

STEM ENRICHMENT 3 DAY INTENSIVE CONFERENCE

STEM Enrichment Conference Program

Wednesday 17th February

08:45-09:10	Registration open - Outside South Theatres 1 & 2		
09:10-09:55	09:10 - 09:20 WELCOME & OPENING OF CONFERENCE BY A/PROF MARIA PARAPPILLY, DIRECTOR, STEM ENRICHMENT ACADEMY 09:20 - 09:25 OPENING ADDRESS BY PROF CLAIRE LENEHAN DEAN (RESEARCH), COLLEGE OF SCIENCE AND ENGINEERING 09:25 - 09:55 PLENARY SESSION - PROF MADHU BHASKARN, CO-LEADER Functional Materials and Microsystems Research Group, RMIT, MELBOURNE		
Room:	South Theatre 1, overflow in South Theatre 2		
10:00-11:00	CONCURRENT SESSION 1		
Session:	1A - Hot optics and aMAZing lasers	1B - Light and its Applications	1C - Redox Reactions
STEM area:	Physics	Physics	Chemistry
Presenter:	<i>Dr Olivia Samardzic, Dr Alex Sabella, Dr Ben Sparkes and Lily Taylor (DST)</i>	<i>Dr Chris Perella, IPAS and OzGrav groups, University of Adelaide</i>	<i>Professor Claire Lenehan and Dr Sue Pyke (Lead), College of Science & Engineering</i>
Room:	PHYS220 Labs	PHYS 103&106 Labs	CHEM 235 & 238
11:00-11:25	Morning Tea - Anchor Court		
11:30-12:30	CONCURRENT SESSION 2		
Session:	2A - Hot optics and aMAZing lasers	2B - Light and its Applications	2C - Redox Reactions
STEM area:	Engineering	Physics	Chemistry
Presenter:	<i>Dr Olivia Samardzic, Dr Alex Sabella, Dr Ben Sparkes and Lily Taylor (DST)</i>	<i>Dr Chris Perella, IPAS and OzGrav groups, University of Adelaide</i>	<i>Professor Claire Lenehan and Dr Sue Pyke (Lead), College of Science & Engineering</i>
Room:	PHYS220 Labs	PHY103 & 106	CHEM 235 & 238
12:30-13:15	Lunch - Anchor Court		
13:20 -14:25	CONCURRENT SESSION 3		
Session:	3A - Hot optics and aMAZing lasers	3B - Light and its Applications	3C - Redox Reactions
STEM area:	Engineering	Physics	Chemistry
Presenter:	<i>Dr Olivia Samardzic, Dr Alex Sabella, Dr Ben Sparkes and Lily Taylor (DST)</i>	<i>Dr Chris Perella, IPAS and OzGrav groups, University of Adelaide</i>	<i>Professor Claire Lenehan and Dr Sue Pyke (Lead), College of Science & Engineering</i>
Room:	PHYS220 Labs	PHYS Lab 103 & 106	CHEM 235 & 238

