

2nd Australia-Spain Research Forum: Light

CONFERENCE OF THE ASSOCIATION OF
SPANISH RESEARCHERS IN AUSTRALIA-PACIFIC

12-13 December 2016

Dunmore Lang College

130 Herring Road, Macquarie Park, NSW 2113

Macquarie University, Sydney

ARTIST: Warren Langley, "Growth". Melton Library and Learning Centre, Melbourne 2013

Formed polyethylene and LED light source. Suspended sculptural light work based upon the native eucalypt flower of the region



MACQUARIE
University



FUNDACIÓN RAMÓN ARECES



OBJECTIVE

The objective of the Australia-Spain Research Forums is to present to the wider community broad research topics which are of special interest to the Australian and Spanish societies.

The 1st Australia-Spain Research Forum was dedicated to Water (29-31 October 2015). It succeeded in attracting academic and industrial partners from both countries. Light is another broad area of active research interest for both Australia and Spain. Thus, the Spanish Researchers in Australia – Pacific (SRAP) and Macquarie University with the support of the Embassy of Spain (Canberra) and the Cátedra Instituto Cervantes (Instituto Cervantes Australia Academic Forum) have partnered together to organise the **2nd Australia – Spain Research Forum: Light** that will take place at Macquarie University on 12 – 13 December 2016.

BACKGROUND

The Spanish Researchers in Australia – Pacific (SRAP) is a non-for-profit organization established in 2014 to promote networking and collaboration between Spanish Researchers working in Asia – Pacific; support Australian research institutes and universities to understand and engage with Spanish Universities; and to assist Asia – Pacific Researchers to collaborate with Spanish Researchers. The Association was created with the assistance and support of the Embassy of Spain (Canberra), the Institute Cervantes (Sydney) and the Spain-Australia Council Foundation. The SRAP currently has 45 researchers working in 15 major universities and research centres across Asia-Pacific.

The Association has direct collaboration with:

- Embassy of Spain (Canberra) (www.exteriores.gob.es/Embajadas/CANBERRA/en)
- Institute Cervantes (Sydney) (www.sidney.cervantes.es/en)
- Consulate-General of Spain, Sydney (<http://www.exteriores.gob.es/Consulados/SYDNEY/en>)
- Spain-Australia Council Foundation (<http://www.spain-australia.org/en>)
- Ramón Areces Foundation (<http://www.fundacionareces.es>)
- Australian Embassy (Madrid) (www.spain.embassy.gov.au)
- Spanish Foundation for Science and Technology (FECYT) (www.fecyt.es)
- Centre for the Development of Industrial Technology (CDTI) (www.cdti.es)
- ACCIO, Catalonia Trade & Investment (www.catalonia.com/catalonia-trade-investment.jsp)

MONDAY 12 DECEMBER 2016

Time	Agenda
8.00AM	Registration
9.00AM	Conference opening – <i>Chair: Dr Sergio Leon-Saval (Vice-President SRAP and Director Sydney Astrophotonic Instrumentation Laboratory, University of Sydney)</i>
> 9.15AM	Welcome to the Light Forum – <i>Professor Barbara Messerle (Executive Dean, Faculty of Science & Engineering, Macquarie University)</i>
> 9.30AM	Welcome to Australia Spain Light Forum – <i>His Excellency Mr Manuel Cacho Quesada (Ambassador of Spain to Australia)</i>
> 9.45AM	Program Presentation – <i>Mr Victor Ugarte (Director Instituto Cervantes, Sydney)</i>
> 10.00AM	Science diplomacy between Europe and Australia – <i>Mr Jonas Rupp (Science, Research, Innovation, Technology and Education Advisor)</i>

