

IEEE Daytona Section Report March 2007

Section Officers:

Chairman:	Charles R. Husbands
Vice Chairman:	Roger Grubic
Treasure:	Tracy Wichmann
Secretary/Newsletter Editor:	Allen Jusko
Membership Development:	Roger Grubic
Media/PACE Chairman:	Dr. Jane Owen
Life Member Chairman:	Ron Gedney
Awards Chairman:	Dr. Thomas Yang
Student Activities :	Dr. Jianhau Liu

2006 was a successful year.

A. Our section was honored by one of our members, Dr. Al Helfrick was awarded the Florida Council's IEEE "Outstanding Engineering Educator Award"

B. Seven Dinner/Technical Meetings were held during 2006

January Meeting: Mr. Elmer Lee Pettit Jr., "Managing Electrical Power Distribution System Reliability"

February Meeting: Mr. Remo Pillat, "DARPA Grand Challenge"

March Meeting: Tracy Whichmann, "Pictures of Sound"

April Meeting: Kristina Mulaki, "Design of a High Bypass Turbofan Engine"

September Meeting: Charles Husbands, "Iceland's National Fiber Optic Network"

October Meeting: Roger Hoefler, "Debate on the Demise of Planet Pluto"

November Meeting: Bob Gredney. "Reliability of Pb-Free Electronics"

C. Cyber-security Conference

On April 4th, 2006 the Daytona IEEE Section organized a very successful one day seminar on Cyber-security, at Embry-Riddle Aeronautical University, open to the general public. The speakers and papers presented at the conference are listed below:

1. Michael Drum, "Cyber-security Tutorial"
2. FBI Special Agent-Andy Smith, "Cyber Crime-An FBI Priority Mission"
3. Dr. Joohan Lee, "Data Mining Approach to Detect Malicious Codes"
4. William Allen and Gerald Marin, "Detecting Intrusions by Their Effect on the Fractal Dimension of Network Traffic"
5. William Allen, Richard Ford, Lajos Nagy, "N-Version Programming"
6. Attila Ondi and Richard Ford, "Modeling Malcode"

D. Attended the SoutheastCon 2006 in Memphis and the R3 EXCON in Atlanta.

E. Have implemented and maintained a website for the Dayton IEEE Section, to permit the rapid distribution and archiving of information and ideas.

Plans for 2007

Student Activities

A. Provide mentoring support to students in the newly organized BSEE program at Emery-Riddle Aeronautical University where there is a lack of graduate or upper class support.

B. Continue support to the IEEE Student Branch at ERAU

C. Establish a Career Round Table meeting for students at ERAU.

D. Help to technically and financially support projects of the IEEE Student Branch, such as the robot competition at SoutheastCon 2007

Professional Activities

- A. Maintain a strong Dinner/Technical Program to provide topics of General Engineering Interest.
- B. Establish a series of high quality technical presentations, at Emory-Riddle Aeronautical University, to provide continual educational support to the working engineers in the community.
- C. Continue publication of the Dayton Section's Newsletter the "Sparks".
- D. Continue to maintain and operate the Daytona Section Website.

Our Challenges are:

- A. Increasing and upgrading our IEEE section membership
- B. Finding good technical programs for section meetings
- C. Increase meeting attendance and broaden the base of our section leadership.
- D. Increase activities for our life members

Submitted by,
Charles R. Husbands
Daytona IEEE Section Chairman

Email: chusbands@ieee.org
Phone: (386) 760-7163