

IEEE New Jersey Coast Section
Consultants Network and PACE
Present

“Improving the State of Engineering in the USA”

by

Dr. Ralph W. Wyndrum Jr., F.IEEE
IEEE USA President
Past V.P. of AT& T Labs

Thursday, Oct 5, 2006

11-45 AM to 1.30 PM

Middletown Public Library

55 New Monmouth Road, Middletown, NJ 07748

Meeting is FREE, but you MUST register to attend

Pizza & Soda are on us – FREE!

Please visit

<http://ewh.ieee.org/r1/njcoast>

for

registration & talk details

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Abstract:

The talk will respond to questions such as

1. How can U.S. Engineers succeed in the new global environment?
2. Is engineering losing its value today?
3. What are specific IEEE/IEEE-USA programs to maintain U.S. Leadership in innovation, including the innovation Institute in Washington, DC?
4. What IEEE programs in the USA address the needs for pre-college education in STEM, and mid-career education for practicing engineers?

Ralph W. Wyndrum, Jr.

Dr. Wyndrum leads Executive Engineering Consultants, in areas of R&D resource allocation and decision sciences targeted at new products and services. He also teaches Strategic Leadership/ Decision Quality at Rutgers. Prior to assuming these positions, he had a long and successful career at Bell Labs and AT&T Labs, beginning in thin film and solid state circuit R&D, and retiring as Program Planning and Management Vice President.

During his 36 years at Bell-Labs/AT&T, Wyndrum was Member of Technical Staff; Supervisor of IC Development; Head of several R&D Departments; Director of Systems Analysis; of Quality, Engineering, Software and Technologies; Technology V.P. of AT&T Labs; and Program Planning and Management V.P. In 2000 he was an AT&T Executive Consultant, involved in a wide variety of business-related projects and development of a graduate level Internet Protocol curriculum for AT&T's technical staff. In the 1970s and 1980s, Wyndrum served as the ITU delegate in Geneva from AT&T for local Transmission Systems. He led the development for manufacture of several digital Subscriber Loop carrier systems now serving millions of customers, and of the early prototype TouchTone Telephones. He also taught graduate EE courses at Stevens Institute as adjunct Professor from 1981-1988, and has advised masters and doctoral thesis students at NJIT and Rutgers where he now teaches. Wyndrum is listed in “Who’s Who in America” and several similar registers.

In 2004 he served as IEEE V.P. of Technology Activities and has served as a member of the IEEE Executive Committee, and the Board of Directors for five years. In 2003, he was V.P. for Technology Policy of IEEE-USA. He has served on the Boards of the Communications Society and the CPMT Society, and was the President of the CPMT Society. He has also served as IEEE

Publications V.P., and on the Technical Activities Board (TAB), the U.S. Activities Board, and as an ABET evaluator.

As IEEE-USA President, Wyndrum has initiated a major membership value development program, and new thrusts to ensure close and cooperative relationships with the other major IEEE OUs. He is advancing IEEE-EAB programs aimed at mid-career education and at K-12 Science and Mathematics education. He is also inaugurating the new IEEE-USA Innovation Institute in Washington, DC.

Dr. Wyndrum holds BS(EE) and MS(EE) degrees and an Executive MBA from Columbia University and a Doctorate(Eng.Sc.D.) from New York University. He has published over 40 papers, articles and reviews and is a contributing author to texts published by Wiley and McGraw Hill. He is frequently invited to speak at international conferences and workshops and holds six patents in integrated circuit applications, VF receiver design, and voice/data transmission.