



Women in STEM Career Day 2020

Newton *FIRST* Varsity Robotics Team & TSA female leadership would like to offer a valuable learning opportunity for area Sussex County high school freshman girls. We invited women guest speakers for a **Women in STEM Career Day 2020**. This is a day-long event held in Newton at our Sussex County Community College on Thursday, January 9th, 2020. A 250 total, freshman, girls from invited area high schools to have the opportunity to meet, listen and be empowered by our guest presenters. This will be by invitation with help from our administrators. This opportunity can help raise awareness in the value of women in STEM careers. We also hope to expose the shortfall which exists for women in STEM.

Where: Sussex County Community College 1 College Hill Rd, Newton, NJ 07860
PAC Auditorium, Building - D, Atrium areas will be utilized during the day.

When: Thursday, January 9th, 2020 (Snow Date: Friday, January 10th)

Doors open at 9:30 AM Students are dropped off near the PAC building.

Event welcome begins at 10:00 AM Mercedes Aguirre Batty, PhD
Vice President of Academic Affairs Chief Academic Office Sussex County Community College
One College Hill Road Newton, NJ 07860 maguirrebatty@sussex.edu 973-300-2131

Introduction of our keynote speaker: 10:10 AM Abigail Nicholas (NHS STEM Ambassador)

KeyNote Speaker 10:15 AM - 10:35 AM (20 min.)

#1 Johnson & Johnson 10:40 AM - 10:55 AM (15 min.) J&J Engineer (Guest)

#2 Johnson & Johnson 11:00 AM - 11:15 AM (15 min.) J&J Engineer (Guest)

#3 Thorlabs 11:20 AM - 11:40 AM (20 mins.) Ms Audrey Wall

#4 Picatinny Arsenal 11:45 AM - 12:00 AM (15 mins.) Mrs. Stacey Yauch

Bag Lunch Provided 12:00 - 12:30 (Atrium) Watch **Dream Big** DVD during lunch.

<https://www.youtube.com/watch?v=Qb77alwaeNE> (Educational trailer)

A variety of VEX pre-built robots available to drive around remotely.

To secure a spot contact: Jim Hofmann jhofmann@newtonnj.org (973)903-9774



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Breakout sessions will be in four classrooms in building - D

#1 Interactive Hands on Station 12:35 - 12:50 (Rotate every 15 mins.)

Each session will feature the guest and one TSA/Robotics female assistant.

A Johnson & Johnson representative explaining and showing STEM career presentation.

#2 Interactive Hands on Station 12:55 - 1:10 (Rotate every 15 mins.)

Each session will feature the guest and one TSA/Robotics female assistant.

A Johnson & Johnson engineer explaining and showing a FarmBot presentation.

#3 Interactive Hands on Station 1:15 - 1:30 (Rotate every 15 mins.)

Each session will feature the guest and one TSA/Robotics female assistant.

Thorlabs Representative girls build their own "rainbow machine" where optics pre-mounted on posts along with a light source and screen. The challenge would be to get light from a fiber collimator to the screen, showing a rainbow, by using the mirror and the prism.

#4 Interactive Hands on Station 1:35 - 1:50 (Rotate every 15 mins.)

Each session will feature the guest and one TSA/Robotics female assistant.

Stacey Yauch explaining the some process she works with. Students handle, parts, raw sample materials to learn more about that industry.

Load the buses 2:00 PM

Event Coordinators

Abigail Nicholas (Sophomore) Jim Hofmann (NHS)

Jeffrey Waldron (NHS Principal) Theresa Hough (NHS)



Stacey Yauch (Picatinny Arsenal)

Audrey Wall (Thorlabs)

Mercedes Aguirre-Batty (SCCC)



Matthew Richtmyer (Johnson&Johnson)



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**NEWTON HIGH SCHOOL
PERMISSION SLIP**

Student's Name _____

Trip Date January 9th, 2020 W/Jan.10th snow date Depart Time 9:00 am Return Time 2:15 PM

Trip Destination SCCC Women in STEM Career Day 2020 Cost of Trip 0

Trip Coordinator Jim Hofmann Email Address jhofmann@newtonnj.org

Please List your child's Health Concerns: _____

Does your child have asthma? YES NO (circle one)

If yes, do they use an inhaler? YES NO (circle one)

Does your child have any allergies? YES NO (circle one)

If yes, please describe: _____

Does your child require an Epi-pen? YES NO (circle one)

If your child is to take self-administered medication while on the trip for a life-threatening illness, a **Request for Self-Administration of Medication** from the nurse's office must accompany this permission slip or be on file in the nurse's office.

Name of family physician: _____ Phone: _____

Name of student: _____ Date of Birth: _____

Name of parent: _____ Home Phone: _____

Work phone: _____ Cell Phone: _____

In the event that I cannot be reached, I give permission for the staff member/s in charge to seek medical treatment for my child in case of an injury or illness that occurs while participating in this school sponsored activity.

It is the responsibility of the student to meet with his/her teachers to make up any missed work/assignments.

I give permission for my son/daughter to participate in this Field Trip.

Signature of Parent/Guardian: _____ Date: _____