

Informal dinner arrangements

7:30 PM Public lecture Manning Clark Theatre 1, ANU campus
Exploring Mars and Beyond L. Leshin and J. I. Lunine

Tuesday

17 Feb. 2004

FROM DISKS TO PLANETS

Session Chair: Frank Shu

T1.1	Keynote 9:00	Alan Boss	The Formation of Giant Planets
T1.2	9:30	Rosemary Mardling	Gravitational Instability and Planet Formation: From Planetesimal Collisions to Free Floater
T1.3	9:50	Gareth Kennedy	The Influence of a Binary Companion on Planetary Formation
T1.4	10:10	Charles Morgan	Formation of the "Classical" Kuiper Belt
	10:30	TEA	
T1.5	Keynote 10:50	Doug Lin	The Ubiquity of Planets and the Diversity of Planetary Systems
T1.6	11:20	Charley Lineweaver	Galactic prerequisites for the formation of other Earths
T1.7	11:40	Ross Taylor	Earth like Planets- Rare or common in the Galaxy
	11:55	Discussion	
	12:30	LUNCH	

DETECTING EXTRASOLAR PLANETS

Session Chair: Ray Jayawardhana

T2.1	1:30	Penny Sackett	Direct Detection: A primer for Earth Scientists
T2.2	Keynote 1:50	Adam Burrows	Direct Detection of Extrasolar Giant Planets
T2.3	2:20	Ulyana Dyudina	Disk-averaged phase light curves of extrasolar Jupiter and Saturn.
T2.4	2:40	Daniel Bayliss	Modeling of Reflected Light from Extra Solar Planets with Eccentric Orbits
T2.5	2:55	Peter Wood	Could long secondary periods in red giant light curves be due to close companions?
	3:15	TEA	
T2.6	3:25	Brad Carter	The Anglo-Australian Planet Search
T2.7	3:45	Discussion	
	4:10	Introduction to Posters	
P1		A-Ran Lyo	Disk fraction in the ~10Myr-old pre-main sequence Eta Chamaeleontis cluster
P2		Marco Maldoni	Dust and Water Ice in Highly Evolved Oxygen-rich Stars
P3		Jeremy Bailey	Direct Detection of Extrasolar Planets by Polarimetry
P4		Andres Cramona	Observational studies of gas in circumstellar disks around YSO
P5		Therese Schneck	Protoplanetary Disks
P6		Sarah Maddison	Searching for Planets in Dusty Disk Debris
P7		Robert Smith	Ice in the Protoplanetary Disk

P8	Tamara Rogers	2D Semiconvection
P9	Jeremy Bailey	IR Observations of Mars during the August 2003 opposition
P10	Louis Moresi	Growth of the hemispheric dichotomy and the cessation of plate tectonics on Mars
P11	Miguel de Val Borro	Title only: Instabilities in protoplanetary disks
P12	T.G. Sharp	Title only: Late Impacts on the L-chondrite parent body: Constraints from Shock-Veins

7 for 7:30 Conference Dinner at Vivaldi's on the ANU campus

Wednesday 18 Feb. PRECISION TIMING AND PROCESSES: EMERGING DETAILS OF THE EARLY SOLAR SYSTEM

Session Chair: Adam Burrows

W1.1	9AM	Trevor Ireland	Solidification of the Solar Nebula: A primer for astronomers
W1.2	9:20	Martin Asplund	The solar chemical composition
W1.3	Keynote 9:40	Kevin McKeegan	Short-lived radioactivity in the solar nebula: interstellar inheritance and local irradiation
W1.4	10:10	David Wark	The Sequence of High Temperature Events in the Early Solar Nebula
	10:30	TEA	
W1.5	10:50	Yuri Amelin	Duration of the chondrule formation interval: a Pb isotope study.
W1.6	11:10	Sarah Maddison	Predicting Dust Distribution in Protoplanetary Disks
W1.7	11:30	Kurt Liffman	Particle Size Sorting in the Solar Nebula
W1.8	11:50	Marc Norman	Timescales of planetary differentiation in the inner solar system: constraints from the ancient lunar crust
	12:10	Discussion	
	12:30	LUNCH	

MAKING PLANETS HABITABLE

Session Chair: Alan Boss

W2.1	1:30	Laurie Leshin	Making Waterworlds: The Importance of ^{26}Al
W2.2	1:50	Masahiko Honda	The origin and evolution of planetary atmospheres - implications from noble gases
W2.3	2:10	Jeremy Bailey	Evolution of Terrestrial Planet Atmospheres
W2.4	2:30	Franklin Mills	The Photochemical stability of the Venus atmosphere
W2.5	Keynote 2:50	Jonathon Lunine	Making worlds habitable --the delivery of water and organics
W2.6	Keynote 3:10	Mark Harrison	The Mission to Really Early Earth: When Did Conditions Appropriate for Life Emerge?
	3:30	Discussion	
	3:50	TEA	
	4:10	Bus Trip to Mt. Stromlo Observatory	
		Tour and reception at Stromlo	

7:45 PM

**Return to ANU with optional kangaroo viewing stop.
Buffet dinner at Katerina's (ANU campus) with no-host bar**

Thursday 19 Feb. 2004

**DYNAMICS WITHIN INDIVIDUAL PLANETS: TIMESCALES, PROCESSES and
CREATING DIVERSE ENVIRONMENTS**

Session Chair: Mark Harrison

Th1.1	9AM	Andrew Prentice	Origin and Bulk Chemical Composition of our Inner Planets and Jupiter
Th1.2	9:15	Francies Albarede	Another look at the terrestrial magma ocean and Early Earth's geodynamics
Th1.3	9:35	Geoff Davies	Stratifying the Earth
Th1.4	9:55	Craig O'Neil	The formation of crustal dichotomies on the terrestrial planets
Th1.5	10:15	Louis Moresi	A curious coincidence between theoretically optimal insulation and the areal extent of continents on Earth.
	10:35	TEA	
Th1.6	10:55	Justin Freeman	Stagnant Lid Convection with a Water Ice Rheology
Th1.7	11:10	Dave Stegman	Model of mantle convection on Mars
Th1.8	11:30	William Zealey	The Development of Flood Channels on the Martian Surface
	11:50	Discussion	
	12:20	LUNCH	

Session Continued..

Session Chair: Trevor Ireland

Th2.1	1:20	Victoria Bennett	Comparative Timescales of Planetary Differentiation: Observations and Prospects
Th2.2	1:35	Allen Nutman	The World's Oldest Rocks: Extracting Useful Information on Early Terrestrial Fractionation and Evolution from an Awful Geological Mess
Th2.3	1:55	Andrew Glikson	Early terrestrial maria-like impact basins: mineralogy and chemistry of early Precambrian asteroid impact ejecta, may imply existence of large oceanic impact basins on the early Precambrian Earth
Th2.4	2:15	Adrian Brown	Evidence for the earliest Hydrothermal System on Earth in the East Pilbara Granite-Greenstone Terrane
	2:30	Discussion	
	2:40	Summary and Discussion	
		What I heard the astronomers say?	(Kevin McKeegan)
		What I heard the planetologists say?	(Charlie Lineweaver)
	3:20	TEA	
	3:40	Break-out groups	
			Each group to summarize key questions observations/issues emerging from conference and identify future directions.
			Reconvene and close of meeting.

