

STEM Expo

SPRING 2016

January 29
8 a.m. - 2 p.m.

News-Journal Center
at Daytona State College

Featuring inspiration and insight from...



STEM
COMMUNITY SCHOLARS
PROGRAM



National
Science
Foundation

WHERE DISCOVERIES BEGIN

AWARD NUMBER:0968970



Dr. Pamela
McCauley

WHY STEM IS THE KEY TO YOUR SUCCESS!

You'll hear about amazing STEM pathways from this author, entrepreneur, engineer, and professor. Dr. McCauley's expertise lies in critical areas such as artificial intelligence, biomechanics, ergonomic design and human factors in chemical/biological weapon development and information security. She will open your eyes to exciting career possibilities!

Dr. McCauley teaches in UCF's Department of Industrial Engineering and Management Systems. She is currently working with the U.S. State Department to re-design Hazmat suits for global health care workers who treat patients with Ebola and other infectious diseases.

A popular author, Dr. McCauley tells her empowering personal story in her book "Winners Don't Quit...Today They Call Me Doctor."



Dr. Stephanie
Pasley

DANCE YOUR WAY TO MATH

Can you imagine learning math through music and dance? Dr. Stephanie Pasley created innovative, instructional activities – THE READING PARTY: Music! Fitness! Phonics! Fun! and THE MATH PARTY PROGRAM: Sing! Dance! Exercise! Learn! – to share with educators, students and parents across the nation.

Dr. Pasley, a Bethune-Cookman University graduate, started her company, Step By Step Expressions Inc., as part of her life's work to teach and motivate young people. Recognized as an International Educational Consultant, author and publisher of instructional curricula, motivational speaker and certified fitness instructor, she taught Methods of Mathematics for Elementary Teachers at Barry University, and was a fifth-grade teacher.



Dr. John Picione

SUPER SURFING WITH SCIENCE

Did you know that science makes surfing a great sport for avid wave riders, like Professor John Picione? Surfers choose their size and shape of board based on how they want to ride, their skill level and size. But nowadays they also consider aspects of chemistry, physics, oceanography and math to help analyze surf spots and performance.

A chemistry professor at Daytona State, Dr. Picione will show you how science makes the most out of the surfing experience. His passion outside of science is surfing, specifically stand-up paddle board (SUP) surfing. He surfs our area on a regular basis, but has traveled to other places in search of bigger waves.



Brianna Kurtz

SUPER HEROES AND STEM?

Super heroes win by smart thinking with STEM – you knew that, right? Professor Brianna Kurtz will fill you in on "Stark Industries: Marvels of Math, Science and Engineering" as she explains how superheroes like Iron Man have grown in popularity in recent years through blockbuster films. Many of the plotlines have boasted great STEM feats.

From Iron Man's suit to the evolution of J.A.R.V.I.S., Prof. Kurtz will take an interactive look at what separates science from science fiction and just how close we really might be to engineering ourselves into superheroes.

Prof. Kurtz is an associate professor of mathematics at Daytona State. In addition to her interests in STEM, she considers herself to be an avid movie buff.

For more information, contact:

Tanya Jenkins
STEM Coordinator
386-506-3415

Tanya_Jenkins@DaytonaState.edu

LaKisha Holmes
Principal Investigator, STEM Community Scholars Program
386-506-3580
HolmesL@DaytonaState.edu



**DAYTONA
STATE COLLEGE**

A MEMBER OF THE FLORIDA COLLEGE SYSTEM

Daytona State College prohibits discrimination and provides equal access/equal opportunity to all persons.