BREAKOUT SESSIONS

The Electromagnetic Spectrum: Connecting Earth to Space
Optics
This session will reveal current technologies in space situational awareness and reveal how scientists and engineers manipulate the electromagnetic spectrum to monitor events happening in space. The activities will include an introduction to light, optics, imaging, and telescopes.
Presented by: Air Force Research and Laboratory & Pacific Defense Solutions

Where are you now?
GIS/GPS
GIS tools are applied in exciting fields ranging from natural resources, conservation, engineering, exploration and more. This session will cover GIS web applications and access to free data from the internet. Learn the tools that will help you manage your world and make it a better place. Explore the world and your community using GIS.
Presented by: Craig Clouet, ESRI

Get Your Ideas Heard - The Basic of Public Speaking - Leadership
Learn the fundamental skills needed for public speaking which will help in all life situations. Presentations at school, competitions, job interviews, college interviews and networking will be more successful with sharpened public speaking skills. This workshop will be interactive and confidence building.
Presented by: Alexis Dascoulias, Camp CenterStage

Body Lingo Bingo
Leadership
One of the most used forms of communications is not spoken word but our body language. Body Lingo Bingo will explore non-verbal communication which consists of body posture, gestures, eye contact and facial expressions. Learn how to walk into a room with confidence and how to read other people's body language. Ever wonder what it means when someone scratches their ear or fidgets or fiddles with their necklace? Find out at Body Lingo Bingo? This interactive workshop will also help you figure out if someone trusts you and if you should trust them.
Presented by: Alexis Dascoulias, Camp CenterStage

Pre-Engineering in 3D - CAD
Discover Pre-Engineering and Design methods using 3D CAD. Participants in this hands on session will see how 3D Technology makes engineering & design interactive. Discover how ideas get transformed into prototypes and products. Onsite training will be provided by Collin Kobayashi, Training Consultant for 3D Academy, A Division of 3D innovations.
Presented by: 3D Academy

Be Aware and Prepared!
Software Applications
Have you ever wondered how we receive up-to-the-minute news of natural disasters occurring around the world? This session will offer an opportunity to get hands-on time with Pacific Disaster Center's (PDC) public applications which include the Global Hazards Atlas and Disaster Alert for your mobile phones. Take a sneak view of the Global Hazards Atlas (www.pdc.org/atlas) which is one of the applications that will be used in this session.
Presented by: Pacific Disaster Center

Digital Video Storytelling
Video
Learn the steps to crafting an engaging video that tells a compelling story. Later, we will conclude with basic interviewing techniques and how to weave them into your production.
Presented by: Mark Hymas, Hawaii DOE Video Specialist

Videography
Video

Develop basic skills used to produce films with strong visual composition. Lessons in key videography techniques used by industry professionals. Learn to tell stories with your pictures. Plenty of hands-on training with video cameras during this workshop.
Presented by: Mark Hymas, Hawaii DOE Video Specialist

MAHALO

We would like to thank the following organizations and individuals for their commitment and support of the 2011 Hawaii STEM Conference.

County of Maui	Alexis Dascoulias	Keolani Noa
Office of the State Director for Career and Technical Education	Dennis Douglas	Nathalie Nunez
Air Force Research Laboratory	ESRI	Oceanit
Mayor Alan Arakawa	Cherilyn Faylogna	Pacific Defense Solutions
Maui County Council	Casey Fukuda	Pacific Disaster Center
Governor Abercrombie	Deanna Garcia	Anna Palomino
U.S. Senator Daniel K. Inouye	David Goldberg	Rob Ratkowski
U.S. Department of Agriculture	Goodfellow Brothers	Elisabeth Reader
U.S. Department of Labor	Hawaii Department of Education	Jan Roberson
U.S. Department of Education	Bonnie Herbert	Peggy Roth
3D Innovations	Mike Herbert	Phil Schmidt
Akimeka LLC	Micah Hoover	Vicky Sensano
Amateur Astronomers	Laurie Hozaki	Starquest Maui
JD Armstrong	Mark Hymas	Rebecca Sydney
Debasis Bhattacharya	Rob Judge	University of Hawaii Institute for Astronomy
Boeing Company	Kihei Charter School	University of Hawaii Maui College
Lori Bragg	Collin Kobayashi	Karen Volarich
Ricky Cabanting	Kawai Kuluhiwa	Wailea Marriott
Dave Cabrera	Tiare Martin	Skip Williams
Camp CenterStage	Maui Astronomy Club	Stacie Williams
Dr. Song Choi	William Nill	Robert Zaleski
Craig Clouet	Daron Nishimoto	

