



Aerospace and Electronic Systems / Technology Management Chapter of the IEEE NJ Coast Section

Co-Sponsors: IEEE NJ Coast Women in Engineering (WIE) and
School of Science, Software Engineering Monmouth University

"Radio Astronomy and Satellite Communication, two N.J. first"

Whenever we touches history, events of the past belong to the present

Presented by "Science is **FUND**amental" Wall Library

Electrical Eng. Luis A Riesco, IEEE Life Senior Member

Thursday October 7th, 2010 at 7:00 PM

FREE Presentation for Adults. Limited seat availability
Coffee and Cookies served

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Abstract

I will recreate these landmarks into the present. Initially we will review very simple basic units as relates to waves, used real receivers, transmitter, and antennas principles.

- **The Bell Lab** initial objective was to find ways to eliminate noise interfering with Tran-Atlantic radio transmissions. The research minded Karl Jansky detected, stored analyzed those radio noises, concluding they originated at the Milky Way Galaxy, and the strongest pointing Sagittarius. **Holmdel, 1933 Radio Astronomy started.**

- **CampEvans** objective was to send radio waves through the ionosphere into space, to the Moon and retrieve the signal. Lt. Col. John De Witt's team developed transmitters, antenna arrays and receptors that allowed to prove that radio space transmission was possible. **Wall, 1946 Satellite Communication started.**

- We will see how these Pioneers used radio communication engineering and ingeniously applied with a healthy Corporate and US Army funds, being some experienced radio amateur operators.

About the Speaker

Luis A. Riesco, Electrical Engineer, Universidad Nacional del Sur, Bahía Blanca, Argentina.
Engineering and Teaching positions in Argentina, Chile and USA for 40 years.

FAPESA Philips Eng. Mass production lamps, modern receiving/transmitting and TV tubes.

Titular Professor in Electronic, Universidad de Concepción, Chile. Application and R&D Eng.,
Amperex Power tube /NA Philips. Signalite Eng. gas lamps components and ceramic spark gaps.
Buck Engineering , **Educational equipment Design Engineer.**

Bendix/Honeywell Aerospace Electric Power Division, Eatontown, **Design, Senior Eng, R&D and**
Quality , Solid State Power Electronics, electrical Equipment and Generators. Patent of
Inventions Hanovia, Newark, NJ **Design Eng Magnetics controls for UV lamps.**

Present: President and CEO of Ideas Unlimited, Corp. IEEE Treasurer, Secretary of the
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