

## eNotice

Home

Help

Subject: IEEE Distinguished lecture on Coastal Ocean Radars-Results and Applications

To: R00025 (Singapore Section)

Grades: Honorary, Associate Members, Members, Senior Members, Fellows, Life Members, Life Seniors, Life Fellow, Graduate Student Members, Student Members

Memberships: Active

Priority: Normal

Reminder: None

Reply to: no-reply@ieee.org

Private: No

Attachments: None

The world's largest technical professional organization dedicated  
to advancing technology for the benefit of humanity



Date and time: 7th April, 11 am

Venue: S2S building, TMSI, NUS (Check this link for directions: <http://www.tmsi.nus.edu.sg/getting-here> )**Organizers**

IEEE Oceanic Engineering Society, Singapore Section

**Co-Sponsor**

Tropical Marine Science Institute, National University of Singapore

**Abstract of talk:** A descriptive overview of the Australian Coastal Ocean Radar Network is given with some background about how sites are selected and configured. A suite of results and applications emanating from the ACORN network is presented, including Lagrangian Tracking; assistance to management in the Great Barrier Reef Marine Park; assistance in the salvage of a grounded ship; and the observation of cold fronts in the Southern Ocean.

**Speaker:** Prof. Mal Heron, Marine Geophysical Lab, James Cook University, Australia

**About the speaker:** Professor Mal Heron is Chief Researcher in the Marine Geophysical Laboratory at James Cook University in Townsville, Australia, and is a Consultant with Portmap Remote Ocean Sensing Pty Ltd. His PhD work in Auckland, New Zealand, was on radio-wave probing of the ionosphere, and that is reflected in his early ionospheric papers. He changed research fields to the scattering of HF radio waves from the ocean surface during the 1980s. Through the 1990s his research has broadened into oceanographic phenomena which can be studied by remote sensing, including HF radar and salinity mapping from airborne microwave radiometers. Throughout, there have been one-off papers where he has been involved in solving a problem in a cognate area like medical physics, and paleobiogeography. Occasionally, he has diverted into side-tracks like a burst of papers on the effect of bushfires on radio communications. His present project of the Australian Coastal Ocean Radar Network (ACORN) is about the development of new processing methods and applications of HF radar data to address oceanography problems. He is currently promoting the use of high resolution VHF ocean radars, based on the PortMap high resolution radar.

**Contact**– IEEE Oceanic Engineering Society Secretary, Hari Vishnu: [harivishnu@gmail.com](mailto:harivishnu@gmail.com)Singapore Section : <http://ieeesingapore.org/>[Manage your IEEE Communications Preferences](#)

IEEE • 445 HOES LANE • PISCATAWAY, NJ 08854 USA

