

**44th Meeting of the
American Astronomical Society's
Division for Planetary Sciences (DPS)
14-19 October 2012
Reno, Nevada**

Scientific sessions will be held at the:
Grand Sierra Resort
2500 East 2nd Street
Reno, NV 89595

DPS Paper Sorters

Paul Abell
Fran Bagenal
Kevin Baines
Nancy Chanover
Deborah Domingue Lorin
Amanda Hendrix
Lou Mayo
Jim Murphy
Vishnu Reddy
Scott Sheppard
Ellen Stofan

Session Numbering Key

100's Monday
200's Tuesday
300's Wednesday
400's Thursday
500's Friday

Sessions are numbered in the Program Book by day and time.
Changes after 10 September 2012 are included only in the online program materials.

Current DPS Officers

Daniel Britt	Chair
Rosaly Lopes	Vice-Chair
Athena Coustenis	Secretary
Andrew Rivkin	Treasurer
Nick Schneider	Education and Public Outreach
Vishnu Reddy	Press Officer
Tony Roman	Webmaster

Current DPS Committee Members

Jason Barnes	term expires October 2012
Dale Cruikshank	term expires October 2013
Melissa McGrath	term expires October 2012
Ralph McNutt	term expires November 2014
Robert Pappalardo	term expires November 2014
Elizabeth (Zibi) Turtle	term expires October 2013
Leslie Young	term expires October 2012

Exhibitors

Exhibitor	Website	Booth Number(s)
Boeing	www.boeing.com	205
Cambridge University Press	www.cambridge.org/us	203
Europlanet*	www.europlanet-eu.org/outreach/	107
NASA Ames Research Center	www.sofia.usra.edu	207
NASA Exoplanet Science Institute & NASA's Kepler Mission*	nexsci.caltech.edu	300
NASA In-Space Propulsion Technology	spaceflight systems.grc.nasa.gov/SSPO/ISPTProg/	204
NASA Planetary Science	solarsystem.nasa.gov	200
NASA Radioisotope Power Systems	rps.nasa.gov	304
Orbital*	www.orbital.com	201
Planetary Data Systems	pds.nasa.gov	206
Space Science Institute	www.space science.org	105
Space Telescope Science Institute	www.stsci.edu	306

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Attendee Services

For everyone's protection, please wear your badge at all times during the meeting.

Registration

Grand Salon

Sunday: 3:00-8:00pm

Monday: 7:30am-4:00pm

Tuesday-Thursday: 8:00am-4:00pm

Friday: 8:00am-2:00pm

Exhibit Hall

Monday-Thursday: 9:00am-6:00pm

Friday: 9:00am-2:00pm

You must have your badge to enter the Exhibit Hall. Please do not leave personal items unattended. The DPS is not responsible for lost or stolen property.

Posters not removed by 2:00pm on Friday will be recycled.

Exhibit Hall Events

Morning Coffee Break

Monday-Friday, 10:00am-10:30am

Evening Poster Session with cash bar

Monday-Thursday, 3:30pm-6:00pm

Speaker Ready Room

Carson 3

Sunday: 3:00-5:00pm

Monday: 7:30am-4:00pm

Tuesday-Friday: 8:00am-3:00pm

Cyber Café

Grand Salon

Monday-Thursday: 8:00am-6:00pm

Friday: 8:00am-4:00pm

If there is a line for computers, please limit your time to 15 minutes.

No food or drink is permitted in the Cyber Café.

