

**U.S. ARMY, NAVY, AND AIR FORCE SPONSORED 47TH NATIONAL JUNIOR SCIENCE & HUMANITIES SYMPOSIUM**  
**April 29 – May 3, 2009 (tentative program)**

*Recognizing the need for highly trained scientists and engineers, the U.S. Army, Navy, and Air Force sponsor programs to benefit science and engineering education from the pre-college level to undergraduate and graduate levels. Among the most prominent pre-college programs is the National Junior Science and Humanities Symposia (JSHS) Program. Since its inception in 1958, the primary aims of JSHS are to promote research and experimentation at the secondary school level and to recognize students for original research achievements.*

*The National JSHS will bring together 240 high school students, their teachers, university faculty, and other guests. All attending students have conducted original research in the sciences, engineering, or mathematics and progressed through paper competitions held at 48 nationwide JSHS regional symposia. Attending student delegates and chaperones will have the opportunity to interact with scientists and engineers representing academia, government, industry, and the military at scheduled career roundtables, tours of R&D facilities, and throughout the program.*

*The Air Force Office of Scientific Research, Arlington, Virginia, and the U.S. Air Force Academy, Colorado Springs, will host the 47<sup>th</sup> National JSHS. The National JSHS Program is sponsored by U.S. Army Research Laboratory's Army Research Office, Research Triangle Park, NC; Office of Naval Research, Arlington, VA; and the Air Force Research Laboratory's Air Force Office of Scientific Research. JSHS is administered by the Academy of Applied Science, Concord, NH, in cooperation with higher education.*

**Wednesday, April 29**

<b>Time</b>	<b>Event/Location/Speaker</b>		
11:00 am – 7:00 pm	<b>Participant arrivals and registration – Doubletree World Arena, Cherry Creek Ballrooms</b>		
Speaker testing room available in Fountain Creek All presenters must bring their PPT on a thumb drive or similar device, and plug into existing PC-based equipment			
6:30 pm – Dinner, Park Ballroom			
7:30 pm	<b>Dinner and General Session I – Park Ballroom</b>		
	Welcome and orientation: David A. Streat, Program Manager, Air Force Office of Scientific Research, Arlington, Virginia		
	<b>Conduct of the student paper competition:</b> Dan Wulff, Ph.D., and Charles Granger, Ph.D., Co-Chairs, National JSHS Judging Panel		
<b>Thursday, April 30</b>			
7:00 am	Breakfast – Windows and Maxi's, Lobby area		
Speaker testing room available in Fountain Creek All presenters must bring their PPT on a thumb drive or similar device, and plug into existing PC-based equipment			
7:45 am	Orientation – Judges and moderators, Mountain View Boardroom, Lobby		
9:00 am	<b>Student Research Presentations – Competitive paper presentations presented by 96 student finalists, over two days, from each of 48 regional symposia – Doubletree World Arena</b>		
	(Student speakers schedule published after April 10)		
	Environmental sciences – Session 1 Pueblo	Life sciences – Session 2 Academy	
	Life sciences – Session 3 Palmer	Medicine and health/behavioral sciences – Session 4 Douglas	
	Medicine and health/behavioral sciences – Session 5 El Paso		
12:00 n – Lunch, Windows and Maxi's, Lobby area			
1:30 pm	<b>Student Research Presentations – Competitive paper presentations continue, presented by 96 student finalists from each of 48 regional symposia</b> (Student speakers schedule posted after April 10)		
6:00 p.m.	<b>Dinner and General Session II – Park Ballroom</b>		
	Remarks: David A. Streat, Program Manager, AFOSR/AFRL		
	Address: Jena Cisco, National Defense Science and Engineering Graduate (NDSEG) Fellow, Clemson University		

Friday, May 1

7:00 am	Breakfast – Park Ballroom					
8:30 am	Board buses for departure – U.S. Air Force Academy					
9:30 am	<p><b>General Session III – Fairchild Hall, U.S. Air Force Academy</b></p> <p>Welcome and remarks: Brigadier General Dana H. Born, Ph.D., Dean of the Faculty, U.S. Air Force Academy, Colorado Springs</p> <p>Keynote: Michael Kuliasha, Ph.D., Chief Technologist, Air Force Research Laboratory, Wright Patterson AFB, Ohio</p>					
11:30 am – Lunch, Press Box, USAFA						
1:00 pm	<p><b>Return to Fairchild Hall for departure to R&amp;D tour sites, USAFA</b> – Students and chaperones chose tours during the advance registration process</p> <p>Tour 1 (Max. 35): Modeling and Simulation Research Center Aeronautics Research Center</p> <p>Tour 2 (Max. 15): Laser and Optics Research Center Space Physics and Atmospheric Research Center</p> <p>Tour 3 (Max. 30): Center for Aircraft Structural Life Extension Unmanned Aerial Vehicles (Electrical &amp; Computer Engineering)</p> <p>Tour 4 (Max. 30): Chemistry Research Center Environmental Research Center</p> <p>Tour 5 (Max. 30): Space Systems Research Center Academy Center for Cyber Research</p>					
3:30 pm	Board buses for departure, USAFA					
4:00 pm	<b>Dinner and student program – Mister Biggs</b>					
4:15 pm	<b>JSHS Regional Directors Annual Meeting</b> – Room TBA, Mister Biggs					
7:30 pm	Board buses for return to Doubletree					
Saturday, May 2						
7:00 am	Breakfast – Windows and Maxi's, Lobby area					
7:45 am	Orientation – Judges and moderators, Mountain View Boardroom, Lobby					
9:00 am	<p><b>Student Research Presentations – Competitive paper presentations presented by 96 student finalists, over two days, from each of 48 regional symposia</b> (Student speakers schedule posted after April 10)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Engineering – Session 6 Academy</td> <td style="width: 50%;">Mathematics and computer science – Session 7 Palmer</td> </tr> <tr> <td>Physical sciences, including earth and space - Session 8 Pueblo</td> <td>Run-off session, Life sciences and Medicine &amp; Health/Behavioral – Session 9 Teller</td> </tr> </table>		Engineering – Session 6 Academy	Mathematics and computer science – Session 7 Palmer	Physical sciences, including earth and space - Session 8 Pueblo	Run-off session, Life sciences and Medicine & Health/Behavioral – Session 9 Teller
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12:00 n – Lunch, Windows						
1:30 pm	<p><b>Student Research Presentations – Competitive paper presentations continue, presented by 96 student finalists from each of 48 regional symposia</b> (Student speakers schedule posted after April 10)</p>					
6:30 pm	<p><b>General Session IV - Banquet and Awards Ceremony, Press Box, U.S. Air Force Academy</b></p> <p><b>Keynotes and awards presentation:</b></p> <p><b>U.S. Army:</b> Mr. Gary Martin, Executive Deputy to the Commander, U.S. Army Research, Development and Engineering Command</p> <p><b>U.S. Navy:</b> Walter F. Jones, Ph.D., Executive Director, Office of Naval Research</p> <p><b>U.S. Air Force:</b> Sheila E. Widnall, Ph.D., Institute Professor and Professor of Aeronautics and Astronautics, Massachusetts Institute of Technology, and Former Secretary of the Air Force</p>					
9:00 pm	Shuttle departures for return to Doubletree					

10:00 pm	Midnight dance for students – Colorado Springs Ballroom
Sunday, May 3	
	Board buses for departure – Symposium concludes
6:00 – 10:00 am	Breakfast – Park Ballroom