

## Australian Mars Exploration Conference 2011 – Program

(May be subject to further revision without notice, check <http://www.marssociety.org.au> for latest information)

Horizon: The Planetarium.		FRIDAY 22 <sup>nd</sup> JULY	
Session	Time	Event	Speakers
Public Lecture,	6.00pm	Life on Mars and Beyond	Chris McKay Carol Stoker Vadim Gushin

Bookings are essential for this event. There are no tickets available at the door and no free passes. Tickets are \$5.00 and can be obtained from TryBooking at <http://www.scitech.org.au/featured/life-on-mars-and-beyond-22-july.html>

Woolnough Lecture Theatre, University of WA		SATURDAY 23 <sup>rd</sup> JULY	
Session	Time	Event	Speaker
Registration	8.00		
	9.00	Welcome & Opening Remarks	Aleisha Woodward, US Consul General, Perth
	9.15	<b>Keynote Address:</b> MARS-500 Project: 520-day Isolation and Simulated Landing at the Surface of Mars	Vadim Gushin, Institute of Biomedical Problems, Moscow, Russia
	10:15	From MARS 500 to MARS-OZ (via Utah)	Jon Clarke, Mars Society Australia
Morning Tea	10:45		
	11:30	Education and Outreach Using the NorCal Mars Society (US) Rovers	Lucinda Land, Education & Outreach Team, NASA Ames Research Centre California, USA
	12.00	A Hexapodal Robot for Maintenance Operations at a Future Mars Base	Graham Mann, School of Information Technology, Murdoch University, Western Australia
Lunch	12:30		
	1.30	<b>Keynote Address:</b> Mars Analog Research Activities at the Mars Desert Research Station: A Simulated Mars Base in Utah USA	Carol Stoker, NASA Ames Research Centre, California, USA
	2:00	Mars Society Australia Projects and Proposals	David Willson, Mars Society Australia
	2:30	The Australian Space Science Program	Michele Clement, Innovation and Space Branch, DIISR, Australian Government
Afternoon Tea	3:00		
	3.30	Testing the NDX-1 space suit in North Dakota, Antarctica and the Pilbara.	John Rask, NASA Ames Research Centre, California, USA
	4.00	NASA Spaceward Bound Mojave 2011: Education Report	Paula Mills, Prince Alfred College, Adelaide, South Australia
	4.30	NASA Spaceward Bound Australia: Pilbara to Projects for Science Classrooms	Mark Gargano, Science Education Enrichment Project, Curtin University of Technology, Western Australia

Woolnough Lecture Theatre, University of WA		SUNDAY 24 <sup>th</sup> JULY	
Session	Time	Event	Speaker
Registration	8.00		
	9.00	Welcome & Opening Remarks	David Cooper, MSA President
	9.10	<b>Keynote Address:</b> The Search for Life in the Solar System	Chris McKay NASA Ames Research Centre, California, USA
	10.10	New Biomarker Results from the 2.7 Ga Tumbiana Formation, Pilbara Region: application to Martian Biosignatures	Simon George, Dept. of Earth and Planetary Sciences, Macquarie University, New South Wales, Australia
	10.40	Mars Analog Science: Where do We Go from Here?	Shannon Rupert, Dept. of Biology, University of New Mexico, USA
Morning Tea	11:10		
	11:45	Reflections on Current Mars Mission Architectures	Larry Lemke NASA Ames Research Centre, California, USA
Lunch	12.30		
	1.30	<b>Keynote Address:</b> A Status Report On Australian Planetary Analogues and Astrobiological Sites in their Global Context	Jon Clarke, Mars Society Australia
	2.30	Clay Cycle and Habitability Potential in the Ubehebe Volcanic Field (Death Valley, California): A High-Fidelity Analog Site	Rosabla Bonnacorsi, NASA Ames Research Centre, California, USA
Afternoon Tea	3.00		
	3.30	The Range of Asteroid/Meteoroid and Comet Impact Speeds and Probabilities onto Mars as a Function of Heliocentric Distance	Harry Steel, Wesley College
	4.00	Authentic Astronomy Research and Practical Astrobiology: Does it Make a Difference to Students' Learning and Motivation and Teachers' Confidence and Classroom Practice?	Mark Gargano, Science Education Enrichment Project, Curtin University of Technology, Western Australia

*Notes:*

1. *At morning tea on Saturday, be sure to enjoy the school **Mars Habitat Competition**, which will display posters, dioramas and models representing student's concept of a future Mars base. Some students, teachers and parents will attend at that time. Sponsors: Gravity Discovery Centre, Gingin Observatory and Scitech.*
2. *Between 3 and 4pm Saturday, **Mission to Mars**. Mark Gargano (Curtin University), Jenny Gull (UWA Spice) and Naomi Mathers (VSSEC) will make a live link to the Victorian Space Science Education Center and the UWA Spice Center for Learning Technologies. Remote teleoperation of a robot explorer in a simulated Mars environment will be demonstrated.*
3. *Proceedings of the conference will be distributed after the conference. Speakers may submit extended abstracts of 300-400 words or full papers of 7-10 pages for publication until August 23, 2011 to the editor, g.mann@murdoch.edu.au All documents appearing in AMEC proceedings must be peer reviewed, and*

*thus may be rejected, returned for modifications, or accepted according to the reviewer's comments.  
Presenting at the conference does not guarantee publication.*