Using Your Own Laptop While At The Meeting

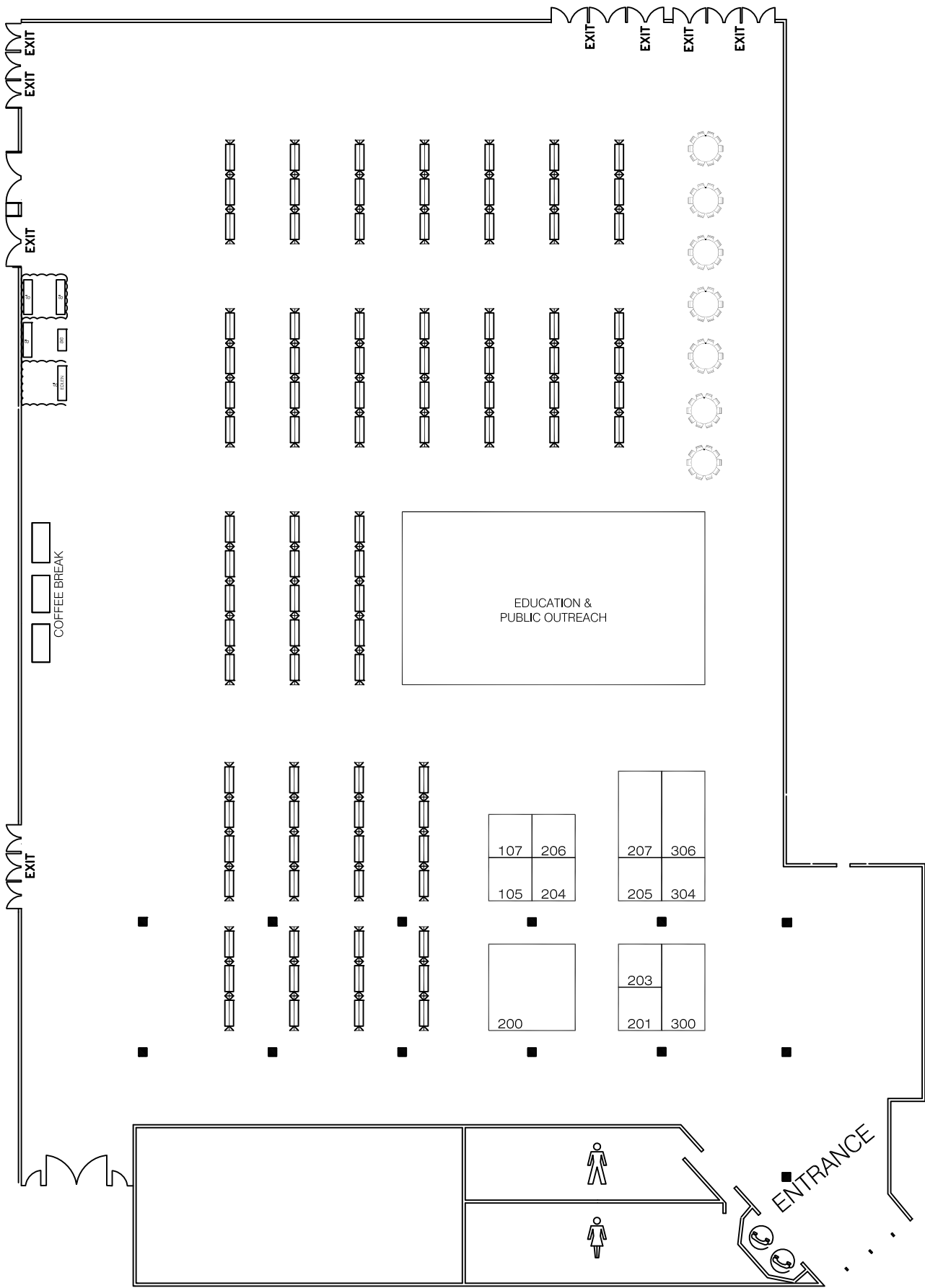
- All devices are required to be running the most up-to-date virus and spyware protection.
- No device should be running as a server for offsite clients.
- Absolutely no routers can be attached to the network without prior authorization from the DPS IT Staff.
- The network will be monitored throughout the Meeting and the DPS Staff reserves the right to disconnect any device that is causing network problems.

Wireless will be available throughout the entire meeting space although some areas may experience limited connectivity. To access the Internet through the DPS wireless network, users will need to connect to any of the DPS access points and log in with the username and password printed on the back of your badge. Please note that the wireless is not encrypted.

