The Capture 180 Research Challenge is a forum for students who have participated in undergraduate research and creative activity projects under the mentorship of a faculty member. This year we have ten students from all majors and departments competing for the prizes. The judges will choose one winner, and the audience will choose one.

WELCOME TO CAPTURE 180 | 2018

7. Children as Collateral Damage of Incarceration
Exploring the impact of paternal incarceration during childhood on adolescent academics, behavior, and friendship networks

Cassie Meyer; Applied Sociology
Mentor: Dr. Colin Campbell

8. Early Elementary Literacy Skills
Early elementary literacy skills

Mackenzie Thorley; Family and Community Services: Child Development
Mentor: Dr. Denise Donica

9. Culture and Self-Perception: The Impact on College Students’ Help-Seeking Behaviors
Does culture and self-perception have an effect on help-seeking behaviors of college students?

Shamin Jamadar; Psychology
Mentor: Dr. Jessica Ford

10. ACSL6 is Required for Spermatogenesis
The knockout of ACSL6, which is important for retention of fatty acids, is detrimental to spermatogenesis. This has major implications in treating diet-induced male infertility.

Taylor Malachowski; Biology
Mentor: Dr. Chris Geyer; Dr. Ben Hale
The object is to describe work to a lay audience in 2-3 minutes, using one static slide or prop. It is based on the popular 3MT® competition for graduate students.

Capture 180 judges are distinguished community leaders and ECU administrators. They are charged to use the judging criteria of comprehension, content, engagement and communication (equally rated). They will deliberate after all the presentations, and the presenter that ranks first will be the Grand Champion. The audience is also encouraged to fill out a ballot with the same criteria. Audience ratings will determine the People Choice winner. Because the competition is short, winners are announced after the judges deliberate, and trophies are awarded immediately.

**EVENT OVERVIEW**

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<td>8:30AM - 8:45AM</td>
<td>JUDGE &amp; PRESENTER CHECK-IN</td>
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<td>8:45AM - 9:15AM</td>
<td>PRESENTATIONS</td>
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<td>9:15AM - 9:30AM</td>
<td>MICHAEL HARRIS, PhD</td>
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<td>Miller School of Entrepreneurship</td>
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<td>9:30AM</td>
<td>AWARDS</td>
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**PRESENTATIONS**

1. **Quantitating Benzoate Preservative Concentrations in Beverages for Use in Clinical Obesity Studies**
   A hidden contributor’s role in America’s obesity epidemic
   
   AUSTIN ALLEN; BIOCHEMISTRY
   MENTOR: DR. ALLISON S. DANELL; DR. DAVID N. COLLIER

2. **More PEAS Please: Can Food-Based Learning Improve Preschoolers Vegetable Intake?**
   Examining the effect of repeated exposures to improve preschool children’s vegetable liking and overall fruit/vegetable consumption
   
   JOCELYN BAYLES; NUTRITION AND DIETETICS
   MENTOR: DR. VIRGINIA STAGE; DR. ARCHANA HEGDE

3. **Health For People In Need Everywhere (Health4PINE)**
   Mental, social, physical: how youth are learning to better themselves one tip at a time.
   
   PRANAYA PAKALA; MOLECULAR BIOLOGY
   MENTOR: DR. MARY FARWELL; DR. KEITH RICHARDS

4. **Wavelets and S.M.A.R.T. Stats**
   Applying wavelet analysis to the problem of predicting hard disk failure
   
   LOGAN CHILDERS; MATHEMATICS
   MENTOR: DR. NJINASOA RANDRIAMPIRY

5. **Bridging the Gap**
   Communication, relationships, and understanding: three areas of improvement required for Hispanic student success and increased parent involvement
   
   MICHAEL DENNING; PUBLIC HEALTH STUDIES
   MENTOR: DR. BERNICE DODOR

6. **What Do We Really Know About Type II Diabetes?**
   Assessing the knowledge of East Carolina University students and faculty in regards to the treatment of Type II diabetes
   
   KELLY KIMBLE; BIOLOGY AND RELIGIOUS STUDIES
   MENTOR: DR. WALTER J. PORIES

(SUBMISSION CONTINUE ON TO THE NEXT PAGE)