

THE SOUTH PACIFIC ENVIRONMENTAL RADIOACTIVITY ASSOCIATION (SPERA)



provides a forum to encourage and facilitate communication among scientists in the field of environmental radioactivity



CO-AUTHORS - SPERA EXEC COMMITTEE

President

Andreas Bollhöfer *Eriss, AU*
BfS, GER

Vice President

Emma Carey **ARPANSA, AU**

Secretary

Che Doering *eriss, AU*

Treasurer

Stephen Long **ARPANSA, AU**

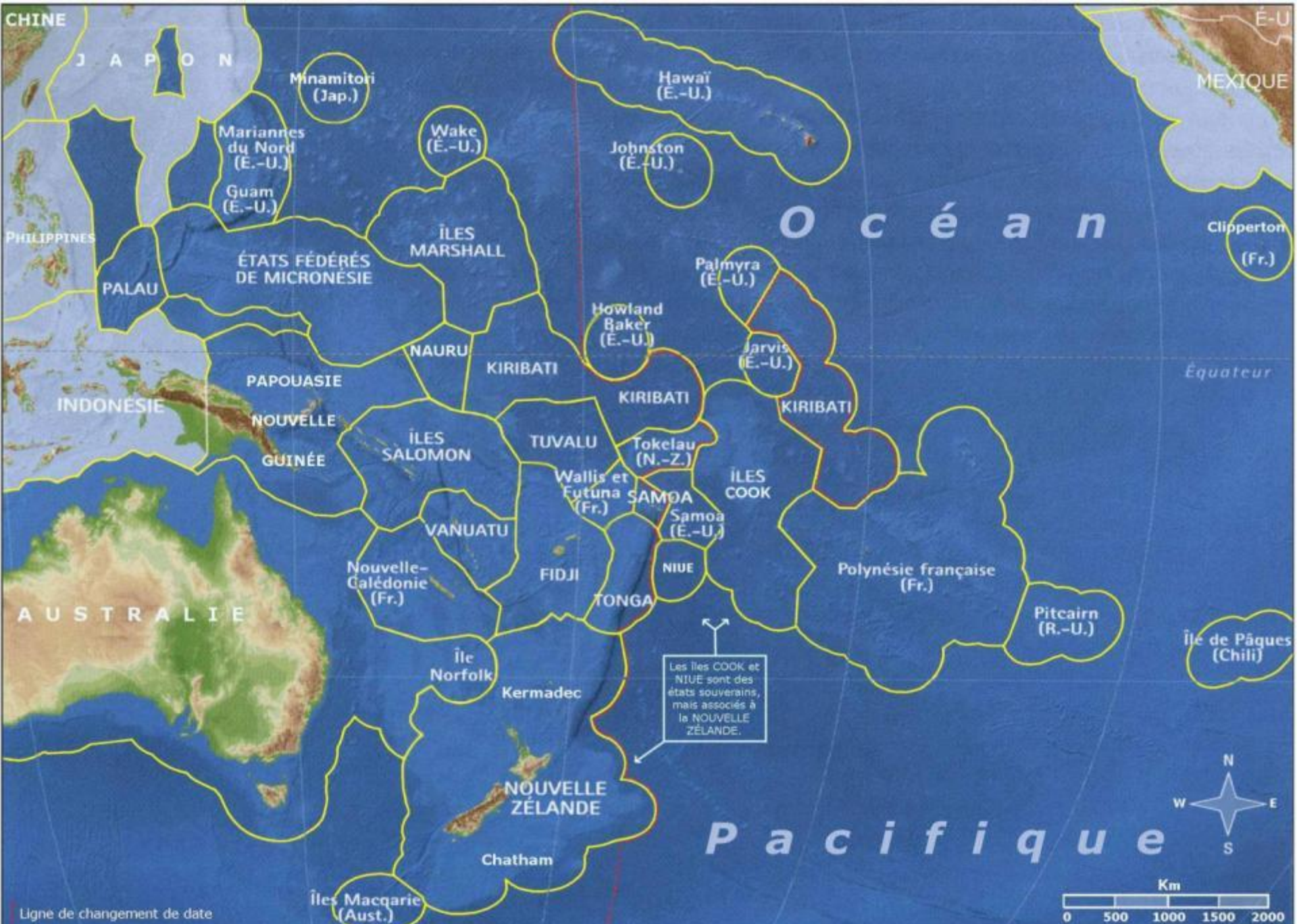
Committee Members

Stephen Tims **ANU, AU**

Michelle Thomas *NCRS, NZ*

OBJECTIVES

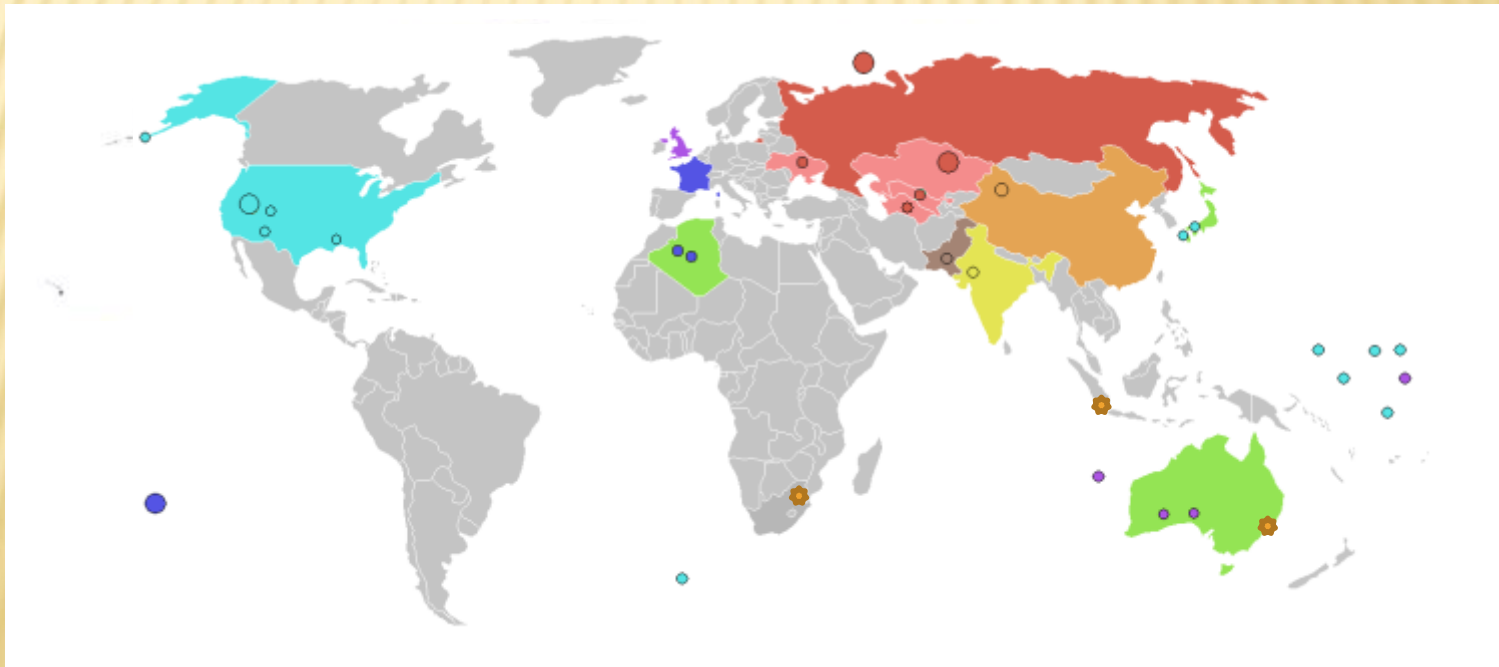
Encourage and facilitate communication and cooperation among scientists working in the South Pacific region in the field of environmental radioactivity which involves the study of the occurrence, behaviour and impact of radioactive species present in the environment either due to natural processes or as a result of human activities. The South Pacific region is deemed to include all countries in, or bordering on, the South Pacific Ocean.



Carte de l'Océanie actualisée, par S.I.Cepleanu, d'après : Benoît Antheaume et Joël Bonnemaïson : « Atlas des îles et des états du Pacifique sud », GIP Recus-Publisud, 1988 ; Robert Choquard, Alexandre Nicolas et Jean-Christophe Victor (dir.) : « Le dessous des cartes, itinéraires géopolitiques », Taillandier 2011 ; et « The World Factbook » 2011, Washington, DC : C.I.A. Les limites, en jaune, des Z.E.E., sont données à titre indicatif (validation en cours des différentes revendications).

