National Black History Month
National Engineering Week is 2/20—2/26
Introduce a Girl to Engineering Day is 2/24

TEP Events
Register for all events of interest by clicking on the event.

Sweet Treats: Confectionary Science and Technology
Tuesday, February 8, 2022
6 – 7 pm, ET
Featuring speakers from Hershey
Learn more

STEM College & Career Webinar: Manufacturing
Thursday, February 17, 2022
5 – 6:15 pm, ET
Featuring engineers from Procter & Gamble (Consumer Products), Arconic (Aluminum) & Equitrans Midstream (Natural Gas)

Virtual Bite of Science
Tuesday, February 22, 2022
5 – 6:30 pm, ET
Featuring Jonas Ketterle, CEO of Ora Cacao & Dr. Professor of Hydrogeosciences

Stick It: Bio-inspired Adhesives
Tuesday, March 8, 2022
6 – 7 pm, ET

View TEP Spring Calendar

STEM News

Science
Compounds made from 'digested' molecules feeds appetite for greener pharmaceuticals and agrochemicals
A method of producing vital chemical building blocks for use in the pharmaceutical and agrochemical industries mimics how plants manufacture them.

Technology
Self-healing nanomaterials usable in solar panels and other electronic devices
Scientists developed a process where a group of materials called double perovskites display self-healing properties after being damaged by the radiation of an electron beam.

Engineering
A soft, stretchable thermometer
Researchers have developed a soft, self-powered thermometer that can be integrated into stretchable electronics and soft robots.

Mathematics
Studying the Big Bang with artificial intelligence
A neural network has been developed that can be used to study quark gluon plasma - the state of the universe after the Big Bang. Now it is produced by high-energy atomic nucleus collisions, for example at CERN.
Ursula Burns was born on September 20, 1958 and was raised in a low-income housing project on Manhattan’s Lower East Side. Throughout her academic career, she excelled at math. Burns graduated with a degree in mechanical engineering from the Polytechnic Institute of New York University in Brooklyn in 1980. That same year, Burns started pursuing a master’s degree in mechanical engineering at Columbia University and joined Xerox as a summer intern, which helped to pay her educational expenses. After completing her master’s degree, Burns joined Xerox as a full-time employee and quickly gained a role in product development. Starting in 1992, she progressed through various roles in management and engineering, eventually becoming senior vice president of corporate strategic services. In this position, Burns oversaw production operations and allowed her to broaden her leadership in the areas of global research, product development, marketing, and delivery. She was named president of Xerox in 2007 and just two years later was named CEO. And in 2010 she became chairman of the board.

In 2010, as chairman of the board, Burns started to transform Xerox which was struggling with declining revenue. During this transformation, business shifted focus from products to services and Xerox acquired another company. Unfortunately, Xerox could not be revived and in 2016 Burns began efforts to spin off some of its business services into separate companies. In 2017, she resigned as chairman of the board.

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During her time at Xerox, Burns held several government appointments and served on the board of numerous companies. Just last year, she published her memoir “Where You Are is Not Who You Are”. Burn’s career should serve as a role model for all students interested in business or STEM careers.

To learn more: Lean In & How I Saved Xerox From a Near-Death Experience