

Happy Friday everyone! Here is your MSSANZ weekly digest comprising a postdoctoral job opportunity and a conference. See below and at the URLs provide. Cheers, Val

- 2-Year Postdoctoral Opportunity in Stochastic Hydrology and Climate Risk Assessment, <http://careers.adelaide.edu.au/cw/en/job/503104/grantfunded-researcher-a-school-of-civil-environmental-and-mining-engineering>
- 1st Asia Pacific Conference on Sustainable Development of Energy, Water and Environment Systems, Gold Coast, Australia from April 6-9, 2020, <http://www.goldcoast2020.sdewes.org>

## **2-Year Postdoctoral Opportunity in Stochastic Hydrology and Climate Risk Assessment**

**(Level A) \$86,587 to \$92,796 per annum plus an employer contribution of up to 17% superannuation may apply**

**Fixed term, full-time position for two years**

**An exciting postdoctoral research position working at the forefront of stochastic hydrology and climate risk assessments**

Working closely with world-leading researchers in the University of Adelaide's Intelligent Water Decisions group, the successful applicant will develop scalable software tools that will enable industry and government stakeholders to quantify and effectively manage their climate risks.

The project builds upon a rich set of algorithms and tools that have been developed and published by the University of Adelaide research team for risk assessment and stress-testing systems to climate variability and change. The successful candidate will further develop and refine these tools, focusing on improving functionality, performance, accessibility and applicability for a wide range of use-cases. There will also be numerous opportunities to drive fundamental advances in stochastic space-time modelling techniques that can address real world problems related to climate risks.

There are likely to be significant opportunities to develop original research outcomes and work closely with industry to co-create tools that will maximise the utility of the tools to a broad set of application areas.

**To be successful you will need:**

- A PhD in hydrology, climatology, stochastic modelling, statistics or a related field.
- Demonstrated experience in computer programming (e.g. R, Matlab, Fortran, C, and/or Python) and/or developing high-quality software packages.
- Demonstrated experience in statistical modelling (e.g. time series simulation approaches; spatial modelling and/or geostatistics; parameter estimation and model evaluation).
- Excellent written and verbal communication skills with a strong track record of producing high-quality scientific publications and presentations.
- Excellent organisational skills and a proven record of completing set tasks on time and, demonstrated ability to work independently and as part of a team.

Further details can be found at:

<http://careers.adelaide.edu.au/cw/en/job/503104/grantfunded-researcher-a-school-of-civil-environmental-and-mining-engineering>

## 1st Asia Pacific Conference on Sustainable Development of Energy, Water and Environment Systems,

Dear Colleagues

**Encouraged by the success of the conference series on Sustainable Development of Energy Water and Environment Systems (SDEWES) we are glad to inform you that starting from 2020 a regional biannual series targeting the Asia Pacific region (AP SDEWES conferences) have been initiated, with first conference to be held in Gold Coast, Australia in 2020.**

Can engineering solutions mitigate the climate change before we need to adapt? How can we build low carbon energy systems? How can we integrate water, energy, transport, waste and food systems so that we decouple development from the growing use of resources? What are the societal and economic challenges before implementing clearly beneficial engineering solutions? What is the role of sustainable cities and regions?

These and many other questions are being asked and answered by researchers participating in the Conference on Sustainable Development of Energy, Water and Environment Systems (**SDEWES Conference**), an event devoted to scientists, engineers, policymakers, students and other interested parties in the field of sustainable development. The first six SDEWES Conferences were held in Dubrovnik, later being also held in Ohrid, on a Mediterranean cruiser between Venice and Istanbul, Lisbon, Piran, Palermo, Rio de Janeiro, Novi Sad and every odd year again in Dubrovnik.

We are pleased to invite you to the  
**1<sup>st</sup> Asia Pacific Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES 2020 Gold Coast)**

which is going to be held in the beautiful city of **Gold Coast, Australia**  
from April 6-9, 2020.

The details about the Conference (important dates, conference fee, accommodation, contact addresses, etc.) can be found on the web site:

<http://www.goldcoast2020.sdewes.org>



The scientific quality of the conferences is confirmed by the fact that leading international archival scientific journals, "Energy - The International Journal", "Applied Energy", "Journal of Cleaner Production", "Energy Conversion and Management", "Journal of Environmental Management", "Renewable Energy", "Renewable and Sustainable Energy Reviews", "Journal of Sustainable Development of Energy, Water and Environment Systems" and others have in the past dedicated and published special issues for selected and reviewed papers from the conferences,

and some intend to do that also for the next SDEWES conference. The past publications resulting from the Conferences can be found at:

<http://www.sdewes.org/journals.php>

We would highly appreciate your attendance, as well as the promotion of the SDEWES Conference event among your colleagues and co-workers.

**Please, forward this Call for Papers!**

Authors willing to present a paper should submit an abstract, up to one page, using webform:

<http://goldcoast2020.sdewes.org/call-for-papers>

These abstracts will then be reviewed by the International Scientific Committee. The full papers will be directly submitted via the electronic submission system.

**Submit your Archival abstract by October 17, 2019.**

Other important dates are available on the conference web site.

If you have any question please send it to: [goldcoast2020@sdewes.org](mailto:goldcoast2020@sdewes.org)

**We are looking forward to your contributions and to see you in Gold Coast!**

Sincerely yours,

**Prof. Rodney Stewart** (Chair of the Local Organising Committee)  
**Prof. Maria da Graça Carvalho** (Chair of the International Scientific Committee)  
**Prof. Ivo Šlaus** (Chair of the Scientific Advisory Board)  
**Prof. Zvonimir Guzovic** (Secretary of the Conference)  
**Dr. Oz Sahin** (Co-Chair of the Local Organising Committee)  
**Prof. Neven Duic** (Co-Chair of the Local Organising Committee)