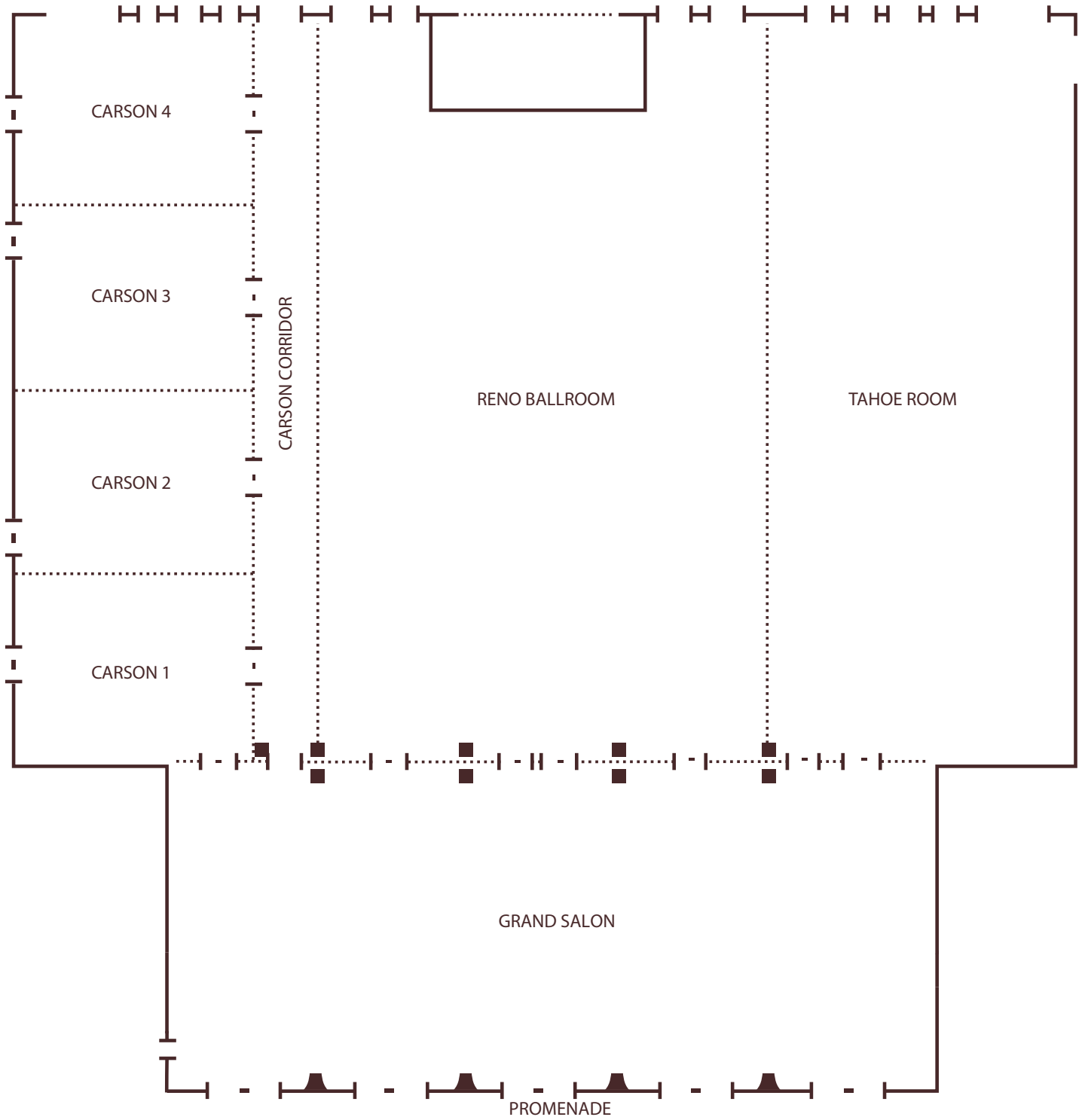
7:15 AM - 1:30 PM				
Monday, 10/15	Tuesday, 10/16	Wednesday, 10/17	Thursday, 10/18	Friday, 10/19
Session Chair Breakfast 7:15 AM - 8:00 AM, Crystal 2	Session Chair Breakfast 7:15 AM - 8:00 AM, Crystal 2	Session Chair Breakfast 7:15 AM - 8:00 AM, Crystal 2	Session Chair Breakfast 7:15 AM - 8:00 AM, Crystal 2	Session Chair Breakfast 7:15 AM - 8:00 AM, Crystal 2
Speaker Ready Room 7:30 AM - 4:00 PM, Carson 3	Speaker Ready Room 8:00 AM - 4:00 PM, Carson 3	Speaker Ready Room 8:00 AM - 4:00 PM, Carson 3	Speaker Ready Room 8:00 AM - 4:00 PM, Carson 3	Speaker Ready Room 8:00 AM - 4:00 PM, Carson 3
Registration 7:30 AM - 4:00 PM, Grand Salon	Registration 8:00 AM - 4:00 PM, Grand Salon	Registration 8:00 AM - 4:00 PM, Grand Salon	Registration 8:00 AM - 4:00 PM, Grand Salon	Registration 8:00 AM - 2:00 PM, Grand Salon
Cyber Café 8:00 AM - 6:00 PM, Grand Salon	Cyber Café 8:00 AM - 6:00 PM, Grand Salon	Cyber Café 8:00 AM - 6:00 PM, Grand Salon	Cyber Café 8:00 AM - 6:00 PM, Grand Salon	Cyber Café 8:00 AM - 4:00 PM, Grand Salon
Posters and Exhibits available 9:00 AM - 6:00 PM Exhibit Hall	Posters and Exhibits available 9:00 AM - 6:00 PM Exhibit Hall	Posters and Exhibits available 9:00 AM - 6:00 PM Exhibit Hall	Posters and Exhibits available 9:00 AM - 6:00 PM Exhibit Hall	Posters and Exhibits available 9:00 AM - 2:00 PM Exhibit Hall
Parallel Sessions, 100-102 8:30 AM - 10:00 AM	Parallel Sessions, 200-202 8:30 AM - 10:00 AM	Parallel Sessions, 300-302 8:30 AM - 10:00 AM	Parallel Sessions, 400-402 8:30 AM - 10:00 AM	Parallel Sessions, 500-503 8:30 AM - 10:00 AM
100 Extrasolar Planetary Systems: Formation, Orbital Dynamics, and Habitability Tahoe Ballroom	200 Extrasolar Planets: Kepler Outlook and Exoplanet Characterization Tahoe Ballroom	300 Titan Atmosphere 1 Tahoe Ballroom	400 Titan's Methane Cycle Tahoe Ballroom	500 Jupiter and Saturn: Seasonal Variability, Clouds and Interiors Reno Ballroom
101 Icy Satellites 1 Carson 1/2	201 Surface Processes on Titan Carson 1/2	301 Io Carson 1/2	401 Mercury and the Moon: Above, Middle, and Below Carson 1/2	501 Planetary Rings: Particle Properties Carson 1/2
