



**IEEE Southeastern Michigan Section
Spring Section Conference & Dinner
Thursday, Mar 29, 2007 5pm – 9pm
Fairlane Center, University of Michigan – Dearborn**

CHAPTER-1: Circuits and Systems (CAS), Signal Processing (SP), and Information Theory (IT)



**"TELECOMMUNICATIONS GLOBAL ENGINEERING:
WHAT'S OUT THERE FOR ME?"**

*Joseph P. Cool, President
Cool & Associates, Inc.*

Abstract: As various countries and economies develop throughout the global marketplace, invariably requirements develop for all disciplines of Engineering including Electrical, Computer Sciences and Telecommunications. To be successful in Global Engineering as with any technical or service-oriented discipline, a “niche” must be developed and improved upon to be successful in the global marketplace. While this presentation is general in nature, the field of international Telecommunications will be described with practical anecdotal examples of successful completion of engineering projects from a global perspective. The presentation will elaborate on the following topics:

- Briefly discuss motivational aspects of the Global Engineering process through the Wheel of Self-Worth and Key Success Factors from a Global Perspective. A real-world international, multi-national/multi-cultural Telecommunications project will be described to demonstrate the power of Key Success Factors through interaction between various cultures in successful project completion. A brief discussion will be provided describing typical Career Paths for Engineers upon successful completion of their academic experience.
- Discuss several international Telecommunications projects with experiential stories of real-world projects with the attendant engineering trade-offs required for successful completion. The concept of TRIZ will briefly be discussed with the goal of system optimization.
- A brief status of the various world economies and developing countries will be presented with the Author's perception of Global Engineering opportunities from Electrical, Computer Sciences and Telecommunication Engineering viewpoints

Biography: Joseph P. Cool, President and Founder of Cool & Associates was born and raised in the City of Pontiac, Michigan. Cool graduated from the School of Engineering, Oakland University with a B.S. Engineering Sciences degree. Since that time, Cool has successfully worked in 54 countries, been exposed to virtually every culture in the world and has developed an awareness of cultural diversity found throughout industry. Additionally, Cool attended an MBA Program through the University of Northern Colorado. Experienced in management, marketing, engineering and operations of Telecommunication systems worldwide, Cool has also been employed by US Department of Defense, worked with many foreign militaries and was employed as a Telecom Consultant in the Kingdom of Saudi Arabia for 6 years. Previously, he had worked as a Director, Systems Engineering at Harris RF Systems and Comtech Telecommunications – Systems Division. In 1998, he was a member of the Joint US-Saudi Trade Delegation traveling throughout the US. Upon completion of a trip to Bosnia and Latvia in 2004, Cool & Associates is currently developing a "business presence" in Eastern Europe for access to the EU as well as developing access to the GCC. Current efforts include developing a Cultural Tour to Ghana and Nigeria with emphasis on cultural and business opportunities.

Cool has conducted educational programs, speaking engagements including Middle and High School Students, Universities (Engineering and Business Students) and Service organizations (e.g. Rotary, Kiwanis) and business planning functions for individuals and small-medium size businesses and continue to have access to Key Decision makers throughout the world including VIP membership in two International Registries for Executives and Professionals. He has been a Speaker at several Annual International Conference presenting subjects including TRIZ and Directory Assistance/Directory Enquiry and his papers have been published in the International TRIZ Journal.

Evening Schedule:

4:30pm – 5:00pm Registration and Check-In
5:00pm – 5:45pm First half technical sessions, seven parallel sessions for chapter speaker
5:45pm – 6:00pm Vendor exhibition and networking
6:00pm – 6:45pm Second half technical sessions

6:45pm – 7:15pm Vendor exhibition and networking
7:15pm – 8:00pm Buffet Dinner from Park Place Catering
7:30pm – 8:00pm Awards program during dinner
8:00pm – 9:00pm Keynote speaker

Registration: at <http://www.ieee-sem.org>