

**DISTRICT F**  
**2007 STUDENT PROFESSIONAL DEVELOPMENT CONFERENCE (SPDC)**  
**Host: University of South Carolina, Columbia, SC – March 23 - 24, 2007**

<b>OLD GUARD ORAL PRESENTATION COMPETITION</b>			
PLACE	PRIZE	NAME / SCHOOL	TITLE OF PRESENTATION
FIRST	\$500*	Stephen Clark Duke University	Reducing Water Vapor Intrusion in Pressure Sense Lines of an Upper Stage Rocket Engine
SECOND	\$150	Jessica Sheehan University of Virginia	Optimization of Heat Pipes
THIRD	\$100	Patrict Feucht Virginia Tech	Biomechanics of Hip Compression: A study of force and displacement in human hips
FOURTH	\$50	Vivek Saxena University of North Carolina - Charlotte	Structured surfaces and machine damping
FIFTH	\$25	Matthew de Stadler University of Virginia	Optimization of the Geometry of a Heat Sink
BEST TECHNICAL	\$50	Jessica Sheehan University of Virginia	Optimization of Heat Pipes
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			

<b>Old Guard Oral Presentation Competition</b>		
<b>Duke University/Pratt School of Engineering</b> <b>Stephen Clark</b> Reducing Water Vapor Intrusion in Pressure Sense Lines of an Upper Stage Rocket Engine	<b>North Carolina State University</b> <b>Aditi Shah</b> Railway Spike Setting System	<b>North Carolina State University</b> <b>Niyati Shah</b> Artificial Muscle Powered Glove for the Rehabilitation of Recovering Stroke Patients
<b>University of North Carolina - Charlotte</b> <b>Vivek Saxena</b> Structured surfaces and machine damping	<b>University of North Carolina - Charlotte</b> Ron Roberti Femoral Fixator/Distractor	<b>University of Virginia</b> <b>Jessica Sheehan</b> Optimization of Heat Pipes
<b>University of Virginia</b> <b>Matthew de Stadler</b> Optimization of the Geometry of a Heat Sink	<b>Virginia Polytechnic Institute and State University</b> <b>Patrict Feucht</b> Biomechanics of Hip Compression: A study of force and displacement in human hips	<b>Virginia Polytechnic Institute and State University</b> Devin Rouse Virginia Tech Hybrid Electric Vehicle Team

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<b>OLD GUARD TECHNICAL POSTER COMPETITION</b>			
PLACE	PRIZE	NAME / SCHOOL	POSTER TITLE
FIRST	\$200*	Shelton Tate Virginia State University	Performance of an Engine Operated on Biodiesel Fuel
ALL CONTESTANTS	FIRST YEAR UPGRADE DUES PAYMENT AND CERTIFICATE OF PARTICIPATION		
*CERTIFICATE FOR WINNER AND CERTIFICATE FOR SCHOOL OF WINNER			

<b>Old Guard Technical Poster Competition</b>		
<b>University of South Carolina</b> <b>Crystal Byrd</b> Hydrogen Fuel in Compression Ignition Engines	<b>Virginia State University</b> <b>Shelton Tate</b> Performance of an Engine Operated on Biodiesel Fuel	<b>Virginia Polytechnic Institute and State University</b> <b>Tiffany Murray</b> Hy-V: Mach 5 Scramjet

<b>OLD GUARD TECHNICAL WEB PAGE COMPETITION</b>			
PLACE	PRIZE	NAME / SCHOOL	WEB PAGE TITLE
FIRST	\$200*	Crystal Byrd University of South Carolina	Hydrogen Engines
ALL CONTESTANTS	CERTIFICATE OF PARTICIPATION		
*CERTIFICATE FOR WINNER AND CERTIFICATE FOR SCHOOL OF WINNER			

<b>Old Guard Technical Web Page Competition</b>		
<b>North Carolina State University</b> <b>Matthew Hobbs</b> Automotive Engineering	<b>University of South Carolina</b> <b>Crystal Byrd</b> Hydrogen Engines	<b>Virginia Polytechnic Institute and State University</b> <b>Tiffany Murray</b> Hy-V: Mach 5 Scramjet

