In this SWE Space Coast Newsletter Edition:

- Our first section meeting will be Sept 9th in the Duran Golf Club in Viera. RSVP by Sept 5!
- The SWE National Conference is coming up! Nov 6-8, 2008 in Baltimore. Registration is open!
- New newsletter sections just for you! Learn eco friendly living in ‘Go Green’, send us your travel pics for our new travel section ‘Travel Bug’, and learn more engineering achievements in ‘This Month in Engineering History’.
- Discover the top 10 jobs for the class of 2008
- Learn 3 tips for career growth.
- A delicious burger recipe in ‘Food For Thought’
- Plus more!!!
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Check the website (http://www.swe-sc.org) for the latest details and update
Newsletter Editor’s Note

Dear SWE-SC Members,

Welcome back! Another great year has begun! And another great newsletter has arrived to you. This year the SWE-SC Newsletter is better than ever. We have incorporated new features such as This Month in Engineering History, where we will highlight a different engineering innovation. Then we have Go Green, a new article geared to show you tips for living green and energy conservation. Our ‘Meet & Greet’ section has been such a hit, that we want to know more about our members and what they’re doing. So we introduce Travel Bug, our newest section made just for you. We want to know what you did this summer. Send us your favorite picture with a caption of the content & place and it could be featured in our travel section. Maybe you went hiking in the Rockies, relaxed at the beach, sailed on a cruise, rode on a safari, or took a trip to visit the family. Now’s your chance to show off those great pics! Camera shy? No problem! Send us your best scenic shots. We’d love to see them! Please submit photos to me at ivette.rivera-1@nasa.gov. We need your submittals, so don’t be shy! We look forward to another great year of events and activities. Our SWE Calendar is full of great stuff…just for you! Take advantage of all SWE has to offer! Enjoy!!!

Ivette Rivera Aponte
SWE-SC Newsletter Editor
Welcome to the 2009 Fiscal Year for the Space Coast Section of the Society of Women Engineer's! The officers and I have spent the summer making plans for a great year that combines meetings with technical presentations, outreach events, networking events, and book clubs. Each event offers different opportunities for networking and expanding your horizons. We hope you'll be able to join us for all of them!

Last year was an exceptional year under the leadership of Kathy Whitcomb. We were very pleased with our new event targeted for older girls (7th to 10th grade) called WOW! That's Engineering. It was held for the first time last year, and has been scheduled for October 11th of this year. Jennifer Bailey, one of our Section Representative’s this year, has volunteered to chair this event. She'll be looking for volunteers to lead or assist with many of the hand-on modules we have for these young women. IGEW (Introduce Girls to Engineering Workshop) is now devoted completely to the younger girls in grades 3 - 6. It is our flagship event, and we stop accepting registrations at 450 girls. It will be held in January again, the exact date to follow. Kungun Mathur chaired our Professional Development Event last year, and we had an exceptional event with excellent attendance. This event serves as a fundraiser for our section, and helps generate the funds for the many of the things we do, including scholarships, member appreciation events and more. Thank you Kungun for your exceptional efforts on this event!

We are happy to have nearly all of our Committee Chairs filled with enthusiastic volunteers. We have just a few openings remaining for an Awards Banquet Chair, Press Liaison, and Membership Recruitment Events and Recognition. If you’re interested in any of these positions, please let us know!

Our first meeting will feature Scott Colloredo speaking on the Constellation Program at Duran Country Club on September 9th. Registration for this event will be open shortly. This should be an interesting evening you won’t want to miss. I look forward to seeing you there!

Lori McPherson
Society of Women Engineers
Space Coast Section
presents:

**Overview of Constellation Program**

**Speaker:** Scott Colloredo

- **When:** Tuesday, September 9
- **Where:** Duran Golf Club,
  7032 Stadium Parkway • Viera, FL 32940
- **Time:** 6:00 PM – Networking
  6:30 PM – Buffet dinner
  7:00 PM – Speaker
- **Cost:** Members/Guests - $25
  SWE Students - $12.50
- **RSVP:** Friday, September 5

Buffet Includes: Mixed Green Salad, Pasta Fajoli Soup, Penne Pasta with 3 Sauces, Chicken Marsala, Italian Sausage and Peppers, Seasonal Vegetables, Assorted Cookies and Bundt Cake, Coffee, Tea, Cash Bar

For reservation & payment information, visit [http://www.swe-sc.org/](http://www.swe-sc.org/)
2008 SWE National Conference
Baltimore Convention Center, Baltimore, MD
November 06, 2008 - November 08, 2008

Registration is now open!

