



SPARKS

Daytona Section Newsletter
February 2012

FROM THE HIGH CHAIR

During the week of Jan. 30th, the IEEE Industry Applications Society (IAS) held its Electrical Safety Workshop (ESW) at the Daytona Hilton. ESW is a premier international forum aimed at enabling the change in the electrical safety culture and pushing the envelope on preventing workplace injuries from electrical hazards. We are glad that IAS chose Daytona Beach as the venue for this important event, and we welcomed about 400 participants at the workshop this year. Volunteers from our section worked diligently at the section booth and ESW registration desk in support of the workshop. We especially appreciate the help of student volunteers from the Bethune-Cookman University IEEE student chapter. As a newly established student chapter, BCU students are really enthusiastic about participating in IEEE events and supporting the activities of our section!

During the workshop, Daytona section organized a Behind-the-Scenes Guided Tour of Daytona International Speedway on the mornings of January 30 and 31. More than 50 people took the tour, including our section's life members. The tour offered a behind the scenes look at the Drivers Meeting Room, Gatorade Victory Lane, The NASCAR Sprint Cup Garages, Tech Inspection, etc. Participants also learned about the electrical systems at the World Center of Racing. We also organized an Ecotour on the Indian River. Participants learned about the abundant marine life in Indian River Lagoon and experienced firsthand the natural beauty of this Florida treasure.

Once again, I would like to recognize the outstanding work of Mr. Ron Gedney as our liaison to ESW. Thanks to his devotion and hard work, we greatly contributed to the success of this important event!

On February 11, the annual Tomoka Regional Science Fair will be held at Atlantic High School in Port Orange. As before, our section will select two students, one from the junior division and one from the senior division, as this year's IEEE special award winners.

February 19-25 is the National Engineers week. ERAU will again host a series of events in celebration of the EWeek. You are welcome to participate in these events. More information is provided in this newsletter, or contact our Publicity/Media chair Jeanette Barott.

If you plan to attend this year's SouthEastCon in Orlando (March 15-18), please register as soon as possible. The early registration rates are: \$295 for professional members, and \$85 for student members, life members, and spouses. For detailed information about the conference, go to <http://www.southeastcon2012.org/index.html>.

Last but not the least, if you have not done so, please renew your IEEE membership for 2012 at your earliest convenience. Thank you for being part of this global professional organization!

Thomas Yang, Ph.D.

FEBRUARY PROGRAM

NOTE: Due to a family emergency, Cathy was unable to attend our meeting in January.

VOLUSIA COUNTY HOSPICE OPERATIONS

Halifax Health Center Hospice Liaison Nurse Cathy Gallagher, RN will present an overview of the Volusia County Hospice operations, how it is accessed, what it does, its staff and equipment and its record of success. This includes not just how it interfaces with the patient but how it works with and relates to the family and loved ones.

OUR SPEAKER

Cathy Gallagher was born and educated in NY State. In 1976 she came to Florida to attend Flagler College in St. Augustine. When she graduated she decided to stay in Florida because it is nice and warm. In 1999 she decided to become a Registered Nurse. While in Nursing School (1996-1999) she worked as a CNA for Hospice. After graduating from Nursing School, she worked for 2 years as an RN in the Oncology Dept of Halifax Health. In 2001 she rejoined the Hospice Program at Halifax Health as an Admissions Nurse.

For the past nine years, she has worked as a Community access Liaison which allows her to reach out and teach others about the benefits and helpfulness of hospice. Cathy is certified in hospice and palliative care nursing.

Engineers Week is Coming!

E-Week Banquet - You Don't Want to Miss out on the Surprises!

Last day to purchase tickets February 13th

Thursday, February 23rd

6:30 p.m. Student Center

Guest Speaker: Scott Mangrum

Keynote Speaker

Dr. Kevin Bowcutt

Tuesday, February 21st

6:00 p.m. IC Aud.

Saturday, February 25th we will be hosting Engineers Week at the Museum of Arts and Science from 10-2 any depts. or students groups who have not contacted me already and may be interested in setting up a both or interactive activity, please contact me.

Watch for the Full Calendar of Events

We need all of your help to make this Engineers Week a Success!

Thank you,
Kathleen DiLeo
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TALES FROM THE OLD PROFESSOR

ON LEARNING TO FLY

When I was a young lad, I had a burning desire to fly. At that time, New Jersey still had small local airports where World War II pilots exercised their Army Air Corps skills by weekend flying in aging, inexpensive aircraft. The real workhorse of the local airport, and a name synonymous with recreational flying, was the Piper Cub.

A Cub would whisk a pilot and one passenger along at 60 or 70 miles an hour on five gallons of gasoline an hour. The Cub was a "fabric" aircraft which meant the fuselage and wings were covered with cotton, stretched tightly over a steel and wood frame. It was like flying a large ironing board. They were yellow. All Piper Cubs were yellow. The one I took my flying lessons in was yellow.

The Cub had no electricity. There was no radio, no lights, and, of course, no starter. As I sat in the plane ready for my first lesson, I held the brakes and checked the magneto switch. Brakes? My instructor shouts.....Brakes!, I reply. Magneto?.....magneto! A pull of the wooden propeller by the instructor, the engine sputtered to life and we were off.

