



ASPiRE 2018 PROGRAM

Seidler Hall
Florida Gulf Coast University
Saturday, Feb. 3, 2018



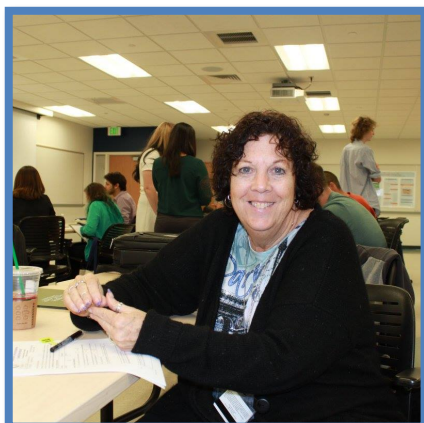
Morning Sessions 8:00 AM – 12:30 PM Seidler Hall: Room 114

8:00 – 9:00	Registration (Seidler Lobby) and Breakfast (Seidler: Room 220)
9:00 – 9:15	Opening Remarks
9:15 – 10:15	Using Mathematics to Unlock Biological Mysteries / Young, Mathematically Gifted, and Black <i>Candice Price</i> , University of San Diego
10:15 – 10:25	Break
10:25 – 10:55	Fast and Stable Algorithms for Structured Matrices <i>Sirani M. Perera</i> , Embry-Riddle Aeronautical University
10:55 – 11:25	Machine learning approaches to modeling visual processing <i>Chris DiMattina</i> , Florida Gulf Coast University
11:25 – 11:35	Break
11:35 – 12:20	Panel Discussion: Research Opportunities & Experiences
12:20 – 12:30	Conference Photo

Lunch: 12:30 – 1:15 PM
Seidler Hall: 2nd Floor Lobby

Afternoon Sessions 1:15 PM – 4:15 PM
Seidler Hall: Room 220

1:15 – 1:40	Proposing a TEEd Lesson <i>Alejandra Brewer Castano, Alexander Faus, Kelly Kramer, and Katie Tragakis</i> , Florida Southern College
1:40 – 2:05	Computer Modeling and Waldo <i>Chance Hamilton</i> , Florida Gulf Coast University
2:05 – 2:30	Positive Solutions to an Asymmetric Reaction-Convection-Diffusion Equation <i>Sandra Ferris</i> , Florida Gulf Coast University
2:30 – 2:45	Break
2:45 – 3:10	A Simple Proof that π is irrational <i>Noah Drake</i> , Florida Gulf Coast University
3:10 – 3:35	Graph Decompositions <i>Alejandra Brewer Castano</i> , Florida Southern College
3:35 – 4:00	Improved solutions to the vertex separator problem based on the first order optimality conditions <i>Christie Mauretour</i> , University of Florida
4:00 – 4:15	Closing Remarks and Exit Survey



Enjoying the 2016 ASPIRE conference.

In early January, the Department of Mathematics lost our beloved executive secretary, Ms. Kathy McElroy to a battle with cancer. Kathy began at FGCU in 2006, and worked for the math department (formerly math and chemistry) for 11 years. She was a strong supporter of the ASPIRE conference, attending every year and making sure it ran smoothly.

In her honor, we have created the “Kathy McElroy Distinguished Student Speaker Award” to be presented to an outstanding undergraduate or graduate student, chosen by the ASPIRE committee at the end of the conference.

Our friend, we were lucky to have known you. Rest in peace. 