MONDAY, April 28, 2008

Session 01 8:20 AM – 10:25 AM	Stars and Galaxies Luke Dones, Chair
8:20 AM – 9:05 AM	Telling Tales with Tidal Tails – Kathryn V. Johnston, Invited
9:05 AM – 9:25 AM	Stellar Dynamical Evidence against a Cold Disk Origin for Stars in the Galactic Center – Jorge Cuadra
9:25 AM – 9:45 AM	Redshift Asymmetry as an Indication of Dark Energy around Groups of Galaxies – Mauri J. Valtonen
9:45 AM – 10:05 AM	Reconstructing the Mass Profile of the Milky Way – Stacy S. McGaugh
10:05 AM – 10:25 AM	Does M42 Presage the Dual Proposal? – David F. Bartlett
10:25 AM – 10:45 AM	Morning Break
Session 02 10:45 AM – 12:30 PM	The Yarkovsky and YORP Effects William I. Newman, Chair
10:45 AM – 11:30 AM	Analytic Theory of the YORP Effect for Near-Spherical Objects – David Nesvorny, Invited
11:30 AM – 11:50 AM	YORP-Driven Expansion of Binary Asteroid Systems – Eugene G. Fahnestock
11:50 AM – 12:10 PM	The Yarkovsky Effect in the Flora and Baptistina Asteroid Families – Lawrence A. Molnar
12:10 PM – 12:30 PM	Searching for Yarkovsky Among the Near-Earth Asteroids – Steven R. Chesley
12:30 PM – 1:45 PM	Lunch
Session 03 1:45 PM – 3:30 PM	Planet-Disc Dynamics John E. Chambers, Chair
1:45 PM – 2:30 PM	The Co-orbital Corotation Torque and Its Effect on Planet Migration – Frederic Masset, Invited

Session 05 7:30 PM – 8:30 PM	Public Lecture. At Saturn: Tripping the Flight Fantastic Carolyn C. Porco, Invited Glenn Miller Ballroom, University of Colorado
5:15 PM-6:45 PM	Business Meeting
4:55 PM – 5:15 PM	Evolution of the Inner Oort Cloud in the Current Galactic Environment – Ramon Brasser
4:35 PM – 4:55 PM	Assessing the Threat of Oort Cloud Comet Showers – Nathan A. Kaib
3:50 PM – 4:35 PM	Resonant Dynamics of Kuiper Belt Objects and Induced Biases in Surveys – Brett Gladman, Invited
Session 04 3:50 PM – 5:15 PM	Kuiper and Oort Alan W. Harris, Chair
3:30 PM – 3:50 PM	Afternoon Break
3:10 PM – 3:30 PM	Planet Migration in Planetesimal Disks: Effects of a Gas Disk – Chris C. Capobianco
2:50 PM – 3:10 PM	Planetary Migration in a Self-Gravitating Gaseous Disk – Clement Baruteau
2:30 PM – 2:50 PM	Evolution of Giant Planet Orbits in a Turbulent Circumstellar Disk – Althea Moorhead

TUESDAY, April 29, 2008

Session 06 8:20 AM – 10:40 AM	Extrasolar Planets Harold F. Levison, Chair
8:20 AM – 8:40 AM	Measuring Interior Properties of Very Hot Jupiters Through Transit Timing – Darin Ragozzine
8:40 AM – 9:00 AM	Searching for Planets using Particle Swarm Optimization – John E. Chambers
9:00 AM – 9:20 AM	Survival and Detectability of Exoplanets Beyond 100 AU – Dimitri Veras
9:20 AM – 9:40 AM	Turbulence in Extrasolar Planetary Systems Implies that Mean Motion Resonances are Rare – Fred C. Adams
9:40 AM – 10:00 AM	The OGLE-2006-BLG-109L Planetary System: Prospects for a Habitable Planet – Renu Malhotra
10:00 AM – 10:20 AM	On the Origins of Eccentric Close-in Planets – Soko Matsumura
10:20 AM – 10:40 AM	Tidal Dynamics of Transiting Extrasolar Planetary Systems – Daniel C. Fabrycky
10:40 AM – 11:00 AM	Morning Break
Session 07 11:00 AM – 12:25 PM	Black Holes Stephen C. Unwin, Chair
11:00 AM – 11:45 AM	Black Holes and the Evolution of Galaxies – Douglas O. Richstone, Invited
11:45 AM – 12:05 PM	Dynamical Friction of Black Hole Pairs at Gas-Rich Galactic Nuclei – Hyosun Kim
12:05 PM – 12:25 PM	Fingerprints of Intermediate Mass Black Holes in Globular Clusters: Quenching of Mass Segregation – Michele Trenti
12:25 PM – 1:40 PM	Lunch

