

APRSC 2012 Pre-conference Technical Seminar: **“Pulsars Artificial Structures In Galactic Navigational Communications and Spectrum Utilisation and Its Applications”**

- Organised by:** Asia Pacific Radio Spectrum Conference 2012 Organising Committee; and Electronics and Communications Section Committee (ECS), The IET Hong Kong
- Supported by:** IEEE Consumer Electronics Society (CES) Hong Kong Chapter
Chinese Institute of Electronics Hong Kong (CIE Hong Kong)
The Institute of Industrial Engineers (Hong Kong)
- Date:** 23 February, 2012 (Thursday)
- Time:** 6:30 pm – 8:00 pm (refreshment at 6:30 pm; seminar starts at 7:00 pm)
- Venue:** Room DE308, The Hong Kong Polytechnic University
- Speaker:** Dr. Wallace Soong – Nanokong Systems Consultant Ltd.
- Language:** Cantonese, supplemented with English
- No. Participants:** 70, on first-come first-served basis
- Enrollment:** www.theiet.org.hk/
- Fees:** Free of charge
- Enquiry:** Ben Li, Email: benli.iet@gmail.com , libenj@theiet.org
Eddie P.S. Liu, Email: eddieliu88@gmail.com , psliu@theiet.org
Dr. K.F. Tsang, Email: ee330015@cityu.edu.hk
W.C. Lee, Email: enwclee@polyu.edu.hk
- Registration:** For IET members, please use the online registration service in IET-HK website at <http://www.theiet.org.hk/> under the **“News & Event”** pull-down menu.
- For non-IET members, please complete the IET-HK Activities Reply Form downloadable from IET-HK web: <http://www.theiet.org.hk> under **Members Zone’s Download Form** and submit it by means of fax to Attn: IET-HK Branch Office (fax no: 2778 1711) or by email to eddieliu88@gmail.com or psliu@theiet.org or khung@ouhk.edu.hk .

Abstract:

The idea of a spherical shape of our planet Earth was established about five hundred years ago. Could the next communication and radio spectrum applications breakthrough be illuminated by the galactic navigation lighthouses of the Universe.

In 1967 discovery of pulsars reflects the scientific debate over their origins and nature. A 1968 news story:

An entirely novel kind of star came to light on Aug. 6 last year and was referred to, by astronomers, as LGM (Little Green Men). Now it is thought to be a novel type between a white dwarf and a neutron [star]. The name Pulsar is likely to be given to it. Dr. A. Hewish told me yesterday: "... I am sure that today every radio telescope is looking at the Pulsars".

Carl Sagan also proposed that they might be artificial beacons. By 1968, the artificial connection to pulsars was quickly explained away with the theory that they were remnants of supernovas.

The speaker will introduce features of pulsars and their distribution in the galactic equatorial, evidential research by Paul LaViolette, the possible encrypted information in the beacon and future applications of the pulsars phenomenon.

About the Guest Speaker:

Dr. Wallace Soong held degrees in Computer Sciences and Electronic Engineering of the University of London (Kings & University College) and a PhD degree in Rehabilitation Sciences of the Hong Kong Polytechnic University. Dr. Soong is employed by Nanokong Systems Consultant Limited in health care equipments research, where the effect of modulated frequency in known fields are explored, including survey works of electromagnetic, radioactive interferences, etc to the environment. Dr. Soong is also a hobbyist in astrophysics and is enthusiastic in repeating vintage experiments.

About the APRSC2012 pre-conference Seminar:

This technical seminar on “**Pulsars Artificial Structures In Galactic Navigational Communications and Spectrum Utilisation and Its Applications**” is a pre-conference seminar event of the Asia Pacific Radio Spectrum Conference 2012 (APRSC2012). The APRSC2012 radio spectrum conference has been planned by the steering committee and the organising committee and is scheduled to be held on 12-13 April 2012. In relation to the conference event information about this APRSC2012 radio spectrum conference, please note the advertisement in the IET-HK Newsletters, and browse the APRSC2012 conference web site <http://www.theiet.org.hk/APRSC2012> for more details.