102 Asteroids 1: Mission Targets and Spacecraft Observations Reno Ballroom	202 Asteroids 3: Taxonomy and Composition Reno Ballroom	302 Asteroids 4: MBCs, Comet Remnants, and Asteroids Reno Ballroom	402 Trans-Neptunian Objects 1: Dwarfs and Size Reno Ballroom	502 Trans-Neptunian Objects 3: Populations, 8:30 AM - 9:00 AM 503 Solar System Origin, Planet and Satellite Formation 1, 9:00 AM - 10:00 AM Tahoe Ballroom
Morning Coffee Break 10:00 AM - 10:30 AM, Exhibit Hall	Morning Coffee Break 10:00 AM - 10:30 AM, Exhibit Hall	Morning Coffee Break 10:00 AM - 10:30 AM, Exhibit Hall	Morning Coffee Break 10:00 AM - 10:30 AM, Exhibit Hall	Morning Coffee Break 10:00 AM - 10:30 AM, Exhibit Hall
Parallel Sessions, 103-105, 10:30 AM - 12:00 PM	Town Hall: 203 DPS Members Meeting 10:30 AM - 12:00 PM, Reno Ballroom	Parallel Sessions, 303-305 10:30 AM - 12:00 PM	Parallel Sessions, 403-406 10:30 AM - 12:00 PM	Parallel Sessions, 504-507 10:30 AM - 12:00 PM
103 Extrasolar Planets: Atmospheric Chemistry and Characterization Tahoe Ballroom		303 Titan Atmosphere 2 Tahoe Ballroom	403 The Great Saturn Storm of 2010/2011 and its Aftermath Tahoe Ballroom	504 Jovian Planets: The Ice Giants, 10:30 AM - 11:30 AM 507 Venus: Length of Day, Dissipation, and Lightning Chemistry, 11:30 AM - 12:00 PM Reno Ballroom
104 Icy Satellites 2 Carson 1/2		304 Pluto and its Entourage Reno Ballroom	404 Mars: Organics, Biomarkers, and Climate Change, 10:30 AM - 11:30 AM 406 Planetary Rings: Structure and Mass, 11:30 AM - 12:00 PM Carson 1/2	505 Solar System Origin, Planet and Satellite Formation 2 Carson 1/2
105 Asteroids 2: Asteroid Dynamics and Physical Properties Reno Ballroom		305 Asteroids 5: Near-Earth Object Potpourri Carson 1/2	405 Trans-Neptunian Objects 2: Surfaces and Binaries Reno Ballroom	506 Comets 1: Hartley 2 and Garradd Tahoe Ballroom
Lunch Break 12:00 PM - 1:30 PM	Lunch Break 12:00 PM - 1:30 PM	Lunch Break 12:00 PM - 1:30 PM	Lunch Break 12:00 PM - 1:30 PM	Lunch Break 12:00 PM - 1:30 PM
Town Hall: 106 Assessing the State of the Decadal Survey in the Light of the Current Budget Environment in Washington 12:00 PM - 1:00 PM, Carson 1/2	Workshop: Europa Mission Studies Update 12:00 PM - 1:00 PM, Tahoe Ballroom	Workshop: Women in Astronomy Discussion Hour 12:00 PM - 1:30 PM, Crystal 2		
	Workshop: Publishing Your Paper: A Guide for MSc and PhDs 12:00 PM - 1:00 PM, Carson 1/2			