Call 1-877-SWE-INFO or visit www.swe.org for more information.
For girls in 7th to 10th grades

Girls experience the creativity and innovation of engineering and technology. They meet women engineers and technologists and hear first-hand about these exciting careers. Girls participate in 5 hands on projects.

Volunteers needed!

To register to be a volunteer for WOW, visit www.swe-sc.org/WOW/volunteers

We need your old small appliances for our Tool Time workshop. Please contact wow@swe-sc.org if you have an appliance you’d like to donate.

Location: Bayside High School, 1901 DeGroodt Road SW, Palm Bay
Date: Saturday, October 11, 2008 Time: 8:30 - 3:30

www.swe-sc.org/WOW for more info
SWE-SC Book Club

Book Club Meeting August 17th: Suzanne Plantec hosted the latest SWE-SC Book Club meeting on Sunday August 17th and her place in Viera. The book was The 10 Year Nap by Meg Wolitzer. Everyone was in agreement that the book was rather slow, but we still all enjoyed an interesting discussion on the characters in the novel. The group discussed several possibilities for the next selection, and decided on "Me & Emma" by Elizabeth Flock. This book is an incredible read, but does have domestic abuse as an underlying theme. The group felt it would be beneficial if we took a donation for a women's shelter at the book club meeting. The next meeting will be on Sunday, October 5 at Kathy Whitcomb's house on Merritt Island. You don't want to miss this exciting book - pick up your copy now and we'll see you in October!

The title characters in Me & Emma are very nearly photographic opposites—8-year-old Carrie, the raven-haired narrator, is timid and introverted, while her little sister Emma is a tow-headed powerhouse with no sense of fear. The girls live in a terrible situation: they depend on an unstable mother that has never recovered from her husband's murder, their stepfather beats them regularly, and they must forage on their own for food. Stop here and you have a story told many times before, as fiction and nonfiction in tales like Ellen Foster, or I Know Why the Caged Bird Sings—stories in which a young girl reveals the horrors of her childhood. Me & Emma differentiates itself with a spectacular finish, shocking the reader and turning the entire story on its head. Through several twists and turns the reader learns that things are not quite the way our narrator led us to believe and everything crescendos in a way that (like all good thrillers) immediately makes you want to go back and read the whole book again from the start. --Victoria Griffith
Save the Dates!!! 2008-2010 National Conference Schedule is here!

2008 National Conference Nov. 6 - 8, 2008 Baltimore, MD
2009 National Conference Oct. 15 - 17, 2009 Long Beach, CA
2010 National Conference Nov. 4 - 6, 2010 Orlando, FL

SWE National President visits SWE-SC council

The attached photo was taken after dinner with the SWE National President, Virginia Connolly. She was in town to go out on an overnight submarine ride provided by the Navy.

From left to right, Judy Kersey, Kathy Whitcomb, Lori McPherson (SWE-SC pres), Kam Kersey, Virginia Connolly (holding the SWE Bear) and Kathleen Harer. Carol Craig was also at dinner but had to leave before the photo opportunity.
FIRST Robotics Scholarship Recipient

This photo was taken at the FIRST Robotics Championship in Atlanta this past April. It features the SWE members who were judges at the event presenting a scholarship from the Space Coast Section to Catherine Coleman. Congratulations Catherine!