The Cub is a tail dragger. This is an aircraft that has two rubber-tired wheels just behind the engine and a small castor-like thing in the rear; a wheel so small that there is no wonder it's called a tail "dragger". When the tail is down, the view from the windshield is of the sun and clouds. To taxi the aircraft, I am informed by my instructor, to weave from left to right so that I can get a glimpse of what is in front of me from the side windows. "Be careful of other aircraft, pedestrians, the tractor mowing the grass and cows", I am told. Yes, cows! There are holes in the fence and the cows from the neighboring farm periodically graze on the runway.

The Cub is the epitome of Spartan flying. The seats are canvass. No carpeting, no padding, no soundproofing; even the gas gauge was a cork at the end of a rod which protruded from the gas cap, directly in front of the wind screen. I often wondered what would happen if the rod got stuck in the cap leaving the cork floating in air rather than gasoline. Instructors have an answer for everything. Simply wobble the wings to get the fuel sloshing around and see if the cork bounces. But of course! Why clutter up the airplane with silly things like a gas gauge?

I remember on a windy day, I was out for a short hop and as I lifted off I was heading into a stiff breeze. The Cub climbs at 45 miles per hour and the headwind was approaching that. I looked down and the Cub was at mid field and I was about 100 feet above the ground. About a minute later I looked down and the Cub had just passed the end of the runway and I was about 400 feet above the ground.

Then it occurred to me; if I go into the wind, I'm not going anywhere. If I go with the wind I'm not coming back. I decided to go around the airport, land and put the airplane back in the parking area.

Part of learning to fly is cross country training. During one trip I managed to get lost. Nothing on the ground fit the chart I was so carefully following. The chart was folded to expose only the area I was flying. I must have gone further east than the visible section of the chart. After unfolding the chart, much to my horror I had flown off the chart and I had committed a cardinal sin by not bringing adjacent charts. I was lost.

What was really distressing was McGuire Air Force Base was in the vicinity and that meant restricted airspace. I did not relish the idea of the local headlines, "**Piper Cub Shot Down by Jet Fighters**".

Fortunately, right below me was an airport. I landed on the short grass strip and taxied to a small dilapidated building. Inside there was an older man sitting in an office chair with his feet on a desk; very much asleep. As the door closed he awakened and greeted me with a cheery, "how can I help you?".

"I am going to Morristown Airport and I am not sure how to get there."

"Take a left at the end of the runway, go about 3 miles and take the Turnpike north,". Oh no! He thinks I have a car, now I am really going to be embarrassed. "But I am flying there", I said expecting great guffawing on his part. I was not disappointed. With a laugh and a wave towards the runway he said, "same way".

We were on our way; the yellow ironing board and me, traveling north on the Turnpike as I had done many times before in my car but this time I wasn't paying tolls. I got off at the RT 287 exit and followed it to Morristown Municipal Airport, where I bought a tank of fuel for the cork to float in and the missing chart.

Al Helfrick, Ph.D.

CALENDER OF EVENTS

February 19th-25th Engineers Week, ERAU

March 15th-18th 2012- Southeast Con, Orlando, and in Jacksonville 2013

EDITORS NOTES

The **SPARKS** newsletter is also available on our website. The website address is shown in the Section information box to the right.

Our neighboring Sections in Melbourne and Orlando also sponsor activities and meetings that also may be of interest to our members. We encourage you to visit their websites.

Region 3 website

<http://www.ewh.ieee.org/reg/3/>

Melbourne Section website

www.ieeemelbourne.org

Orlando Section website

www.ieee.org/orlando

Website address for the Daytona Section

<http://www.ieee.org/go/daytona>

FUTURE MEETING DATES

The remaining meeting dates for the spring session are Thursday March 22nd, and Tuesday April 24th.

NOTE – This months meeting is on [TUESDAY](#) February 28th.

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FEBRUARY 2012 MEETING

Tuesday February 28th at the Halifax River Yacht Club
331 South Beach Street, Daytona Beach, Florida 32114
Just south of the Fire Station at the corner of Beach and Orange

AGENDA

6:30 PM Cocktails

7:00 PM Dinner

8:00 PM Program

OUR SPEAKER – Cathy Gallagher, RN

TOPIC– Volusia County Hospice Operations

February Dinner Menu

Beef Stroganoff with egg noodles	{All Entrees served with
Chicken Kiev with wild rice	{Vegetable du jour,
Moscow Salmon (Pan seared w/ lemon pepper), with wild rice	{Roll and Butter, Garden Salad, {Coffee/Tea

**Unless noted, dinner entrées are \$18.00 each. Students \$10.00 each
A Veggie plate is available on request for \$10**

Please contact AI Jusko with your dinner selections or for program information. Dinner selections must be in by Monday the 27th at noon so the club has time to order and prepare

Allan Jusko SPARKS Editor 386-671-3706 a.jusko@ieee.org

IMPORTANT: If you make dinner reservations and are unable to attend, call at least 12 hours prior to the meeting to cancel. The Daytona Section is charged for all dinners ordered.