1:30 PM- 9:00 PM				
Monday, 10/15	Tuesday, 10/16	Wednesday, 10/17	Thursday, 10/18	Friday, 10/19
<p>Plenary Session: 107 Welcome, 2011 Urey Prize Lecture: Orbital Dynamics of Extrasolar Planets, Large and Small, Eric B. Ford (University of Florida) 1:30 PM - 2:20 PM, Reno Ballroom</p>	<p>Parallel Sessions, 205-208 1:30 PM - 3:30 PM</p>	<p>Plenary Session: 306 2012 Sagan Medal, Eberhart Award, and Masursky Award Presentations 1:30 PM- 2:05 PM, Reno Ballroom</p>	<p>Plenary Session: 407 Planetary Aeronomy of the Outer Solar System, Darrell Strobel as the 2012 Kuiper Prize Winner, Darrell Strobel (Johns Hopkins University) 1:30 PM - 2:20 PM, Reno Ballroom</p>	<p>Parallel Sessions, 508-511 1:30 PM - 3:00 PM</p>
<p>Plenary Session: 108 Latest Results from the Kepler Mission, William J. Borucki (NASA Ames Research Center) 2:20 PM - 2:55 PM, Reno Ballroom</p>	<p>205 Jupiter: Spots, Waves, Jets and Structure, 1:30 PM - 2:30 PM 208 Extrasolar Planets: Atmospheric Circulation and Dynamics, 2:30 PM - 3:30 PM Tahoe Ballroom</p>	<p>Plenary Session: 307 Exploring the Planet Mercury: 1.5 Years of MESSENGER Orbital Observations, Sean C. Solomon (Lamont-Doherty Earth Observatory) 2:05 PM - 2:40 PM, Reno Ballroom</p>	<p>Plenary Session: 408 Cassini Science Highlights: Surprises in the Saturn System, Linda J. Spilker (Jet Propulsion Laboratory) 2:20 PM - 2:55 PM, Reno Ballroom</p>	<p>508 Venus: Latest Results from Venus Express and Venus Solar Transit Reno Ballroom</p>
<p>Plenary Session: 109 Exploring New Worlds: Dawn at Vesta, Carol Raymond (Jet Propulsion Laboratory, California Institute of Technology) 2:55 PM - 3:30 PM, Reno Ballroom</p>	<p>206 Mars Atmosphere: Exosphere to Surface Carson 1/2</p>	<p>Plenary Session: 308 Mars Science Laboratory: Mission, Landing Site, and Initial Results, John Grotzinger (Caltech) 2:40 PM - 3:15 PM, Reno Ballroom</p>	<p>Plenary Session: 409 Science Highlights/Results from GRAIL Mission, Gregory Neumann, (NASA) 2:55 PM - 3:30 PM, Reno Ballroom</p>	<p>509 Moon: Messing up the Surface, 1:30 PM - 2:30 PM 511 Planetary Rings: VIMS Observations of Saturn's Rings, 2:30 PM - 3:00 PM Carson 1/2</p>
	<p>207 Asteroids: Dawn at Vesta Reno Ballroom</p>	<p>Plenary Session: 309 InSight: NASA's Discovery Mission to Explore Terrestrial Planet Interiors, W. Bruce Banerdt (Jet Propulsion Laboratory, California Institute of Technology) 3:15 PM - 3:30 PM, Reno Ballroom</p> <p>Workshop: Meeting of the IOPW Atmospheres Section 3:30 PM - 5:00 PM, Crystal 2</p>		<p>510 Comets 2: Volatiles Tahoe Ballroom</p>
