

<u>Time</u>	<u>Name/Title</u>	<u>Description</u>	<u>Location</u>	<u>A/V or Space Requirements</u>
<b>April 24, 07 Tues. Night</b>				
6:00 – 6:30 pm	Social Hour – Open bar and snacks.	Catered by American Host, Lompoc	Endeavour Center	
6:30 – 7:30 pm	Dinner	Catered by American Host, Lompoc	Endeavour Center	
7:30 – 7:45 pm	AIM Mission DVD. Start during last part of dinner.  <b>Dianne Robinson, PhD</b> Hampton University, Director, AIM Education Outreach	AIM Mission DVD	Endeavour Center	Computer video projector with powerpoint, CD and DVD.
Dinner Presentations 7:45 – 9:30 pm with Q&A	<b>AIM Scientist and Engineer Mission Presentations</b>  <b>AIM Scientists, Dr. James M. Russell III</b> Principal Investigator and/or Co-PI Investigators  <b>Mr. Bob Richards</b> Orbital Sciences Corporation (OSC), Program Manager	Presentations by each person, 30 minutes).  After presentations Q&A session with AIM PI Dr. James M. Russell III and/or Co- PI Scientists, if available.  After presentations, Q&A session with OSC, Rocket Engineer.  Short Bio and Photo sent on each banquet presenter.	Endeavour Center	Computer video projector with powerpoint, CD and DVD.

We will have three workshop sessions (1 hour and 20 minutes each) at Allan Hancock College's Lompoc Valley Center from 10:00 AM to 4:00 pm with lunch a 1 hour lunch and 10 minute breaks in between workshops. All participants will check-in hotel from 4:00 – 5:30 PM and bus will provide transportation (5:45 PM) to the dinner banquet and back to the hotel. All participants must complete a registration form (including Allan Hancock College form) and require the information for Vandenberg AFB access. Dinner banquet and special presentations that night by AIM scientists and engineers, and directors of education at the heart of the AIM satellite mission.

The AIM K-12 Educator Launch Conference Agenda for 24-25 April 2007 is below.

<b>Event Schedule, Tuesday/Wednesday, April 24 &amp; 25, 2007</b>		<b>Program Topics (K-12 grade level focus)</b>
Tuesday Morning	Travel to Allan Hancock College, Lompoc Valley Center. Breakfast on your own.	<ul style="list-style-type: none"> <li>■ Rocketry - 3-2-1-LiftOff</li> <li>■ Pegasus Launch Operations</li> </ul>
10:00 am – 4:00 pm	Educational K-12 workshops at Allan Hancock College, Lompoc Valley Center. Lunch and snacks provided.	<ul style="list-style-type: none"> <li>■ Clouds and More Clouds</li> </ul>
4 – 5:30 pm	Drive cars to Quality Inn Hotel for check-in and bus transportation to/from the hotel to the Endeavour Center for dinner and evening presentations.	<ul style="list-style-type: none"> <li>■ Light &amp; Waves - Electromagnetic Spectrum in the classroom</li> </ul>
6 pm – 7:30 pm	Social hour and dinner at the Endeavour Center.	<ul style="list-style-type: none"> <li>■ AIM Mission</li> </ul>
7:30 pm to 9:30 pm	NASA/Industry scientists and NASA/USAF launch vehicle engineer presentations. Endeavour Center.	<ul style="list-style-type: none"> <li>■ GLOBE</li> </ul>
9:30 – 10:00 pm	Bus transportation (BT) to Quality Inn Hotel from the Endeavour Center	<ul style="list-style-type: none"> <li>■ Voyage on the High Seas</li> </ul>
Wed., 9 am to 11:30 am	Vandenberg AFB Tour (bus pick-up at Quality Inn hotel, 8:45 AM)	<ul style="list-style-type: none"> <li>■ Geologic Attenuation of Cosmic Rays.</li> </ul>
11:45 am – 12:45 pm	Lunch – Officer's Cub Vandenberg AFB	
1:00 – 2:00 pm	Bus transportation to NASA Mission Control Center to view Pegasus launch off CA Coastline (1:25 pm)	
2:30 pm	Bus transportation to Quality Inn after Pegasus launch	