The people in the photos are (left to right): Marie LaPlante, Houston Section; Michele Fitzpatrick, New England Shoreline Section; Erik Halleus, Florida FIRST Chair; Michael Coleman, Chair of Florida FIRST Tech Challenge and father of Catherine; Catherine Coleman, Scholarship Recipient; Greg Hale, VP Disney Corporation; Kathleen Harer, Space Coast Section and Co-Chair, Florida FIRST Regional Competition; Nancy Hunley, Atlanta Section
Engineering Crossword Puzzle

ACROSS
1. RF connector & cable manufacturer in Suwon, Korea (and an RF Cafe advertiser)
9. 2-element, 1/2 wavelength antenna fed at the center
11. Ham’s code for "Your net frequency is High."
13. Area on a shaft for accommodating a setscrew
14. Type of logic gate
16. Fast Fourier Transform
18. Analog-to-Digital
19. Unit of weight
21. Chemical symbol for silver
23. Cell phone manufacturer
26. Chemical symbol for radon
27. Radio Amateurs of Canada
29. Galilean moon
30. Pure carrier, abbr.
31. Basis for decibels, abbr.
32. Five-bit digital code used in teleprinter application
34. One bit at a time
36. Unix, Linux or Windows
37. Between-series connectors
40. Metal parts engineer, abbr.
41. Current-voltage phase mnemonic
42. Chemical symbol for lithium
43. Half of DSB
45. Stock symbol for Harris Communications
46. Adds two or more inputs
48. International Telecommunications Union
49. "Shooting star"
51. PCB layout & fab company in Boynton Beach, FL

DOWN
2. Opposite of O.D.
3. Image file format name extension
4. RF design tool vendor in Espoo, Finland
5. Terminations
6. ___-AZIMUTH telescope mount
7. Chemical symbol for neon
8. Ham’s code for "Net is Free (not controlled)."
10. Charged particle
12. Gary Breed’s fine magazine on RF & microwaves topics, abbr.
14. Negation prefix
15. Its chemical symbol is C
17. Vacuum tube with three control grids
19. Tall structures for antennas
20. They have units of degrees or radians
22. Type of high frequency semiconductor, abbr.
24. Greek letter
25. Society of Civil and Structural Engineers
26. Move from cell to cell
28. Chemical symbol for copper
31. Chemical symbol for lithium
33. Type of data conversion device, abbr., pl.
35. Receiver power level circuitry, abbr.
38. The sun’s most distant <former> planet
39. Software device for tracking elapsed time
41. International Reply Coupon
44. Unit of heat
46. Adjust a pot
47. System On Chip
49. 1/000 of an amp
50. Chemical symbol for radium
Meet & Greet

Name: Elizabeth Maas

Workplace... Patrick Air Force Base

Profession... Air Force Officer

Work Description... I am currently the Deputy Branch Chief for the Environmental Sciences Branch. I receive, prioritize, delegate and respond to taskers both internally and externally. Additionally, I lead a team of chemical engineers, to include government employees and contractors, to complete our daily requirements. Being in the Air Force allows me to experience new opportunities at every corner. My previous job was in California working at the Aerophysics Branch at the Air Force Research Laboratory designing and building an experiment to simulate the cooling channels within rocket engine nozzles. Amazing engineering and science.

How many years as a SWE member... I have been a member of SWE since I attended college at Arizona State University starting in the late 90s.

Tell us a little about yourself... I have been in the Air Force for over 6 years now. After a three year assignment in California, and two more years working at Patrick AFB, I had the opportunity to train with an organization in DC and deployment to Iraq. I just recently returned after being in Iraq for four months and out of the area for a year. Now that I am back and settled in I have a chance to get back to what I love: cooking, exercising, and reading books. I am also recently engaged and have started the “wonderful” process of planning a wedding long distance!!

Message to SWE Members... Enjoy life and make something out of every day you are alive.
The SWE-SC Newsletter presents:

New!!!

Travel Bug

Our newest section where your pictures are the stars!

We want to know where our members have been. Where are they going? What fun things are they up to? Send us your pictures along with a caption of picture content and your picture could be featured in a future edition of Travel Bug. To shy to submit a pic of yourself? Show us your family or a scenic shot! So take out those cameras and start snapping away!

Send your pictures to Ivette @ ivette.rivera-1@nasa.gov
Travel Bug

What did you do this summer? Send us your pictures!

