

Australian Nuclear Association

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An independent incorporated scientific institution made up of persons drawn from the professions, business, government and universities, with an interest in nuclear topics

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Pacific Nuclear Council

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Next Meeting

Hosted by the ANA

Current Status and Prospects for Small Modular Reactors

Tony Irwin

Nuclear Engineering Panel, Engineers Australia

1 pm, Thursday, 1 May 2014

AINSE Theatre, New Illawarra Rd, Lucas Heights, NSW

Abstract

Small Modular Reactors (SMRs) have the potential to provide low emissions baseload power to remote areas and small grid systems. SMRs have high levels of "natural" safety and the reactor containment can be installed underground providing protection against external hazards and unauthorized access. Construction has started in Argentina on the world's first new design SMR and one USA vendor will be submitting their formal Design Certification Application to the NRC this year.

This presentation will examine the current licensing status and deployment plans of water cooled SMRs and also review progress with some of the more advanced designs.

About Tony Irwin

Tony Irwin graduated in electrical engineering and worked for British Energy (formerly the Central Electricity Generating Board) in the UK for more than thirty years commissioning and operating 8 nuclear power plants. In 1999 he moved permanently to Australia and joined ANSTO's Department of Government and Public Affairs where he managed fuel strategies, including two spent fuel shipments to France, and provided advice on nuclear energy. In 2004 he was appointed as Reactor Manager for the commissioning and early operation of the new OPAL research reactor.

Since retiring in late 2009, Tony is Chairman of Engineers Australia Sydney Division Nuclear Engineering Panel and visiting lecturer for the Master of Nuclear Science Course at the Australian National University and the Nuclear Engineering course at the University of New South Wales. Tony is the Technical Director of SMR Nuclear Technology Pty Ltd, an Australian company established in 2012 to provide Australia with the option of SMRs for electricity generation.

Professor Mary O'Kane presentation to the Annual Meeting of the Four Societies

This year, ANA hosted the Annual Meeting of the Four Societies (Australian Nuclear Association, Royal Society of New South Wales, Australian Institute of Energy and Nuclear Engineering Panel of the Sydney Branch of Engineers Australia).

The speaker at this Four Societies meeting was **Professor Mary O'Kane**, NSW Chief Scientist and Engineer, who gave a presentation on "**Questions about Power in NSW**" in the Hamilton Room, MLC Centre, Sydney, at 6 pm, Thursday 27 February. The slides for Professor O'Kane's very interesting talk are [here](#).

Mark Ho Presentation on Molten Salt Reactors

Slides from Mark Ho (ANSTO) presentation on Molten Salt Reactors to the Nuclear Engineering Panel, Engineers Australia, on 19 March 2014 are available [here](#).

Dr Eric (Lou) Vance receives ANA Award for 2013

The ANA 2013 Award was presented to Dr Eric (Lou) Vance on Friday 6 December 2013 by ANA President Dr Therese Donlevy at the ANA Annual Lunch at the Sutherland United Services Club, Sutherland NSW.

Dr Eric (Lou) Vance has made an outstanding contribution to ceramic science and to the development of advanced ceramics for immobilisation of radioactive waste. He is a fellow of the Australian Institute of Physics, the American Ceramics Society, the Australian Academy of Technological Sciences and Engineering and the Australian Ceramic Society.

Dr Vance is a highly respected member of the international scientific community, is continually invited to be a guest speaker, and maintains his links with prestigious international research laboratories and universities. As a mentor, Dr Vance provides valuable guidance to his staff and is an excellent sounding board for testing ideas. He is author or co-author of over 330 articles in international journals and refereed conference proceedings and co-author of 3 patents.

The ANA was pleased to give the 2013 Australian Nuclear Association Annual Award to Dr Lou Vance in recognition of his outstanding contribution to nuclear science and technology in Australia by his contribution to development of ceramic waste forms for immobilisation of radioactive waste.

Pacific Basin Nuclear Conference, Vancouver, 24-28 Aug 2014

The Canadian Nuclear Society, the Canadian Nuclear Association, and Natural Resources Canada are hosting the 19th Pacific Basin Nuclear Conference (PBNC-2014) in Vancouver, British Columbia, Canada, 24-28 August 2014, under the aegis of the Pacific Nuclear Council. The ANA is a member of the Pacific Nuclear Council

The theme of PBNC-2014 is " Fulfilling the Promise of Nuclear Technology around the Pacific Basin in the 21st Century" . Authors are encouraged to submit papers on any topic in nuclear technology for oral presentation in technical sessions at PBNC-2014. Papers will be organized in 10 technical tracks.

Please visit the [PBNC-2014 website](#) for more information, to submit papers, and to register.

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