Session 08 1:40 PM – 3:00 PM	The Solar System: Stable or unstable? Chaotic or non-chaotic? Joseph M. Hahn, Chair
1:40 PM – 2:00 PM	An Investigation of the Stability of Systems of Earth-Mass Bodies Orbiting a Sun- Like Star – Andrew W. Smith
2:00 PM – 2:20 PM	On the Dynamical Stability of the Solar System – Konstantin Y. Batygin
2:20 PM – 2:40 PM	High Degree of Freedom Dynamics, Weak Chaos, and the Outer Solar System – William I. Newman
2:40 PM – 3:00 PM	Solar System: Surfing the Edge of Chaos Part II — Wayne B. Hayes
3:00 PM – 3:20 PM	Afternoon Break
Session 09 3:20 PM – 5:20 PM	Celestial Mechanics Matija Cuk, Chair
3:20 PM – 3:40 PM	Relative Equilibria in the Sphere-Restricted Full 2-Body Problem – Daniel J. Scheeres
3:40 PM – 4:00 PM	Tidal Torques. Critical Review of Some Techniques – Michael Efroimsky
4:00 PM – 4:20 PM	Relativistic Contribution to Eccentricity Bias – Antonio R. Mondragon
4:20 PM – 4:40 PM	Second-order Corrections to Time Delay and Deflection of Light Passing near a Massive Object – Neil Ashby
4:40 PM – 5:00 PM	Dynamics of Planetary Systems in Counter-revolving Configurations – Julie Gayon
5:00 PM – 5:20 PM	An Asteroid Breakup 160 My Ago as the Probable Source of the K-T Impactor – William Bottke
6:45 PM – 9:45 PM	Banquet

$WEDNESDAY, April\ 30,\ 2008$

Session 10 8:20 AM – 9:15 AM	Brouwer Award Presentation and Lecture William R. Ward, Chair
8:25 AM – 9:15 AM	Brouwer Lecture: Very Small-Scale Structure in the Cold Dark Matter Distribution –Simon White, Invited
Session 11 9:15 AM – 10:20 AM	Astrometry Alice Monet, Chair
9:15 AM – 10:00AM	Astrometry with the Hubble Space Telescope – G. Fritz Benedict, Invited
10:00 AM – 10:20 AM	Dynamical Astronomy with SIM – Stephen C. Unwin
10:20 AM – 10:40 AM	Morning Break
Session 12 10:40 AM – 12:20 PM	Capture and Impact Wayne B. Hayes, Chair
10:40 AM – 11:00 AM	Formation of The Earth Impactor and Moon – Edward Belbruno
11:00 AM – 11:20 AM	On Non-Symmetric Satellite Capture in the 3D Elliptic Restricted Three-Body Problem – Marc A. Murison
11:20 AM – 11:40 AM	The Stability and Dynamics of Planets in Tight Binary Systems – Lamya A. Saleh
11:40 AM – 12:00 PM	Chaotic Capture of Planetesimals into Regular Regions of the Solar System. I: The Kuiper Belt — Alessandro Morbidelli
12:00 PM – 12:20 PM	Chaotic Capture of Planetesimals into Regular Regions of the Solar System. II: Embedding Comets in the Asteroid Belt – Harold F. Levison
12:20 PM – 1:35 PM	Lunch
Session 13 1:35 PM – 2:35 PM	Satellites Nader Haghighipour, Chair
1:35 PM – 1:55 PM	The 3-dimensional Rotation of Titan, and the Possibility of a Resonant Wobble – Benoit Noyelles

