



College of Engineering

**Prof. Wang Rong and Prof. Anthony G. Fane win the Alternative Water Resources Prize at the 7<sup>th</sup> Award of the PSIPW**

The College would like to extend its warmest congratulations to Prof. Wang Rong, chair of CEE and Prof. Anthony G. Fane, visiting professor with NEWRI for winning the Alternative Water Resources Prize at the 7<sup>th</sup> Award of the Prince Sultan Bin Abdulaziz International Prize for Water (PSIPW).

The prize is awarded to the team for their development and application of novel forward osmosis hollow fibre membranes. Their work combines forward osmosis with a reverse osmosis (RO)-like inner selective layer and a novel and previously undiscovered positively charged nanofiltration (NF)-like outer selective layer.

This novel structure provides enhanced performance by reducing the effects of scaling and flux losses caused by internal concentration polarization. This development has made it possible to combine forward osmosis with existing technologies to create novel hybrid membrane systems for water reclamation and recycling at lower energy intensity.

**About the PSIPW**

PSIPW is a leading, global scientific award focusing on cutting-edge innovation in water research. It gives recognition to scientists,

researchers and inventors around the world for pioneering work that addresses the problem of water scarcity in creative and effective ways. To this end, PSIPW offer a suite of five prizes every two years, covering the entire water research landscape.

The Awards ceremony for the 7<sup>th</sup> Award will be held at the United Nations headquarters in New York, NY on 2 November 2016. It is being hosted by the U.N. Friends of Water and presided over by the U.N. General Secretary H.E. Mr. Ban Key Moon, and by PSIPW Chairman H.R.H. Prince Khaled Bin Sultan Bin Abdualziz.

For more information on the 7<sup>th</sup> Award of the PSIPW, please visit:  
[http://www.psipw.org/index.php?option=com\\_content&view=article&id=383:prize-council-announces-winners-for-the-7th-award-&catid=2:news-a-events&Itemid=26](http://www.psipw.org/index.php?option=com_content&view=article&id=383:prize-council-announces-winners-for-the-7th-award-&catid=2:news-a-events&Itemid=26)