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<b>STUDENT DESIGN COMPETITION</b>			
PLACE	PRIZE	NAME	SCHOOL
FIRST	\$200* + TROPHY	Joseph Johnson, Tariq Franklin, Darius Brooks, Ishawn Patel	Trojan Explosion Virginia State University
SECOND	\$100 + PLAQUE	Jereme Gilbert, Travis Gordon, Mike Overkamp, Chris Williams	UNCC Water Distillation Device University of North Carolina - Charlotte
THIRD	\$50 + PLAQUE	Andrew Phy, David Huntington, Matt Hobbs, James Nguyen	Round 'n Round North Carolina State University
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			

<b>Student Design Contest</b>		
<b>Round n' Round</b> <b>North Carolina State University</b> Matthew Hobbs, James Nguyen, David Huntington Andrew Phy	<b>Human Powered Water Still</b> <b>Old Dominion University</b> Ryan Holloman, Ashley Stevens, Jimmy Orca Masod Naderpoor	<b>NCA&amp;T Aqua Still</b> <b>North Carolina A&amp;T State University</b> James Tate, Jason Monk, Corey Yarborough
<b>UNCC Water Distillation Device</b> <b>University of North Carolina - Charlotte</b> Jereme Gilbert, Travis Gordon, Mike Overkamp Pat Stark	<b>Human Powered Water Still</b> <b>University of Virginia</b> Michael Cirino, Allison Rutherford, John Lamp Jeremy Riddick	<b>RAMS</b> (Readily Available Man powered Still) <b>Virginia Commonwealth University</b> James Davis, Kenneth Kolakowski, John Clements
<b>Trojan Explosion</b> <b>Virginia State University</b> Tariq Franklin, Joseph Johnson, Darius Brooks Ishakumar Patel	<b>EDDY</b> (Electromagnetic Distillation Design for hYdration) <b>Virginia Tech</b> Eric Schaeffer, Devin Rouse, Keith Eyerman, Chase Counts	

<b>STUDENT SECTION WITH MOST STUDENTS IN ATTENDANCE</b>			
PLACE	PRIZE	NAME	SCHOOL
FIRST	\$100		Virginia Tech

<b>KM AWARD</b>			
PLACE	PRIZE	NAME	SCHOOL
FIRST	PLAQUE		Virginia Tech

**MISCELLANEOUS INFORMATION**

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**REGISTRATION**

SCHOOLS	12	Duke University, Mercer University, Mississippi State University, North Carolina State University, Old Dominion University, University of North Carolina - Charlotte, University of South Carolina, University of Virginia, Virginia Commonwealth University - Richmond, Virginia State University,
STUDENTS	72	Host Unknown
SSA	4	North Carolina State University, University of North Carolina Charlotte, Virginia State University, Virginia State University,
OTHER (District Leader, Judges, Speakers)	2	

**TOTAL**                                **78**        **Incomplete Information** – USC never advised how many persons attended from their university nor did they advise on guest speakers, judges, etc.

**COMPETITIONS**

	<b>Schools</b>	<b>Entries</b>	<b># Persons</b>	
Oral	5	9	9	Duke University/Pratt School of Engineering, North Carolina State University, University of North Carolina - Charlotte, University of Virginia, Virginia Polytechnic Institute and State University,
Poster	3	3	3	University of South Carolina, Virginia Tech, Virginia State University
Web	3	3	3	North Carolina State University, University of South Carolina, Virginia Tech
Design	9	8	30	North Carolina A&T State, North Carolina State, Old Dominion University, University of North Carolina/Charlotte, University of Virginia, Virginia Commonwealth University/Richmond, Virginia Tech

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**Preliminary Program**

**Friday, March 23**

5:00-8:00 PM Registration sign-in and dinner at The Inn at USC  
Check in to the hotel, sign in to the conference, enjoy a BBQ buffet

8:00-10:00 PM Opening remarks and activities at The Inn at USC  
Official words of welcome, go over schedule and a map of the area, meet other students and compete in an ice-breaker impromptu contest

**Saturday, March 24**

7:00-8:45 AM Breakfast at The Inn  
Walk or catch a shuttle to the engineering buildings

9:00-10:30 AM 1st oral presentation session

10:30-10:45 AM Coffee break

10:45 -12:15 PM 2nd oral presentation session

12:15-1:00 PM Lunch

1:00-3:30 PM Design contest, poster hall open for viewing  
If required, an additional oral presentation will run concurrently with the design contest

3:30-5:00 PM Final oral presentation session

5:00-6:00 PM Research facilities tour, shuttles run to hotel

6:45-7:30 PM Shuttles run to dinner

7:30-10:00 PM Dinner and awards ceremony, keynote speaker, closing remarks