PARTICIPATING SCHOOLS

MOLOKA'I
Moloka'i High School
Moloka'i High School Immersion Program
Moloka'i Middle School
Moloka'i Middle School Immersion Program

OAHU
Farrington High School
McKinley High School
Mililani High School
Roosevelt High School

HAWAI'I ISLAND
Keaau High School
Kealakehe High School

KAUA'I
Chiefess Kamakahelei Middle School
Kaua'i High School

MAUI
Baldwin High School
Kihei Charter High School
King Kekaulike High School
Lahainaluna High School
Maui High School
Maui Waena Intermediate School

HAWAII 2011 CONFERENCE
STEM

April 1 & 2, 2011
Wailea Beach Marriott Resort & Spa
Maui, Hawaii

PROGRAM SCHEDULE

FRIDAY, APRIL 1

Time	Event	Location
10:30 AM	REGISTRATION	AULANI FOYER
11:00	WELCOME	AULANI BALLROOM
11:30	LUNCH AND EXHIBIT BOOTH SETUP	AULANI BALLROOM
1:00-5:00 PM	BREAKOUT SESSIONS	
1:00-2:00	**Higher Education Future**	AULANI BALLROOM
1:00-2:00	**GPS/3D Building Session** *Engineering in Action*	PUAKENIKENI
1:00-2:00	**Software Applications Session** *Be Aware and Prepared!*	VANDA
1:00-3:00	**Optics Session** *The Electromagnetic Spectrum*	JADE/PLUMERIA
1:00-3:00	**Digital Media Session** *Webdesign*	ILIMA
1:00-3:00	**Gaming and Animation Session** *Turning Your Imagination Into Reality*	MAUNA LOA
2:00-3:00	**Career/College Options Session** *High Tech Careers "Local Style"*	PUAKENIKENI
2:00-3:00	**Be Aware and Prepared!** *Software Applications*	VANDA
2:00-4:00	**Energy "Green" Session (Grand Wailea)** *The GREENING*	MEET IN AULANI BALLROOM
3:00-4:00	**Leadership Session** *Body Lingo Bingo*	PUAKENIKENI
3:00-5:00	**CAD Session** *Pre-Engineering In 3D*	MAUNA LOA
3:00-5:00	**Video Session** *Videography*	JADE/PLUMERIA
3:00-5:00	**Digital Media Session** *Photoshop*	ILIMA
3:00-5:00	**Gaming and Animation Session** *Turning Your Imagination Into Reality*	VANDA
4:00-5:00	**Leadership Session *(Get Your Ideas Heard* - *The Basics of Public Speaking*	PUAKENIKENI
4:00-5:00	**Higher Education Future**	AULANI BALLROOM
6:00-7:30	DINNER	AULANI BALLROOM
7:30-9:30	**Astronomy Session** *Star Party*	PACIFIC TERRACE ROOFTOP
10:00 PM	CURFEW (students report to rooms)	

PROGRAM SCHEDULE

SATURDAY, APRIL 2

Time	Event	Location
7:30 AM	BREAKFAST	AULANI BALLROOM
9:00	PIA JUDGING	AULANI BALLROOM
9:00-11:00	BREAKOUT SESSIONS	
9:00-10:00	**GIS/GPS Session** *Where are you now?*	VANDA
9:00-11:00	**Optics Session** *The Electromagnetic Spectrum*	JADE/PLUMERIA
9:00-11:00	**Digital Media Session** *Advanced Photoshop*	ILIMA
9:00-11:00	**Gaming and Animation Session** *Turning Your Imagination Into Reality*	MAUNA LOA
9:00-11:00	**Career/College Options Session** *Android Programming*	PUAKENIKENI
10:00-11:00	**Energy "Renewable" Session** *Geo iPod*	VANDA
11:00	LUNCH	AULANI BALLROOM
1:00 PM	EXHIBITS OPEN TO PUBLIC	AULANI BALLROOM
1:00-3:00	BREAKOUT SESSIONS	
1:00-2:00	**GIS/GPS Session** *Where are you now?*	VANDA
1:00-3:00	**Video Session** *Digital Video Storytelling*	JADE/PLUMERIA
1:00-3:00	**Digital Media Session** *Webdesign*	ILIMA
1:00-3:00	**CAD Session** *Pre-Engineering In 3D*	MAUNA LOA
1:00-3:00	**Career/College Options Session** *Android Programming*	PUAKENIKENI
2:00-3:00	**Energy "Renewable" Session** *Geo iPod*	VANDA
4:00	EXHIBITS CLOSE	AULANI BALLROOM
6:00-8:00	AWARDS BANQUET	AULANI BALLROOM
8:15	MAUI SCHOOLS DEPART HOTEL	FRONT ENTRANCE
10:00 PM	CURFEW (students report to rooms)	

