

# AMEC V PROGRAM: ROVING THE RED PLANET

Session	Time	Topic	Speaker
<b>FRIDAY</b>			
<b>MSA AGM</b>	17:00-18:30		
<b>Icebreaker</b>	18:30-20:00		Dave Cooper
<b>Public lecture</b>	<b>20:00-21:30</b>	The Past Present and Future of Mars exploration	Marion Anderson (Monash University)
<b>SATURDAY</b>			
<b>Registration</b>	8:00-8:30		
<b>Session 1</b>	<b>8:30-10:00</b>	<b>Technology for Mars 1</b>	
	8:30-9:00	Design and testing of the first helicon double layer thruster prototype	Dr. Christine Charles (RSPS, ANU)
	9:00-9:30	Mars roving: making tracks, leaving footprints, feathering about, or dragging your snake?	Dr. Duncan Steel (Ball Aerospace Solutions, Canberra)
	9:30-10:00	Tracking the mars rovers	Glen Nagle (Tidbinbilla tracking station)
	10:00-10:30	Future NASA missions to mars	Neal Newman (NASA office, Canberra)
<b>Morning tea</b>	10:30-11:00		
<b>Session 2</b>	<b>11:00-13:00</b>	<b>Human factors</b>	
	11:00-11:30	Group dynamics in isolated environments	Phill Krins (ANU School of Psychology)
	11:30-12:00	The Mona Lisa – Leonardo project: A comparison of homogeneous male and female teams in a Mars simulation	Natalie Cutler (BAe Systems, Melbourne)
	12:00-12:30	Conflict, cooperation and group decision-making on mars	Rachael Eggins (ANU School of Psychology)
<b>Lunch</b>	12:30-13:30		
<b>Session 3</b>	<b>13:30-15:30</b>	<b>Analogue research</b>	
	13:30-14:00	Analogue Space Suit Research – Recent Development and Testing of ‘MarsSkin’	Natalie Cutler (BAe Systems, Melbourne)
	14:00-14:30	Mars-oz: designing for Mars	Dave Willson (SEMF Ltd. Hobart)
	14:30-15:00	Flashline Mars Arctic Research Station 2004 season report	Jason Held (Dept. Mechatronics, University of Sydney)
	15:00-15:30	A multi-goal mars analogue expedition (expedition two) to the Arkaroola region, Australia	Dr. Jon Clarke (Australian Centre for Astrobiology)
<b>Afternoon tea</b>	15:30-16:00		
<b>Session 4</b>	<b>16:00-18:00</b>	<b>Technology for Mars 2</b>	
	16:00-16:20	The challenge of the Martian surface environment: A material engineer’s perspective	Michael West (Dept. Mechatronics, University of Sydney)
	16:20-16:40	A network centric approach to robotic operations on mars	Jason Held (Dept. Mechatronics, University of Sydney)
	16:40-17:00	Stepping stones to mars: reconsidering human exploration of Phobos	Michael West (Dept. Mechatronics, University of Sydney)
	17:00-17:30	Mars exploration mobility within safety constraints	Dr. Graham Mann (Murdoch University, Perth)
<b>Free Time</b>	17:30-19:00		
<b>Dinner</b>	<b>19:00-22:00</b>		Phill Krins

SUNDAY			
Session	Time	Topic	Speaker
Registration	8:00-8:30		
Session 5	8:30-10:30	Planetary science and astrobiology	
	8:30-9:00	Mars – a remarkably earth-like planet	Dr. Colin Pain
	9:00-9:30	Bugs or bumps and the search for biosignatures AND Mars rock or Martian? the biomorph problem	Dr. Sue Welch & Dr. Andy Christy (Dept. Earth and Marine Science, ANU)
	9:30-10:00	Mars in the context of the solar system	Prof. Ross Taylor (Dept. Earth and Marine Science, ANU)
	10:00-10:30	We have not detected life on Mars...or have we?	Dr. Charley Lineweaver (PSI, ANU)
Morning tea	10:30-11:00		
Session 6	11:00-	Education and Outreach	
	11:00-11:20	Walking on Mars, The Victorian space science education centre	Prof. Lachlan Thompson (RMIT, Melbourne)
	11:20-11:40	Centre for Planetary and Space Studies: building a research and education facility in a private secondary school environment.	Dave Cooper (MSA, Perth)
	11:40-12:00	Bees in space: an opportunity for mars society Australia	Prof. Lachlan Thompson (RMIT, Melbourne)
	12:00-12:20	Education & outreach with the MER mission	Glen Nagle (Tidbinbilla tracking station)
Lunch	12:20-13:00		
Session	13:00-14:30	Keynote lecture: Roving Mars: Spirit, Opportunity, and the exploration of the red planet	Prof. Steve Squyres (Cornell University, United States )
Free time	14:30-15:00		
Field trip to Tidbinbilla	15:00-18:00		Glen Nagle