

Scientific Program

MONDAY, 20th JULY 2015

- 09:00–10:30 **Ground breaking ceremony of the Planetarium and Conference Opening**
- 10:30–11:00 Photograph with participants and Dignitaries; planting of the memorial tree
- 11:15–11:30 **Coffee Break**
- 11:30–12:30 **The Solar System's Planetesimals**
Luu, Jane
- 12:30–14:00 **Lunch at ICISE**

Planetary Materials and Evolutionary Clues from Small Bodies (Chair J. Lunine)

- 14:15–14:45 **What were the Sources of Earth's Volatiles?**
Alexander, Conel
- 14:45–15:15 **Phobos and Deimos: Two Enigmatic Small Bodies at the Crossroads of Planetary System, Planet, and Satellite Formation and Evolution**
Lee, Pascal
- 15:15–15:35 **The Water Regime of Ceres**
Li, Jian Yang
- 15:35–16:00 **Coffee Break**

Terrestrial-like Worlds in the Solar System (Chair J. Lunine)

- 16:00–16:30 **Titus-Bode Laws in Planetary Systems - A Synergistic View**
Martin, Eduardo
- 16:30–17:00 **Aqueous Environments During Mars' First Billion Years**
Ehlmann, Bethany
- 18:45 **Dinner offered by Binh Dinh Provincial People's Committee at ICISE**

TUESDAY, 21st JULY 2015

Terrestrial-like Worlds in the Solar System cont. (Chair S. Raymond)

- 08:30–08:50 **Photochemical Escape of Oxygen and Carbon from Early Mars**
Zhao, Jinjin
- 08:50–09:10 **Deciphering the History and Habitability of Gale Crater with Orbital and Rover Datasets**
Fraeman, Abigail

Solar System Icy Worlds (Chair S. Raymond)

- 09:10–09:40 **Tidal Heating in the Oceans of Icy Satellites**
Matsuyama, Isamu

- 09:40–10:10 **Satellite Systems from Cassini Data**
Thomas, Peter
- 10:10–10:40 **Coffee Break**
- 10:40–11:10 **Titan: Exploring the Limits of Geomorphology**
Birch, Samuel
- 11:10–11:40 **Observing Dynamic Processes in Titan’s Surface Liquids**
Hofgartner, Jason
- 11:40–12:00 **Energy and Entropy Flow in Planets**
Laneuville, Matthieu
- 12:00–12:30 **New Horizons Images of Pluto and Charon**

12:30–14:10 **Lunch at ICISE**

Distribution and Habitability of Terrestrial-like Planets (Chair J. Kasting)

- 14:10–14:40 **Dynamics of Planet Formation across the Galaxy**
Raymond, Sean
- 14:40–15:10 **The Occurrence Rate of Potentially Habitable Planets Orbiting M Dwarfs**
Dressing, Courtney
- 15:10–15:40 **Coffee Break**
- 15:40–16:10 **Frequency of Habitability**
Traub, Wesley
- 16:10–16:40 **Habitable Zones and the Occurrence of Potential Habitable Planets**
Kasting, James
- 19:00 **Dinner at the Hotel**

WEDNESDAY, 22nd JULY 2015

Biosignatures (Chair Y. Miguel)

- 09:00–09:30 **High Abiotic O₂ Levels and ‘False Positives’ for Life**
Kasting, James
- 09:30–09:50 **Using the Rossiter-McLaughlin Effect to Observe the Transmission Spectrum of the Earth's Atmosphere**
Yan, Fei
- 09:50–10:10 **New Developments in Understanding Biosignature Chemistry of Earth-like Atmospheres**
Grenfell, Lee

Astromaterials (Chair Y. Miguel)

- 10:10–10:30 **Astromaterials collection**
Zeigler, Ryan

10:30–11:00 **Coffee Break**

Exoplanets and New Telescopes (Chair Y. Miguel)

11:00–11:30 **What to Expect from Exoplanet Surveys in the JWST Era**
Bean, Jacob

11:30–12:00 **Some Lessons from Kepler**
Lithwick, Yoram

12:00–12:30 **Characterizing Transiting Exoplanets with the James Webb Space Telescope**
Batalha, Natasha

12:30–18:00 **Lunch at the Hotel and Excursion**

THURSDAY, 23rd JULY 2015

Gas Giant Composition (N. Batalha)

08:30–09:00 **Atmospheric Circulation in the Solar System and Beyond**
Lewis, Nikole

09:00–09:30 **Chemistry and Physics of Clouds in Atmospheres**
Helling, Christiane

09:30–10:00 **Modeling and Observing the Effects of Clouds and Hazes in Exoplanets**
Morley, Caroline

10:00–10:30 **Atmospheric Bulk Composition of Exoplanets**
Kempton, Eliza

10:30–11:00 **Coffee Break**

11:00–11:30 **Equilibrium and Disequilibrium Chemistry in Evolved Exoplanet
Atmospheres**
Hu, Renyu

11:30–12:00 **Spectral Features of Hot Mini-Neptunes and EGP Orbiting Different Stars**
Miguel, Yamila

12:00–12:20 **New Insights on Jupiter's Deep Water Abundance**
Wang, Dong

12:20–13:50 **Lunch at ICISE**

13:50–14:10 **Ion-Neutral Exoplanet Chemistry at High Temperatures and Pressures**
Rimmer, Paul

Giant Planet Observations (Chair N. Lewis)

14:10–14:40 **Understanding Giant Planets from Exoplanet Spectra**
Fortney, Jonathan

- 14:40–15:10 **Characterizing Transiting Planet System Parameters from Ground and Space**
Deeg, Hans
- 15:10–15:40 **Coffee Break**
- 15:40–16:00 **Multiband Spitzer Phase of Three Highly-irradiated Hot Jupiters**
Wong, Ian
- 16:00–16:20 **Transiting Exoplanets' Impact Parameters: Long versus Short Cadence Photometry**
Somboonpanyakul, Taweewats
- 16:20–16:40 **Photometric Observation and Analysis of Hot Uranus Exoplanet GJ3470b by Transit Method**
Pichadee, Sawatkamol
- 19:00 **Dinner at the Hotel**

FRIDAY, 24th JULY 2015

Planetary System formation (Chair B. Ehlmann)

- 09:00– 09:30 **Is Our Solar System an Outlier?**
Petigura, Erik
- 09:30–10:00 **Gravity and Planet Formation**
Klahr, Hubert
- 10:00–10:20 **Orbital Dynamics of Giant Planet Moons in Planet-planet Scattering**
Hong, Yu-Cian
- 10:20–10:40 **Regeneration of Star and Formation of Solar System - Potter Man's Concept**
Kant, Shree
- 10:40–11:10 **Coffee Break**
- 11:00–11:20 **The Importance of the Apollo Sample Suite to our Understanding of the Solar System**
Zeigler, Ryan

Stars (Chair B. Ehlmann)

- 11:30–11:50 **3D Wave Excitation and Propagation due to Planet-disk Interactions in a Protoplanetary Disk**
Gu, Pin-Gao
- 11:50–13:20 **Lunch at ICISE**
- 13:20–13:50 **Why are there Planetary Scientists and Exoplanet Astronomers...or, Can't we all just Get Along?**
Lunine, Jonathan
- 14:50 **Final remarks and closing of the meeting**
- 19:00 **Dinner at the Hotel**