Ivette Rivera Aponte & her husband, Abel, went on a mission trip to Africa and got to participate in an elephant ride safari in Zimbabwe.
This Month in Engineering History

September 1976

The first videocassettes for the home market appeared in the fall of 1975. Later nicknamed Beta, these first cassettes were based on Sony’s U-matic technology that was developed for the professional market. The Betamax line of cassettes were alone in the market until JVC Americas Corp. came out with the competing VHS format in 1976, setting off a videotape format war. VHS finally won and remains the standard for home videotape. When videotapes were first released, Hollywood was petrified that video would eat into theater profits. In defense, movie studios priced feature films at $100 or more, making the videotapes affordable only to rental stores. In time, the studios discovered the tape market wouldn’t suppress movie tickets, so studios priced tapes at the consumer friendly $20 to $30 and found a major new revenue stream.
Engineering Marvels

● The Three Gorges Dam

China has undertaken the greatest project since the erection of the Great Wall and the Grand Canal — the Three Gorges Dam project. The Three Gorges Dam will be the largest hydropower station and dam in the world, with a 1.2 mile stretch of concrete and a 370 mile-long reservoir and 525 feet deep. This project will cost more than virtually any other single construction project in history.

The principal advantage of the project is to generate power to keep pace with China's economic growth. The dam will relieve the danger of flooding. In addition, navigation capacities on the river will be improved, thus, 10,000 tons fleets can make direct trips. Another advantage of the dam is to reduce emissions of sulfur dioxide and carbon dioxide; generating electricity equal to about 40 million tons of coal. Social costs of resettlement and environmental damage are enormous. Chinese officials estimate that the reservoir will partially or completely inundate 2 cities, 11 counties, 140 towns, 326 townships, and 1351 villages.

Fast Facts:
- The dam’s capacity will generate 17 million kilowatts, which will top that of the largest dam currently operating by 40%.
- It will cost (in 1990 prices) as estimated RMB 57 billion ($ 10.57 billion).
- The full-scale construction is currently underway and the projected completion date is in the year 2010.
- Once completed, the dam will be 185 meters high and store 39.3 billion cubic meters of water.
Once summer is in sight, students everywhere spend less time outlining their research papers and more time planning their summer vacations. The annual exception is, of course, the class of graduating seniors, whose commencement pushes them into the mythic "real world." They spend the last few weeks of the semester ensuring they can walk across the stage and deciding what they will do that next day.

The realization that this semester's final exams are their last and summer breaks are things of the past is both exciting and nerve-racking. After all, once they start job hunting, they find out how valuable their degrees which took a lot of money and the last four years of their lives are to employers. This summer is a major milestone in their lives.

Luckily, employers are ready to hire and looking to woo them with signing bonuses and higher starting salaries than in years past, according to the National Association of Colleges and Employees. Among the most sought-after graduates are those who majored in business, finance and information technology.

We analyzed this information and data from the Bureau of Labor Statistics on the industries doing the most hiring and expecting the most job growth. Here are 10 of the best jobs for the graduating class of 2008:

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Top 10 Jobs for the Class of 2008 (cont.)

1. Financial analyst  
   **Major:** Business administration  
   **Median annual salary:** $66,590*  
   **Projected job growth:** 34 percent  
   **Jobs created:** 75,000

2. Computer systems analysts  
   **Major:** Information sciences and systems  
   **Median annual salary:** $69,760  
   **Projected job growth:** 29 percent  
   **Jobs created:** 146,000

3. Computer systems software engineers  
   **Major:** Computer science  
   **Median annual salary:** $85,370  
   **Projected job growth:** 28 percent  
   **Jobs created:** 99,000

4. Accountants  
   **Major:** Accounting  
   **Median annual salary:** $54,630  
   **Projected job growth:** 18 percent  
   **Jobs created:** 226,000

5. Civil engineers  
   **Major:** Engineering  
   **Median annual salary:** $68,600  
   **Projected job growth:** 18 percent  
   **Jobs created:** 46,000