<p>Poster Sessions, 110-113 3:30 PM - 6:00 PM, Exhibit Hall</p>	<p>Poster Sessions, 209-215 3:30 PM - 6:00 PM, Exhibit Hall</p>	<p>Poster Session, 310-314 3:30 PM - 6:00 PM, Exhibit Hall</p>	<p>Poster Sessions, 410-416 3:30 PM - 6:00 PM, Exhibit Hall</p>	<p>Parallel Sessions, 512-515 3:30 PM - 5:00 PM</p>
<p>110 Asteroids: Spacecraft Missions, Radar Observations, and Spectroscopy (3:40-4:22) 111 Everything Asteroids (4:32-5:00) 112 Satellites: Irregular, Icy and Io (4:00-4:44) 113 Extrasolar Planets and Systems (4:30-5:08)</p>	<p>209 Asteroids: Dawn Results and Future Observations (3:40-3:48) 210 NEOs, Surveys, and Asteroid Dynamics (3:52-4:32) 211 Mars Satellites: Phobos and Deimos (4:38-4:44) 212 Meteoroids and Meteorites (4:54-5:10) 213 Mars: Surface and Interior (3:40-3:50) 214 Mars Atmosphere: Corona to Surface (3:54-4:36) 215 Future Missions and Instruments (4:38-5:30)</p>	<p>310 Centaurs and Trans-Neptunian Objects (3:40-4:24) 311 Moon: Surface and Interior (3:50-4:06) 312 Titan (4:00-4:40) 313 Comets 1: Hartley 2 and Garradd (4:20-4:36) 314 Comets 2 (4:38-5:30)</p>	<p>410 Mercury and Moon: Atmospheres (3:40-3:50) 411 Education, Public Outreach, and History (3:40-4:08) 412 Jovian Planets: Atmospheres and Laboratory Measurements (4:20-5:18) 413 Jovian Planets: Magnetospheres and Aurorae (4:30-4:42) 414 Planetary Rings (5:00-5:26) 415 Solar System Origin, Planet and Satellite Formation (3:50-4:18) 416 Venus (4:00-4:12)</p>	<p>512 Venus: Upper Atmosphere Dynamics and Temporal Variability, 3:30 PM - 4:00 PM 515 Education and Public Outreach, 4:00 PM - 5:00 PM Reno Ballroom</p>
<p>Dinner Break 6:00 PM - 7:30 PM</p>	<p>Dinner Break 6:00 PM - 7:30 PM</p>	<p>DPS Banquet 6:30 PM - 9:00 PM, Grand Theater at the Grand Sierra Resort and Casino</p>	<p>Dinner Break 6:00 PM - 7:30 PM</p>	<p>513 Planetary Rings: Dynamics Carson 1/2</p>
<p>Public Talk: 114 The Fascinating Quest of Asteroids: The Remnants of Planetary Formation, Patrick Michel (Lagrange Laboratory, University of Nice-Sophia Antipolis, CNRS, Côte d'Azur Observatory) 7:30 PM - 9:00 PM, Reno Ballroom</p>	<p>Town Hall: 216 Agency Night 7:30 PM - 9:00 PM, Reno Ballroom</p>		<p>Workshop: Planets on Screen 7:30 PM - 9:00 PM, Carson 1/2</p>	<p>514 Comets 3: Comets, Including Sungrazers and WISE/NEOWISE Results Tahoe Ballroom</p>

