

# WOW!

# That's Engineering!

## Girls in 7<sup>th</sup> to 10<sup>th</sup> grades

Be part of *Wow! That's Engineering!*

- Experience the creativity and innovation of engineering and technology.
- Meet women engineers and technologists and hear first-hand about these exciting careers.
- Participate in 5 hands on projects listed below.

**Location:** Bayside High School, 1901 DeGroot Road SW, Palm Bay

**Date:** Saturday, October 8, 2011 **Time:** 9:00am - 3:30pm

**Cost:** \$25.00 including lunch, drinks, snack, shirt, supplies

Robotics

Electronics

Structural Design

Design Engineering

Chemical Engineering

and more

Title	Description
1A. Design a Dessert	Find out what a design engineer does as you design and construct a dessert.
1B. Tool Time	Hands-on learning about the use of different tools and what's inside small electrical appliances.
1C. Making a Pop Fly	Build a catapult to see who can launch and catch a ping pong ball.
1D. Making Cosmetics	Become a chemical or manufacturing engineer while you make cosmetics or other body products.
1E. Nanotechnology	Experiment with a new field of science – nanotechnology.
1F. Cryogenic Magic	Learn about the magical properties of cryogenic fluids.
1G. Duct Tape Creations	Engineering comes alive with handmade creations that can be transformed from one thing to another all using duct tape while you make wallets and other creations.
1H. CSI	Become a Crime Scene Investigator. Learn how to lift and save a finger print with special finger print powder and match it to find the "culprit." Then create dental or shoe prints for your group and learn how to identify the suspect.
1I. Programming Robots	Learn about robots and try your hand at programming a robot to complete an obstacle course.
1J. Design a Lunar Lander	Can you design and build a lunar lander that will protect your "marshmallow" astronauts?
1K. Thermopolymers	Learn the unique properties of polymers and identify what types of materials can be recycled.
1L. Heavy Lifting	We Challenge You To...design and build a crane and see how heavy a load it can lift.



Society of Women Engineers

To register, go to our website at [www.swe-sc.org/WOW](http://www.swe-sc.org/WOW)

The Society of Women Engineers, Space Coast Section Presents:

# WOW! That's Engineering

**REGISTRATION FORM:** Pre-registration is Required and postmarked by Sept. 28, 2011.

**REGISTRATION INFORMATION:**

Name \_\_\_\_\_ Phone \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_

School \_\_\_\_\_ Grade \_\_\_\_\_ Email \_\_\_\_\_

Registered on-line and lost form: \_\_\_ YES \_\_\_ NO TShirt Size: Small Med Large XL  
Adult sizes

LUNCH SELECTION: (Check one) \_\_\_\_\_ Cheese Pizza \_\_\_\_\_ Pepperoni Pizza \_\_\_\_\_ None

**CHOOSE YOUR MODULES:** (Choose 8 in order of preference from the list

- |         |         |
|---------|---------|
| 1 _____ | 5 _____ |
| 2 _____ | 6 _____ |
| 3 _____ | 7 _____ |
| 4 _____ | 8 _____ |

Note: Girls -- If you wish to be scheduled with a "buddy", please print her name on the line to the right: \_\_\_\_\_  
(Both of you must register together and select the same modules)

**PARENTAL CONSENTS AND REQUIRED INFORMATION: (Required for student participation)**

I, (print parent / guardian name) \_\_\_\_\_, the parent or guardian of the child listed above, grant permission for my child to attend the WOW! That's Engineering Program.

I grant permission for my child to appear in photographs or videotapes while participating in the SWE sponsored WOW! That's Engineering Program activities that may be published by the Society of Women Engineers in video form, hard copy publications and/or on a SWE Website or other publications promoting SWE programs.

Required: TWO emergency contact names and phone numbers \_\_\_\_\_

Required: List medications being taken: \_\_\_\_\_ List allergies: \_\_\_\_\_

**REGISTRATION AND PAYMENT INFORMATION: (Registration is not complete until payment is received.)**

**\$25.00 per person.** This fee covers materials and lunch, drinks, snack and shirt. Please copy this form for each attendee and complete the **Registration Information** section at the top of each page. Payment by check or money order only, made out to **SWE Space Coast Section.**

Payment amount enclosed: \_\_\_\_\_

**Parent / Guardian signature and date:** \_\_\_\_\_

**Mail this Form & Payment to: SWE, Space Coast Section, P. O. Box 783, Cape Canaveral, FL 32920**

Questions about this workshop? Need a tuition waiver? Please call 321-783-4644 (after 10 am) or email [WOW@swe-sc.org](mailto:WOW@swe-sc.org)

To register on-line or for more information, visit our website [www.swe-sc.org/WOW](http://www.swe-sc.org/WOW)

**WOW! That's Engineering Program – Sat. 10/8/11 9:00am-3:30pm Bayside High School, Palm Bay**