6. Marketing managers  
   **Major:** Advertising or journalism  
   **Median annual salary:** $98,720  
   **Projected job growth:** 14 percent  
   **Jobs created:** 24,000

7. Financial managers  
   **Major:** Finance  
   **Median annual salary:** $90,970  
   **Projected job growth:** 13 percent  
   **Jobs created:** 64,000

8. Chemical engineers  
   **Major:** Engineering  
   **Median annual salary:** $78,860  
   **Projected job growth:** 8 percent  
   **Jobs created:** 2,400

9. Electrical engineers  
   **Major:** Engineering  
   **Median annual salary:** $75,930  
   **Projected job growth:** 6 percent  
   **Jobs created:** 9,600

10. Mechanical engineers  
    **Major:** Engineering  
    **Median annual salary:** $69,850  
    **Projected job growth:** 4 percent  
    **Jobs created:** 9,400

*Salary, job growth and job creation information is based on data from the Bureau of Labor Statistics.

Nathan Lippe is an expert in the post-college job search and oversees CBcampus.com, a site that helps college students and recent college graduates find internships, part-time jobs and after-graduation careers.
3 Tips for Career Growth to Survive Corporate Change

The biggest difference between today's employment world and that of our fathers' is the rapid pace of corporate change. Expectations of company stability and long lasting employment are a thing of the past. If one isn't tuned into the signals of corporate change it can mean an unexpected layoff and months of unemployment and job searching. Do you have a career management plan to ensure your career growth in times of corporate chaos?

To prevent career disaster, live by these three rules of career management:

1. Expect Change
2. Adjust quickly to change
3. Build a strong professional network in good times
3 Tips for Career Growth to Survive Corporate Change (cont.)

1. Expect change

Change in the work place is far less traumatic when it is expected as the norm. One of the most important career management skills is the ability to detect signs of corporate change. For instance:

* Rumors of corporate merger or takeover
* Corporate profit levels spiraling downward
* No end-of-year bonuses given
* Hints of layoffs to trim the budget
* Upper management suddenly resigning
* Your peers jumping ship to the competition

Don't get caught off guard by holding on to a false sense of security. Those who fear change trust corporate loyalty rather than face the reality of their precarious position in the corporate food chain. Expect change and keep your eyes and ears open—or you could be the last in line when it's time to find new career opportunities.

Don't wait for change to strike. While your job is secure and your work environment is stable, take steps to keep your skills highly desirable in the job market. For starters:

* Stay current with technology trends of your industry
* Get certified if appropriate
* Keep your resume current at all times
* Be ready to interview at a moment's notice

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3 Tips for Career Growth to Survive Corporate Change (cont.)

2. Adjust quickly to change

Your ability to keep your career momentum building in the midst of corporate chaos depends on your skill at adjusting quickly to change. First, don't over analyze your dilemma. Too often valuable time is wasted trying to figure out ways to make a bad situation work. Second rule, don't take it personally, or you won't be able to plan your exit strategy clearly. Third, take action as soon as possible.

If your resume is kept current at all times you will be ahead of the pack when others consider moving on as well. Your resume should be updated every six months. For quick updating keep an ongoing record of your accomplishments as you overcome work challenges.

Maintaining confidentiality during a job search while still employed is a challenge that requires discretion and level headedness. Ideally, no one in your company should even suspect that you are looking for other employment. Resist the urge to speak to coworkers about your decision for action. Not only do loose lips sink ships, but why put ideas in the minds of others who may become your interview competition? Keep your regular work hours and try to schedule interviews during off-work time. Avoid posting your resume online where your employer may find it.

Continued on next slide
3 Tips for Career Growth to Survive Corporate Change (cont.)

3. Build a strong professional network in good times.

One thing that hasn't changed over the decades is the fact that a majority of people still get new positions faster through networking. What used to be called the “good ol' boy system” is as active in the job market as ever. Technology will never replace the need to be connected to a vast network of people who can help you find new career opportunities quickly. The problem is that most people ignore their network until they need it. Bad idea. If you haven't kept in touch with former coworkers how will you know how to find them when you need them?