1:55 PM – 2:15 PM	Orbital Resonances during Tidal Heating of Icy Satellites – Ke Zhang
2:15 PM – 2:35 PM	The Rotation of Janus and Epimetheus – Matthew S. Tiscareno
2:35 PM – 2:55 PM	Afternoon Break
Session 14 2:55 PM – 4:35 PM	Asteroids and Main-Belt Comets Joseph N. Spitale, Chair
2:55 PM – 3:15 PM	Regulation of Primary Spin Rate of Asynchronous Binary Asteroids by "Tidal Saltation" – Alan W. Harris
3:15 PM – 3:35 PM	Long-Lived Dynamical Niches in the Inner Solar System – Matija Cuk
3:35 PM – 3:55 PM	Sweeping Resonances in the Main Asteroid Belt and the Late Heavy Bombardment – David A. Minton
3:55 PM – 4:15 PM	Asteroid Clusters in Major Mean Motion Resonances with Jupiter – Miroslav Broz
4:15 PM – 4:35 PM	Dynamics of Main Belt Comets and its Implications to Their Origins, Activation, and Possible Contribution to Earth's Water – Nader Haghighipour
Session 15 4:45 PM – 6:45 PM	Poster Session Please refer to abstracts for the list of poster presentations SwRI, 1050 Walnut St., 4th-floor conference room

THURSDAY, May 1, 2008

Session 16 8:20 AM – 10:20 AM	Rings – I Marc A. Murison, Chair
8:20 AM – 8:40 AM	Physics of Jupiter's Gossamer Rings – Douglas P. Hamilton
8:40 AM – 9:00 AM	The Outer Dust Rings of Uranus in the Hubble Space Telescope – Mark R. Showalter
9:00 AM – 9:20 AM	Dynamics of Particles in E Rings of Saturn Near Enceladus' Orbit – Manish Agarwal
9:20 AM – 9:40 AM	What is New in Saturn's F Ring Azimuthal Channels? – Carlos E. Chavez
9:40 AM – 10:00 AM	Searching for Sub-Centimeter Particles in Saturn's Main Rings – Rebecca A. Harbison
10:00 AM – 10:20 AM	Cassini Observations of Lindblad Resonances in Low Optical Depth Rings – Matthew M. Hedman
10:20 AM – 10:40 AM	Morning Break
Session 17 10:40 AM – 12:00 PM	Planet Formation Philip D. Nicholson, Chair
10:40 AM – 11:00 AM	Accretion of Gas onto Circumstellar Disks During Planet Formation – Henry B. Throop
11:00 AM – 11:20 AM	Planetesimals to Protoplanets: Effect of Dust on Terrestrial Planet Formation – Zoe Leinhardt
11:20 AM – 11:40 AM	Building the Terrestrial Planets: Constraining Planetary Accretion in the inner Solar System – Sean N. Raymond
11:40 AM – 12:00 PM	The Varieties of Planetary Experience – Edward Thommes
Session 18	Din a H
12:00 PM – 2:35 PM	Rings – II Carolyn C. Porco, Chair

12:20 PM – 12:40 PM	Edge-Waves in Ring Gaps and the Determination of Masses of Embedded Satellites – John W. Weiss
12:40 PM – 1:00 PM	Kinematics of the Outer Edges of Saturn's A and B Rings – Joseph N. Spitale
1:00 PM – 1:15 PM	Afternoon Break
1:15 PM – 1:35 PM	The Physics of the Sharp Edges of Broad Planetary Rings – Joseph M. Hahn
1:35 PM – 1:55 PM	Density Waves in Saturn's Rings: Non-linear Dispersion and Moon Libration Effects – Miodrag Sremcevic
1:55 PM – 2:15 PM	Temporally Modulated Density Waves in Saturn's Rings – Glen R. Stewart
2:15 PM – 2:35 PM	Formation of Saturn's Rings by Tidal Disruption of a Centaur – Luke Dones