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08:30-10:15	WOMEN IN STEM - NETWORKING BREAKFAST REGISTRATION 8.30 ALERE FUNCTION CENTRE		
	08:40 - WELCOME BY A/PROF MARIA PARAPPILLY, DIRECTOR, STEM ENRICHMENT ACADEMY		
	08:45 - LIGHTNING KEYNOTE DR ALICE CLEMENT, Evolutionary biologist and palaeontologist, Flinders University		
	09:00 PROF MADHU BHASKARN, CO-LEADER Functional Materials and Microsystems Research Group, RMIT, Melbourne		
	09:15 DR TASHA STANTON, Assoc Prof of Clinical Pain Neuroscience and the Osteoarthritis Research Theme Lead of IMPACT in Health at the University of South Australia		
	09:30 DR VICTORIA COLEMAN, Nanometrology Physical Metrology National Measurement Institute		
09:45-10:05	ROUND TABLE DISCUSSIONS LED BY FLINDERS UNIVERSITY STEMM ACADEMICS		
10:05-10:10	CLOSING		
10:15-11:15	CONCURRENT SESSION 4		
Session:	4A - Gravitational energy conservation and transfer	4B - Physics Random Experiments	4C - Building the World's Simplest Electric Motor
STEM area:	Physics	Physics	Physics
Presenter:	A/Prof Liz Angstmann, University of NSW	Physics Teacher Jason Dicker, Tasmania	Dr John Debs, ANU, Canberra
Room:	PHYS0006/0007	PHYS Lab 103 & 106	PHYS 218 & 220
11:15	MOVE TO WORKSHOP		
11:25-12:25	CONCURRENT SESSION 5		
Session:	5A - Gravitational energy conservation and transfer	5B - Physics Random Experiments	5C - Building the World's Simplest Electric Motor
STEM area:	Physics	Physics	Physics
Presenter:	A/Prof Liz Angstmann, University of NSW	Physics Teacher, Jason Dicker, Tasmania	Dr John Debs, ANU, Canberra
Room:	PHYS0006/0007	PHYS Lab 103 & 106	PHYS 218 & 220
12:30	LUNCH - OPTIONAL TOUR of Flinders Microscopy and Microanalysis		
	12:40 TOUR of Flinders Microscopy and Microanalysis	12:55 TOUR of Flinders Microscopy and Microanalysis	13:10 TOUR of Flinders Microscopy and Microanalysis
13:25-14:25	CONCURRENT SESSION 6		
Session:	6A - Gravitational energy conservation and transfer	6B - Physics Random Experiments	6C - Building the World's Simplest Electric Motor
STEM area:	Physics	Physics	Physics
Presenter:	A/Prof Liz Angstmann, University of NSW	Physics Teacher, Jason Dicker, Tasmania	Dr John Debs, ANU, Canberra
Room:	PHYS0006/0007	PHYS Lab 103 & 106	PHYS 218 & 220

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Friday 19th February

9:00	Registration			Tonsley Foyer & Outside
9:10	WELCOME BY A/PROF MARIA PARAPPILLY			
09:15-09:55	09:15-09:55 KEYNOTE ADDRESS BY Professor LISA HARVEY-SMITH Australian Government's Women in STEM Ambassador and a Professor of Practice at The University of New South Wales			
Room:	G42_Tonsley Theatre 1			
10:00-11:00	CONCURRENT SESSION 7			TEACHER PROF DEVELOPMENT
Session:	7A - Zumo Robot MARS Exploration	7B - The Impulse Challenge: Rehabilitation and Motion Analysis Research Lab	7C - Industry Tour	7D - Teacher PD#1 -: Contextualizing science
STEM area:	Engineering - Technology	Engineering - Bio Medical		Physics
Presenter:	Dr Sherry Randhawa (Flinders University)	Dr David Hobbs (Lead) College of Science & Engineering	Zeiss	A/Prof Liz Angstmann UNSW, Sydney
Room:	TONS 1.12, 1.13	TONS 1.08	TONSLEY PRECINCT	TONS 1.14
11:00-11:25	Morning Tea			
11:30-12:30	CONCURRENT SESSION 8			TEACHER PROF DEVELOPMENT
Session:	8A - Zumo Robot MARS Exploration	8B - The Impulse Challenge: Rehabilitation and Motion Analysis Research Lab	8C - Industry Tour	8D - Teacher PD#2 - Cosmology for teachers
STEM area:	Engineering	Engineering - Bio Medical		Physics
Presenter:	Dr Sherry Randhawa (Flinders University)	Dr David Hobbs (Lead) College of Science & Engineering	Zeiss	Jason Dicker (Launceston College, Tasmania)
Room:	TONS 1.12, 1.13	TONS 1.08	TONSLEY PRECINCT	TONS 1.14
12:30-13:10	Lunch			
13:15-14:15	CONCURRENT SESSION 9			TEACHER PROF DEVELOPMENT
Session:	9A - Zumo Robot MARS Exploration	9B - The Impulse Challenge: Rehabilitation and Motion Analysis Research Lab	9C - Industry Tour	9D - Teacher PD#3 - Special Relativity and Magnetism
STEM area:	Engineering	Engineering - Bio Medical		Physics
Presenter:	Dr Sherry Randhawa (Flinders University)	Dr David Hobbs (Lead) College of Science & Engineering	Zeiss	Jason Dicker (Launceston College, Tasmania)
Room:	TONS 1.12, 1.13	TONS 1.08	TONSLEY PRECINCT	TONS 1.14
14:15	Student Conference Feedback			
14:30	CLOSING CEREMONY, G.42_Tonsley Theatre 1			