THE REGION

- ✘ No nuclear power production, but . . .
 - + 21 of recent 27 new NPPs connected to grid in Asia
- ✘ $> \frac{1}{4}$ of world's recoverable U resources in Australia
- ✘ Weapons test sites (Maralinga, Mururoa....)
- ✘ Research Reactors, MIPFs (ANSTO, Serpong)



ABOUT SPERA

- ✘ Small, non-for-profit, apolitical, scientific
- ✘ Workshops: 1985 (Sydney); 1990 (Adelaide)
- ✘ 1991: 1st meeting in Tahiti: drafting of constitution
- ✘ 1992: registered in SA
- ✘ MoU with IUR in 2012
- ✘ 2014 founding member of the IUR FORUM



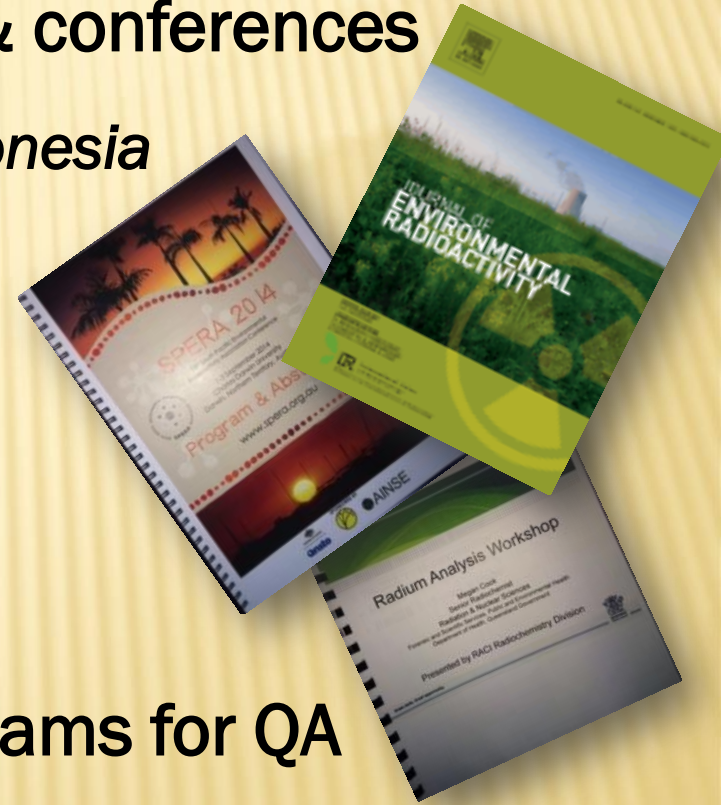
K. Nanba - K. E. Frogg - A. Bollhoefer - T. Yankovich - S. Yoshida - K. Smith - G. Smith - L. Kapustka
W. Kuhne - P. Strand - O. Masson - K. Higley - K. Leonard - H. Vandenhove - F. Brechignac - T. Hinton

Presently about 90 SPERA members

ACTIVITIES

(a) Conduct workshops, symposia & conferences

- *SPERA 2016 & SERIR2, Bali, Indonesia*
 - *RACI workshop*
- *SPERA 2014 Darwin*
 - *Radium workshop*
 - *GEANT4 workshop*
- *SPERA 2012 Sydney*
 - *OPAL Reactor*



(b) organise inter-comparison programs for QA

(c) provide advice & information on environmental radioactivity and technical issues to scientists in the South Pacific region and elsewhere

SPERA CONFERENCES & WORKSHOPS

- ✘ 1985: Environmental Radioactivity workshop in Sydney
- ✘ 1990: Environmental Radioactivity workshop in Adelaide
- ✘ 1991: 1st SPERA meeting in Tahiti
- ✘ 1992: Conference in Dunedin - New Zealand
- ✘ 1994: Canberra - Australia
- ✘ 1996: Darwin & Jabiru - Australia
- ✘ 1998: Christchurch - New Zealand
- ✘ 2000: Noumea - New Caledonia
- ✘ 2002: Sydney - Australia
- ✘ 2004: Valdivia - Chile
- ✘ 2006: Melbourne - Australia
- ✘ 2008: Christchurch - New Zealand
- ✘ 2010: Gold Coast - Australia
- ✘ 2012: Sydney - Australia
- ✘ 2014: Darwin
- ✘ 2016: Bali - Indonesia (14th SPERA conference)





SPERA MEMBERS & SUPPORT



Australian Government

Australian Radiation Protection and Nuclear Safety Agency

Australian Government

Department of the Environment

Supervising Scientist



+ many others: Austral University of Chile; University of South Pacific; Qld Health; SA EPA; CDU, ARPS . . .

COMMON ISSUES & WAY FORWARD

- ✘ **Common themes** across SPERA member organisations
 - + Modelling and dose assessment for humans & environment
 - + Transfer of U and transuranics
 - + ‘not-so-temperate’ environments
 - + Remediation of **legacy sites**
 - + Funding cuts ->
 - ✘ Coordination of research programs and facilities
 - ✘ Capacity building in the region
- ✘ Need for enhanced coordination with other organisation in the region i.e. RACI; ARPS; SETAC Australasia; BATAN; Asian networks (**SPERA 2016**)
- ✘ Enhanced **international involvement** through (co)funding trips; feedback on IAEA WGs to SPERA; further linkages ?

Thank you

