

FIRST CIRCULAR

The Space Environment Research Centre (SERC) and the International Laser Ranging Service (ILRS) are pleased to announce that the **21st International Workshop on Laser Ranging** will be held in Canberra, Australia during the week of 4-9 November 2018 at the John Curtin School of Medical Research (Australian National University) and Mount Stromlo.

The workshop theme is *“Laser Ranging for Sustainable Millimeter Geoscience”*

Proposed session topics include:

SLR Contribution to Global Geodetic Observing System – A 2020 Perspective	<ul style="list-style-type: none"> ➤ Improving the International Terrestrial Reference Frame ➤ How does the SLR network meet GGOS 2020 requirements?
Improvements in the SLR Product Quality & Precise Orbit Determination	<ul style="list-style-type: none"> ➤ Improvements in the SLR product quality & precise orbit determination ➤ Support for GNSS constellations
Satellite Missions & Techniques for Geodetic Applications	<ul style="list-style-type: none"> ➤ New missions ➤ Mission updates ➤ Advanced techniques: altimetry, transponders and time transfer
Characteristics of Retroreflector Arrays	<ul style="list-style-type: none"> ➤ Advances in retroreflector design ➤ Retroreflector modelling ➤ Applications of new retroreflectors ➤ Satellite signatures
Sources of Systematic Errors	<ul style="list-style-type: none"> ➤ Station range bias & time bias ➤ System calibration and target survey ➤ Detection biases ➤ Effects of data screening techniques
Lunar Laser Ranging & Deep Space Missions	<ul style="list-style-type: none"> ➤ Advances in lunar laser ranging ➤ Future deep space missions ➤ Interplanetary laser ranging perspectives
Developments in SLR Techniques & Technologies	<ul style="list-style-type: none"> ➤ New devices and technologies ➤ Developments in instrumentation, detectors, timing systems, laser systems & laser safety
Developments in Software & Automation	<ul style="list-style-type: none"> ➤ Software techniques including automation/autonomous processes, scheduling & data processing ➤ Operational safety ➤ Optimised scheduling
Network Operations & Site Upgrades	<ul style="list-style-type: none"> ➤ SLR Network performance, upgrade & interaction with data users ➤ Improving station productivity, daylight tracking
Space Debris Sessions	<ul style="list-style-type: none"> ➤ Sensors & Satellite Tracking ➤ Orbit Determination & Propagation ➤ Conjunction Analysis & Collision Avoidance ➤ Mitigation & Remediation

Oral sessions will include presentations and discussion leading to recommendations where appropriate.

Station representatives are encouraged to submit posters outlining recent achievements and development plans for their stations.

The Program committee would like to announce that an oral presentation allocation will be reserved for a **Young Professional** in every Session of the Technical Program. Young Professionals are regarded for this purpose to be persons aged 35 years of age or younger or are within five (5) years of completion of a PhD.

Papers from Young Professionals are warmly welcomed.

Registration:

Registrations Open - **Monday 5 February 2018**

Please visit the Conference Website www.iwlr2018.serc.org.au to register for the 21st International Workshop on Laser Ranging and access information about the Workshop including a DRAFT program, discount accommodation packages, travel tips, visa information and abstract submission details.

Abstract Submission:

Call for Abstracts Open – **Monday 5 February 2018**

Closing date for abstracts – Friday 29 June 2018

International Program Committee:

David Ball - Chair	SERC, Australia
James Bennett - Deputy Chair	EOS Space Systems, Australia
Mathis Bloßfeld	German Geodetic Research Institute -Technical University Munich, Germany
Randall Carman	Yarragadee Geodetic Observatory, Australia
Steve Gower	SERC, Australia
Georg Kirchner	Austrian Academy of Science (AAS), Austria
Daniel Kucharski	SERC, Australia
Pawel Lejba	Space Research Centre of the Polish Academy of Sciences, Poland
Hyung-Chul Lim	Korea Astronomy and Space Science Institute, South Korea
Chris Moore	EOS Space Research Centre, Mt Stromlo Observatory, Australia
Toshimichi Otsubo	Hitotsubashi University, Japan
Erricos Pavlis	Goddard Earth Sciences & Technology Centre UMBC, USA
Michael Pearlman	Harvard Smithsonian Center for Astrophysics, USA
Daniela Thaller	The Federal Agency for Cartography and Geodesy (BKG), Germany
Matthew Wilkinson	Natural Environment Research Council, Herstmonceux, UK
Zhang Zhongping	Shanghai Astronomical Observatory, China
Michelle Fulton - Secretariat	SERC, Australia

Local Organising Committee:

David Ball	Chief Executive Officer, SERC
Steve Gower	General Manager, SERC
Michelle Fulton	Business Manager, SERC
Brooke Seivers	Administration Assistant, SERC
Claire Dodds-Eden	Conference Manager, Conference Logistics

KEY DATES:

- Registration Open – Monday 5 February 2018
- Call for Abstracts Open – Monday 5 February 2018
- Abstract Closing Date – Friday 29 June 2018
- Discounted hotel rates available until Monday 01 October 2018 *or until sold out*
- Notification of accepted oral and poster presentations – Friday 31 August 2018
- Presenter confirmation of inclusion in the program – Friday 14 September 2018
- Presenter registration complete – Friday 29 September 2018
- Oral presentation submission deadline – Monday 29 October 2018
- Poster submission deadline – Monday 29 October 2018
- Submission of full papers – TBC (after conclusion of Workshop)

If you have any questions or would like further details, please visit the Workshop website www.iwlr2018.serc.org.au or email:

IWLR Secretariat: michellefulton@serc.org.au

IWLR Conference Manager: Claire@conlog.com.au

We look forward to welcoming you to Canberra in November 2018!