BREAKOUT SESSIONS

Higher Education Future
Career/College Options
Discover the many Higher Education options available to Hawaii students interested in Science, Technology, Engineering, and Math (STEM). Meet representatives from the University of Hawaii Maui College (UHMC), Kapiolani Community College (KCC), and the University of Hawaii's College of Engineering (UHCoE). Learn about the awesome STEM programs offered at their campuses.
Presented by: University of Hawaii Maui College, Kapiolani Community College, University of Hawaii College of Engineer

Engineering in Action
GPS/3D Building
Come and learn how a major civil contractor relies on precision GPS technology to guide their heavy equipment and provide surveying for construction. The presentation will include an overview of precision GPS, 3D modeling, GPS guided heavy equipment, and basic GPS surveying concepts.
Presented by: Goodfellow Brothers

High Tech Careers "Local Style"
Career/College Options
Learn about the many tech-related opportunities available right here at home in Hawaii. Meet young, successful, kama`aina professionals working in local high tech companies as they provide presentations about their cutting edge work, career paths, and tips for success.
Presented by: Akimeka, Oceanit, & Boeing

Android Programming
Career/College Options
Learn about Software Design and Engineering methods using Google's Android, the world's fastest growing mobile software. Participate in this hands-on, interactive session to see how Android software makes mobile applications work on phones, tablets and other devices. Degrees offered at the University of Hawaii Maui College and software engineering careers will be showcased.
Presented by: University of Hawaii Maui College

Photoshop
Digital Media
This session will provide an exciting overview of the versatile capabilities of Photoshop and how it is used in a variety of business environments. Students will learn how to combine concepts, sketches, and photos to create powerful visual imagery and amazing designs. Students who are interested in graphic and web design will find the workshop valuable.
Presented by: Nathalie Nunez

Advanced Photoshop
Digital Media
Want to push your Photoshop skills to the next level and wondering what you should do? This hands-on workshop will be packed full of cool tricks and tips to help you move on to the next level. You will access cool resources, designers and websites to build your own arsenal of creative tools.
Presented by: Nathalie Nunez

Webdesign
Digital Media
This session will provide students with an overview of the ever-expanding and changing web development industry. Hands-on instruction will outline the steps students can take to get their own custom webpage up and running.
Presented by: Nathalie Nunez

The GREENING
Energy "Green"
Did you know there is a "Green" hotel on Maui? Get an exclusive tour with the fabulous Grand Wailea Resort's Facilities Management Team. Winning numerous awards for their Energy Efficiency Program, you will get a first hand look at "green" technologies when touring through the cogeneration system, central plant and laundry mechanical plant.
Presented by: Grand Wailea Resort & Spa

Geo iPod
Energy "Renewable"
Discover how to use the iPod touch for STEM related projects. Collect data with the GPS feature. Analyze data using mapping App's including Google Earth and ESRI ArcGIS. Discover how a handheld computer device can enhance geospatial inquiry on topics like clean energy, resource management, and community planning.
Presented by: MEDB's Women in Technology Project

Turning Your Imagination Into Reality
Gaming/Animation
This session will provide an exciting overview of the Gaming/Animation Industry and the activities taking place in Hawaii. Participants will have the opportunity to learn about the game design process while actually creating their own game. Degrees offered at Kapiolani Community College and the University of Hawaii at Manoa will be discussed during the session.
Presented by: David Goldberg