones, Trevor Pankratz, Logan Lyders, Mitch Gagnon	Montana State University – MET “Car RamRod”
SECOND	\$50	Kenneth Lou, Alex Higgins, Ryan Bailey, Jesse McCormack, Neal Pang	Portland State University – “KARR”
THIRD	Certificate	Kenneth Schlaudraff, John Conniff	Tacoma Community College – “BINFYORD5000”
BEST TECHNICAL	Certificate	Chad Winslow	Central Washington University – “Electric Mayhem”

RADIO CONTROLLED BAJA CAR COMPETITION		
Viking I Brigham Young University-Idaho Nick Montgomery, Jacob Bishop, Rick McKinney, Eric Dodgen	Electric Mayhem Central Washington University Chad Winslow	The Green River Green River Community College Robb Mann, Dmitry Mironyuk
Car RamRod Montana State University / ME Section Jordan Goldsmith, Trinity Jones, Trevor Pankratz, Logan Lyders, Mitch Gagnon	Gopher Montana State University/ME Lance Johnson Robert Baenziger	KARR Portland State University Kenneth Lou, Alex Higgins, Ryan Bailey, Jesse McCormack, Neal Pang
Binfyord5000 Tacoma Community College Kenneth Schlaudraff		

GRADUATE STUDENT TECHNICAL CONFERENCE (GSTC)
GSTC Presenters receive up to \$200 Travel Honorarium

GRADUATE STUDENT TECHNICAL CONFERENCE PRESENTATIONS		
University of Alaska Praveen Namburu Thermophysical Properties Measurement and Numerical Modeling of Nanofluids	University of Idaho Lloyd Gallup Using Axiomatic Design Tools to Evaluate Quality in Capstone Projects	University of Idaho Chris Huck Element Sizing in Truss/Beam Structures Containing Shear Panels Using Genetic Optimization Algorithms
University of Idaho Jason Sagen Lightweight Hybrid Powertrain Design	University of Idaho Matt Smith Determination of Mechanical Properties of Nano-Scale Coil Springs	

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MISCELLANEOUS INFORMATION

REGISTRATION

SCHOOLS	17	Boise State University, Central Washington University, Green River Community College, Idaho State University, Montana State University / Technology, Montana State University/ME, Oregon Institute of Technology/Klamath Falls, Oregon State University, Portland State University, Saint Martin's College, Seattle University, South Dakota School of Mines and Technology, Tacoma Community College, University of Alaska - Fairbanks, Washington State University
STUDENTS	95	Includes 26 from Host School
SSA	11	Central Washington University, Green River Community College, Montana State University/Technology, Montana State University/ME, Oregon State University, Saint Martin's College, Seattle University, South Dakota School of Mines and Technology, Tacoma Community College, University of Alaska/Fairbanks, University of Idaho/Moscow
OTHER (District Leader, Judges, Speakers)	13	

TOTAL **119**

COMPETITIONS

Schools	Entries	# Persons
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Oral	8	12	12	Boise State University, Green River Community College, Oregon State University, Portland State University, Seattle University, South Dakota School Mines & Technology, University of Idaho/Moscow, Washington State University/Pullman
Poster	3	3	3	Montana State University/Technology, Oregon Institute of Technology/Portland, University of Idaho/Moscow
Web	3	4	4	Portland State University, St. Martin's College, University of Idaho/Moscow
Design	5	6	17	Green River Community College, Idaho State University, Montana State University, South Dakota School of Mines & Technology, University of Idaho/Moscow
RC Baja	5	7	19	Green River Community College, Idaho State University, Montana State University / ME, South Dakota School of Mines & Technology, University of Idaho/Moscow
GSTC	2	5	5	University of Alaska/Fairbanks, University of Idaho/Moscow

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PRELIMINARY SCHEDULE OF EVENTS

FRIDAY, March 30, 2007

3:00 PM - 5:00 PM	Registration & SSC candidates sign up (SSC candidates see note below)	Gauss-Johnson Rm. 115
3:00 PM - 5:00 PM	T-shirt Check-in	Gauss-Johnson
5:00 PM – 5:15 PM	Welcome/Reception	Gauss-Johnson Rm. 108
5:15 PM - 6:00 PM	Dinner	Gauss-Johnson Rm. 108
6:00 PM - 7:00 PM	Early Old Guard Oral Presentations	Gauss-Johnson Rm 112
6:00 PM - 7:00 PM	Student Design Check-in & Inspection	Gauss-Johnson Rm. 112
7:15 PM - 9:00 PM	Student Design Competition	Gauss-Johnson Rm. 112

SATURDAY, March 31, 2007

7:00 AM - 8:00 AM	Breakfast Meeting (Chairs/Advisors)	*Wellspring Room
7:30 AM - 8:00 AM	Breakfast (on own)	Hotels
8:15 AM - 12:00 AM	Old Guard Orientation (15min) Presentations:	
	Graduate Student Technical Presentations	*Clearwater Room
	Old Guard Oral Presentation Competition	*Whitewater Room
10:00 AM - 11:00 AM	**SSC Interviews	Wellspring
	Old Guard Technical Poster Check in & Setup	Whitewater Lobby
	Web Site Check-In and Setup	Whitewater Lobby
12:00 PM - 1:00 PM	Lunch with Speaker	Whitewater Room
1:00 PM - 4:00 PM	Old Guard Oral Presentation Competition	Whitewater Room
1:00 PM - 4:00 PM	Technical Web Site Viewing	Whitewater Lobby
1:00 PM - 4:00 PM	Old Guard Technical Poster Viewing	Whitewater Lobby
2:30 PM - 3:30 PM	RC Baja Judging (Team Presentations)	Memorial Gym or TLC
4:00 PM - 7:00 PM	RC Baja Competition	Memorial Gym
7:30 PM - 9:00 PM	Awards Dinner and Closing	University Inn

Posted: January 27, 2007