If your professional network is slim to none, get working on it right now. There are many great venues for building your network: professional associations, college alumni groups and former colleagues to name a few. Take time to meet with non-work people on a regular basis. Get to know them as friends and develop relationships built around mutual interests, friendship and trust. Make relationship building your lifelong habit and you'll never be without help when you need to make a career change.

More than ever, proactive career management is essential to professional growth. Keep these rules of surviving corporate change as the building blocks of your career management plan and you'll stay in control of your professional growth and income potential.

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Deborah Walker, CCMC is a career coach helping job seekers compete in the toughest job markets. Her clients gain top performing skills in resume writing, interview preparation and salary negotiation. Learn more about Deborah Walker, career coach at: http://www.AlphaAdvantage.com
Go Green

Be Green at Work

Green living isn't just for home. You can follow a few simple suggestions and make your workplace more environmentally friendly, as well.

• **Reduce paper.** When printing, use both sides of a piece of paper in order to conserve. Keep a scrap paper pile for misprinted or unnecessary documents to either print on or write on. Try to reuse envelopes as many times as possible to cut down on waste. Also, consider purchasing a mesh or cloth coffee filter as opposed to disposable paper filters.

• **Reduce your waste.** Bring your own coffee cup or water bottle to work to avoid buying Styrofoam or paper cups and throwing them away every day. Also, bring your lunch in a reusable container rather than a disposable paper bag. Lastly, make sure your company has an easy-to-use recycling program and that everyone is educated on how it works.

• **Be conscious of your supplies.** Some office supplies are better for the environment than others; for example, try to use paperclips rather than adhesive tape, and use crayons or colored pencils instead of solvent-based markers. Consider refillable pens and mechanical pencils rather than disposable ones.

http://greenliving.lifetips.com/
Don’t Skip Meals to Lose Weight

When you skip meals, two things happen. First, your metabolism slows down. Second, since your brain thinks that you are starving it will tell your body to store any food that it does receive in the form of fat. In other words, skipping meals = weight gain. The best thing you can do for your body, no matter what your goals are, is to begin each day with breakfast and eat a supportive meal or snack every 3 hours. This in turn will fuel your metabolism, provide you with an abundance of energy and allow your body to burn more fat 24-7.
**Recipe Summary**
Difficulty: Easy  
Prep Time: 15 minutes  
Cook Time: 8 minutes  
Yield: 4 servings

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**Food for Thought**

**“Cuban-Style Burgers on a Grill”**

2 pounds ground chuck  
Salt and freshly ground black pepper  
1/2 cup best-quality mayonnaise  
3 cloves roasted garlic, pureed  
1/4 cup Dijon mustard  
4 soft, classic hamburger buns  
8 slices thinly sliced Swiss cheese  
4 slices thinly sliced smoked ham  
2 dill pickles, sliced 1/4-inch thick

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Preheat the grill to high. Form the meat into 4 (1/4-inch thick) burgers. Season the meat with salt and pepper on both sides. Grill for 2 to 3 minutes on both sides for medium doneness. When the burgers are done, remove from the heat and reduce heat to medium-low.

Meanwhile, combine the mayonnaise and roasted garlic in a small bowl and season with salt and pepper, to taste. **Spread** both sides of each bun with mayonnaise and mustard. Place a slice of cheese on the bottom portion of each bun, place the burger on top of the cheese, then top the cheese with a slice of ham and another slice of cheese, and finally, the pickle slices. Place the tops of the bun over the pickles, wrap the burgers in aluminum foil, and place them on the grill. Using a heavy pan or a brick wrapped in foil, press down on the burgers for about 30 seconds to 1 minute. Lower the lid on the grill and continue grilling for 1 to 2 minutes, or until the cheese has melted and the bun has become pressed and firm.
SPACE COAST SECTION SWE MISSION

Our mission is to inform the community of opportunities open to women in engineering and to encourage women to enter and grow in engineering and the sciences.

Society of Women Engineers
Space Coast Section
P. O. Box 1297
Cape Canaveral, Fl 32920