April 24, 2007 (Tuesday, 10 am – 4:00 pm)

Introduction: 10 – 10:10 am (ALL), Workshops: 10:15 am – 11:35 am, Lunch (11:35 am – 12:35 pm), 12:45 pm – 2:05 pm, 10 minute break, 2:15 – 3:35 PM, Final Post Workshop Gathering, 3:45 pm – 4:00 pm

**ALL SESSIONS at Allan Hancock College's, Lompoc Valley Center**

<u>Name/Title</u>	<u>Description, Grade Level and Bio</u>	<u>Location</u>	<u>A/V or Space Requirements</u>
Carlo Cayetano  Workshop Title Rocketry – 3-2-1 Liftoff!  NASA JPL K-12 Education Outreach Instructor	<p>Description: An introduction to rocketry basics, classroom activities, and NASA educational materials</p> <p>Grade Level: Elementary and Middle school</p> <p>Short Bio on Presenter: Carlo Ortega Cayetano is a member of a team of aerospace education specialists employed by Oklahoma State University to acquaint the education and civic communities with the role of the National Aeronautics and Space Administration (NASA) in the exploration of air and space. Mr. Cayetano is presently assigned to the Jet Propulsion Laboratory in Pasadena, CA.</p> <p>Mr. Cayetano is a native of Norwalk, California. He attended Occidental College in Los Angeles and graduated with a degree in human anatomy and physiology. He went on to attend the Harvard Graduate School of Education, in Cambridge, Massachusetts, where he completed a Masters of Education in Science Teaching and Curriculum. Mr. Cayetano also completed requirements to earn teacher certification in grades five through twelve in general science, biology, and human anatomy and physiology.</p> <p>Prior to joining the Aerospace Education Specialist Program, Mr. Cayetano worked at King Kekaulike High School, in Pukalani, Hawaii. There he taught general science and upper level human anatomy.</p> <p>Photo: Sent.</p>	Classroom	Computer Projector, tables for teachers to work at (for hands-on activities)