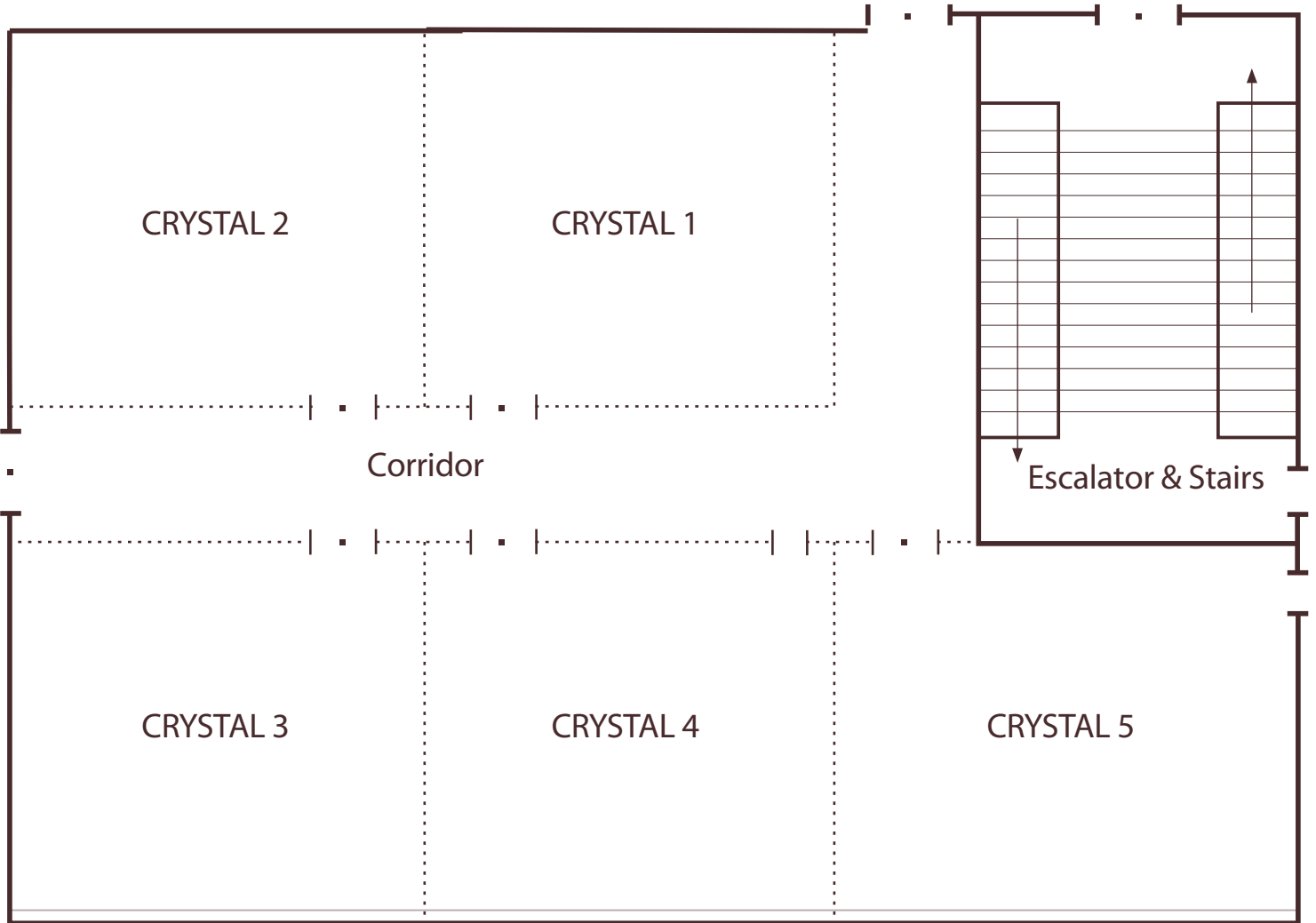
DPS 2012
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 Grand Sierra Resort
 Summit Pavilion
 Reno, Nevada



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CRYSTAL BALLROOM



MEZZANINE MEETING ROOMS