	Coffee Break
11.30AM	LIGHT AND ENERGY: Solar Energy and Technology – <i>Chair: Dr Sergio Leon-Saval (Director Sydney Astrophotonic Instrumentation Laboratory, University of Sydney)</i>
> 11.40AM	“Light and energy in research” – <i>Prof Andrew Blakers (Director of ANU Centre for Sustainable Energy Systems)</i>
> 12.00PM	“Light and energy in industry” – <i>Mr Francisco Garcia Valverde (General Manager Elecnor Australia Pty Ltd)</i>
> 12.20PM	“Light harvesting with molecular semiconductors” – <i>Dr Nikos Kopidakis (Senior Lecturer, Faculty of Science and Engineering, Macquarie University)</i>
> 12.40PM	“Photosynthesis, a tale of light and dark” – <i>Dr Elena Martin-Avila (ARC Centre for Excellence for Translational Photosynthesis, ANU)</i>
1.00PM	Lunch
2.00PM	LIGHT AND SCIENCE: Astronomy & light, photonics & optics in your daily life – <i>Chair A/Prof Gabriel Molina-Terriza (Physics and Astronomy, Faculty of Science and Engineering, Macquarie University)</i>
> 2.10PM	“Light and the nanoscale, present and future” – <i>Prof Ben Eggleton (ARC Laureate Fellow, Director Centre for Ultrahigh Bandwidth Devices (CUDOS), University of Sydney)</i>
> 2.30PM	“Light in Astronomy” – <i>Prof Andrew Hopkins (Head of Research and Outreach, Australian Astronomical Observatory (AAO))</i>
> 2.50PM	“Lasers and sensing: lasers” – <i>Prof Helen Pask (ARC Future Fellow, Faculty of Science and Engineering, Macquarie University)</i>
> 3.10PM	“The Colour of the galaxies” – <i>Dr Angel R Lopez-Sanchez (Research Astronomer, Australian Astronomical Observatory (AAO) and Macquarie University)</i>
3.30PM	Round Table – Bridging Science, Energy and Industry – <i>Session Chair</i> Round Table Panel Members: – <i>Mr Alberto Cerdan (Senior Trade Commissioner Embassy of Spain)</i> – <i>Prof Andrew Hopkins (Head of Research and Outreach, Australian Astronomical Observatory (AAO))</i> – <i>Mr Francisco Garcia Valverde (General Manager Elecnor Australia Pty Ltd)</i> – <i>Ms Rosie Hicks (CEO of Australian National Fabrication Facility (ANFF))</i> – <i>A/Prof Maryanne Large (Innovation and Commercialisation, University of Sydney)</i>
4.30PM	Campus Tour Options: CUDOS or ‘To Absent Friends’ Hologram
5.30PM	Cocktail & Networking Drinks

TUESDAY 13 DECEMBER 2016

Time	Agenda
9.00AM	LIGHT & HEALTH: Medical Light-based technologies, Mental Health & Light – <i>Session Chair: Prof Luis Salvador-Carulla (Faculty of Health Sciences, Brain and Mind Research Institute, University of Sydney)</i>
> 9.10AM	“Light in medical imaging” – <i>Prof Zdenka Kuncic (Director of Community and Research, Australian Institute for Nanoscale Science and Technology, University of Sydney)</i>
> 9.30AM	“The light that keeps us in synch: a chronobiological perspective” – <i>Dr Maria Comas Soberats (Research Fellow, Woolcock Institute of Medical Research, Sydney)</i>
> 9.50AM	“Light and sleep” – <i>Mr Darren Umbers (Regional Director Australia and New Zealand, Philips Sleep and Respiratory Care)</i>
> 10.10AM	“Neuroscience in the age of light” – <i>Dr Simon McMullan (Senior Lecturer, Faculty of Medicine and Health Sciences, Macquarie University)</i>
11.30AM	LIGHT AND CULTURE: Design and Photography, Arts and Architecture – <i>Session Chair: Ms Paula Lull</i>
> 11.40AM	“Light Pollution in Society” – <i>Prof Fred Watson (Head of Lighting and Environment, Australian Astronomical Observatory (AAO))</i>
> 12.00PM	“The discipline of light for the discerning of art” – <i>Mr Simm Steel (Senior Lighting Designer, Steensen Varming Pty Ltd)</i>
> 12.20PM	“Summer light” – <i>Mr Rex Dupain (Artist, Photographer Fellow of the Australia Council for the Arts)</i>
> 12.40PM	“Volume and line in light sculpture” – <i>Mr Warren Langley (Artist, Fellow of the Australia Council for the Arts)</i>
1.00PM	Lunch
2.00PM	Open Discussion – “Light and Culture” – <i>Chair: Mr Victor Ugarte (Director Instituto Cervantes)</i> Introductory Seminar: “Light, Philosophy and Cultures” – <i>Mr Cesar Espada Sanchez (Deputy Head of Mission, Spanish Embassy Canberra)</i> – <i>Dr Robert Sinnerbrink (Senior Lecturer in Philosophy, Macquarie University)</i>
3.00PM	Closure Remarks – <i>Mr Alvaro Iranzo Gutierrez (Consul-General of Spain, Sydney)</i>
4.00PM	SRAP Session – AGM Annual Meeting (internal)

AN EVENT BY

Spanish Researchers in Australia Pacific and Macquarie University with the collaboration of the Embassy of Spain (Canberra), Cátedra Instituto Cervantes (Instituto Cervantes Australia Academic Forum)