<p>Robert Coutts</p> <p>Workshop Title Geologic Attenuation of Cosmic Rays.</p> <p>CSUN Part-Time Faculty. 40 year high school physics teacher.</p>	<p>Description: The seminar will discuss experiments that high school science teachers can do with students to measure cosmic rays attenuation in different scenarios in regard to altitude change (sea level versus 10,000 feet), and under the Earth in tunnels. A geological profile can be developed using imaging attenuation data from the Cosmic Ray measuring sensor/instrument.</p> <p>Grade Level: High School</p> <p>Short Bio on Presenter:</p> <p>Graduated from Oakland University with Physics degree, after which I taught Physics at Van Nuys High school for 40 years and lead workshops for teachers at CSUN, UCLA, USC and various private organizations. I became a Woodrow Wilson Fellow at Princeton University, an NSF Fellow at CSUN and an ISME Fellow for the Research Corporation. I was a FOSTER teacher aboard the Kuiper Airborne Observatory, a CHICOS Cosmic Ray Observatory experimenter and creator of the STIP Solar-terrestrial Interaction Project. Currently a part-time faculty at CSUN, supervising student teachers and/or teaching Physical Science in the Geology department.</p> <p>Photo: Sent.</p>	<p>Classroom</p>	<p>Laptop with USB port, projector and web access</p>
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<p>Paul Adams, PhD  Professor of Physics and the  Anschutz Professor of  Education,  Fort Hays State University,  Kansas  Hampton University AIM  Associate</p> <p>Title of Workshop:  Clouds and More Clouds</p>	<p>Description of Workshop:</p> <p>One of the goals of the AIM Mission is to study mesospheric clouds. How do these clouds differ from clouds that form in the troposphere? Why do we study mesospheric clouds? This session will explore cloud formation processes in the troposphere and the mesosphere and differences and similarities between these types of clouds. Demonstrations, investigations, and web-based activities from the AIM Mission education and public outreach site will be explored.</p> <p>Grade Level: Middle to High School</p> <p>Short Bio on Presenter:  Adams has a BS in physics and mathematics from Heidelberg College, Tiffin, OH; MS in physics from Washington State University, Pullman, WA, and a PhD in Science Education from Purdue University, West Lafayette, IN. He teaches astronomy, science methods, curriculum and assessment, and has led several teacher workshops in the areas of physical science and earth systems science. He holds the Anschutz endowed professorship at Fort Hays State University. Adams is assisting with the education and public outreach efforts with the CALIPSO mission.</p> <p>Photo: Sent.</p>	<p>Classroom</p>	<p>Computer projector. Will have own computer. Internet access. Overhead Projector.</p>
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<p>Annie Richardson NASA JPL Education Specialist</p> <p>Workshop Title: Voyage on the High Seas: A NASA Oceanic Adventure</p>	<p>Workshop Description:</p> <p>This workshop includes a short presentation on how NASA/JPL is using satellites to study global ocean phenomena including sea-level height, near-surface winds, and currents and provides an overview of several oceanography education products developed by the Education and Public Outreach team for JPL's Jason satellite altimeter mission. Participants then get to play the Jason board game (which doubles as an educational poster) and try to be the first to sail their research vessel from the Mediterranean Sea to Seattle while gaining the requisite discovery points</p> <p>Grade Level: Elementary and Middle school</p> <p>Short Bio on Presenter:</p> <p>Annie Richardson is an Education and Public Outreach (EPO) Coordinator at NASA's Jet Propulsion Laboratory (JPL) in the Earth Science Public Engagement Office and supports ocean surface topography projects. As an EPO Coordinator she helps develop activities and products for the K-12 education community and for the general public that are consistent with project science goals. She is a frequent workshop presenter at education conferences and guest speaker in public and educational venues.</p> <p>She also supports JPL Earth and Space science proposal activities as an EPO Lead. In this role she designs EPO programs for Earth and Space instruments and missions, and seeks out and develops EPO partnerships and partnering opportunities. She has worked at JPL since 1977.</p> <p>Photo: Sent.</p>	<p>Classroom</p>	<p>Computer projector with CD/DVD and internet connection, tables for teachers to work with Jason board game (for hands-on activities)</p>
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<p>Susan Lini  Research Program  Coordinator CloudSat  Colorado State University,  Atmospheric Science</p> <p>Workshop Title:   Globe.</p>	<p>Workshop Description:</p> <p>This workshop will provide an introduction to the GLOBE Program with an emphasis on connections to AIM and CloudSat. Participants will leave the workshop as GLOBE trained with instructions on how to implement the GLOBE materials in the classroom the next day.</p> <p>Grade Level: Middle and High school</p> <p>Short Bio on Presenter:</p> <p>Susan Lini has been the Research Program Coordinator for Graeme Stephens Research Group at Colorado State University for over 20 years. She spends significant time negotiating contracts, implementing cost accounting standards, and responding to requirements for NASA and JPL. She also coordinates meetings, work extensively in human resources areas, and participates actively in CloudSat/GLOBE Education and Public Outreach activities.</p> <p>Photo: Sent.</p>	<p>Classroom</p>	<p>Computer &amp; projector.  Internet connection.</p>
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<p>Tim Strickland Endeavour Center, Instructor</p> <p>Workshop Title: Light &amp; Waves Fun – Electromagnetic Spectrum</p>	<p>Workshop Description:</p> <p>This presentation/hands-on workshop will curriculum and fun activities with Light &amp; Waves – Electromagnetic spectrum to teach students concepts like the components of white light (stars) using diffraction grading glasses, and how white light consists of all the colors of the rainbow. Other “hands-on” activities that engage students to understand the concept of frequency, doppler shift and use in Astronomy, and building your own spectrosopes. Electromagnetic spectrum will be discussed and how these different energy forms are produced (radio, infrared, light, x-ray and gamma-ray).</p> <p>Grade Level: Elementary and Middle</p> <p>Short Bio on Presenter:</p> <p>Tim Strickland is an Endeavour Center K-12 outreach instructor. He his bachelor’s degree in Astronomy and Physics, Valdosta State University, Georgia and his masters of science in physics, Florida State University.</p> <p>Photo: Sent.</p>	<p>Classroom</p>	<p>Computer &amp; projector.</p>
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