

## Summer 2019 Invitation for Faculty & Students



# Accepting Faculty- Student TEAMS\*

10 week summer Research  
program at Furman University  
(May 20- July 26, 2019)

*Send inquiries to:*

*Karen Buchmueller:  
karen.buchmueller@furman.edu*



**Bring your own research  
or collaborate with  
Furman Faculty!**

This program will  
provide the following:

- Student stipend: \$5000
- Student housing supplement: \$500
- Faculty stipend: \$8000
- Research supplies: \$1000 / group
- Research space
- Access to departmental equipment
- Student registration and travel support  
the Southeast Regional ACS meeting

Visiting faculty are encouraged to apply  
with 1-3 students

\* This program is designed for  
participation by Faculty/Student Teams.  
Individual students may be accepted.



## Furman Faculty

**Mary Elizabeth Anderson:** Materials chemistry with metal-organic framework

**Karen Buchmueller:** understanding the mechanisms by which small molecules compete with proteins for DNA binding

**Mary Beth Daub:** organic synthesis

**Brian Goess:** synthesis of biologically-active small molecule natural products and the development of new reactions

**Tim Hanks:** mechanisms of self-assembly and their use in supramolecular synthesis

**Jeff Petty:** looking at hydration changes for DNA-drug interactions, DNA based nanomaterials and DNA structures in neurological diseases

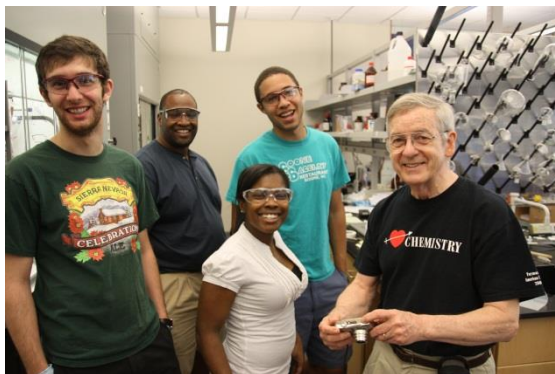
**Greg Springsteen:** evolving DNA aptamers through SELEX using a unique hairpin strategy

**Paul Wagenknecht:** development of photochemical molecular devices (PMDs)

**John Wheeler:** developing novel strategies for separating chiral transition metal mixtures using capillary electrophoresis

**Laura Wright:** harnessing the optical properties of nano-structures for use in sensing applications

## Applications Due March 11, 2019



Submit applications to:  
[karen.buchmueller@furman.edu](mailto:karen.buchmueller@furman.edu)

For more information, see:  
<http://chemistry.furman.edu/reu/>  
for more information



## Summer Activities

### Students

- professional and technical workshops (academic credit possible)
- communication skill building
- science outreach project



### Faculty & Students

- Superb laboratory facilities
- weekly lunch meetings
- invited seminar speakers
- social gatherings and events

### Faculty Mentors

- peer mentoring
- professional development