

# INAUGURAL FRENCH-AUSTRALIAN ENERGY SYMPOSIUM

UNSW, Sydney, 7 February 2018

In the context of the 3<sup>rd</sup> Future Energy EF 3 Conference

<https://www.ausenergyfuture.com/>

An initiative conceived within



*(Australian-French Association for research and innovation)*

and supported by the Embassy of France in Australia

## **The critical importance of Energy and transition to new energy systems**

*Energy and the transition to new energy systems are of global importance with unprecedented room for innovation and new market opportunities.*

*Australia is a global producer of mineral resources, one of the largest exporters of energy commodities, and Australia has significant untapped renewable energy resources. Australia is also uniquely positioned in the Asia region, and its resources will continue to power Asia's industrialization, urbanization and growth.*

*This coupled with the highly skilled and complementary Australia-French research expertise and the capability of the Australian and French industry sector (multinational, SMEs and start-ups) creates new opportunities for joint innovation and ventures with global impact.*

## **An area where French-Australian research and innovation cooperation can generate substantial global impact**

*This symposium aims to rationalize existing bilateral collaborations.*

*The objective is to strengthen and grow existing relationships to create a unique base leading to a strong and multidisciplinary research capability enabling ground breaking research, translation and innovation.*

*By strengthening and expanding existing Australian-French research and industry collaborations in Energy innovation, workshop organizers foresee the potential for industry to benefit from a unique and unparalleled international research expertise.*

**A range of high level bilateral Science and Technology expertise, from both Academia and Industry**

**From France** CNRS, CEA, INES National Institute for Solar Energy, University Paris Est, PSL Chimie ParisTech, University of Bordeaux, University of Grenoble-Alpes, Universite de Nantes & Polytech Nantes, Universite de Montpellier, Universite d'Orleans

**From Australia** UNSW, CSIRO, ANU, University of Adelaide, Deakin University, Flinders

**From Industry** Neoen, Sabella, Thales Underwater Systems, Thinxtra, Jemena, Ecoult, Biopower solutions, CAP-XX

With the participation of NERA, The EU delegation to Australia and the EUROGIA + Eureka Cluster for Low Carbon Technologies

**Areas of focus for the symposium**

For this inaugural symposium, the following key areas of strategic importance for Australia and France will be targeted:

- Energy storage in the form of electrochemical (batteries, supercapacitors), chemicals (synthetic fuels, hydrogen), and thermal.
- Renewable energy in particular in the form of solar energy (photovoltaic but also the conversion of solar to chemical energy), biomass, marine energy and export of renewable energy (e.g. power to gas)
- Integration of Energy systems including renewable and energy management (large and small scale including grid management, battery management, hybrid energy systems management such as fuel cell/electrolyzer/battery)
- Electrical engineering and power electronic and smart systems supporting the above

**SYMPOSIUM PROGRAM**

From 8:00 am	<b>Registration</b>
8.45 - 8.55 am	<b>Welcome address for symposium Chairs</b> Francois Aguey-UNSW/Fermin Cuevas-CNRS
8.55 - 9.05 am	<b>Opening address French Embassy</b> Anne Rouault - Science and Technology Attaché Vanessa Bonnet- Economic Counsellor
9.05 - 9.25 am	<b>Overview Energy: The Australian roadmap</b> NERA CEO, Miranda Taylor
9.25 – 9.45 am	<b>Overview Energy: The French roadmap</b> Michel Latroche- CNRS
9.45 – 10.05 am	<b>Gabriel Marquette</b> CNRS & EUROGIA+, the EUREKA Cluster for Low Carbon Energy Technologies Collaborative R&D and strategic partnerships in the energy domain
10.05 - 10.25 am	<b>Morning tea</b>

	<b>Renewables and energy storage – Chair Fermin Cuevas</b>
10.25 - 10.40 am	<b>Francois Debailon - Neoen</b> Increasing renewable penetration through large scale batteries
10.40 – 10.55 am	<b>Laurence Croguennec- ICMCB-CNRS</b> Battery research in France
10.55 - 11.10 am	<b>Jean-Christophe Allo - Sabella</b> Feedback from D10 tidal project and opportunities in Australia
11.10- 11.25 am	<b>Patrick Howlett - Deakin Univ</b> French Australian connections for Advanced Batteries and Battery Materials
11.25 – 11.40 am	<b>David Vaughan – Jemena</b> Project H2GO
11.40 – 11.55 am	<b>Olivier Joubert – PolytechNantes &amp; UnivNantes</b> Brief overview of current French hydrogen research activities
11.55 – 12.10	<b>Justine Jarvinen- UNSW</b> Energy research overview
12.10- 12.25 pm	<b>Christophe Menezo - INES</b> Solar Cities in the context of urban densification : a fundamental challenge in terms of urban planning
12.20 - 1.30pm	<b>Working lunch with side speakers and posters</b> <ul style="list-style-type: none"> <li>• Knowledge Partnership – Engaging with Universities to develop innovation (Warwick Dawson- UNSW) <ul style="list-style-type: none"> <li>• Supercapacitors, past and future (Alex Biylk – CAP-XX)</li> <li>• How to launch an EmTech business case (John Wood – Ecoult)</li> </ul> </li> <li>• Launching a start-up: Biomass conversion into fuels (David Rochaya- Biopower solutions)</li> </ul>
	<b>Energy systems – Chair Anne Rouault</b>
1:30 to 1:45 pm	<b>Ken Baldwin – ANU</b> Energy research at the Energy Change Institute, The Australia National University
1:45 to 2:00 pm	<b>Renald Gallis – Thinxtra</b> The urgency for low cost energy harvesting and green batteries to power the billions of Industrial IoT LPWAN devices coming to the market
2:00 to 2:15 pm	<b>Phillipe Barboux- Chimie Paris Tech/PSL</b> Chimie Paris Tech: Our contribution to Future Energy
2:15 to 2:30 pm	<b>Gus Nathan - Adelaide Uni</b> Energy research at Adelaide University
2:30 to 2:45 pm	<b>Joe Shapter- Flinders Uni</b> Nanomaterials in Novel Solar Cells
2:45 to 3:00 pm	<b>Jonas Rupp - EU Research Advisor</b> Funding Mechanisms E.U perspective
3:00 to 3:30 pm	<b>Afternoon tea</b>
	<b>Round table discussions: How can we work together? Launch of emerging themes to chase and themes leaders</b>
3:30 to 3:50 pm	Funding mechanisms <b>Benjamin Matthewson- UNSW</b>
3:50 to 4:50 pm - 16.50pm	<b>Brainstorming and expertise mapping</b> Working groups to emerge +4 research themes/opportunities to chase
4:50 to 5:25 pm	<b>Action list</b>
5:25 to 5:30pm	<b>Closing remarks</b>
5:30 to 7 pm -	<b>Networking drinks</b>

**For more information, please contact :**

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