Ed Hilinski and Bridget DePrince
https://www.chem.fsu.edu/reu/
Department of Chemistry and Biochemistry
Florida State University
Tallahassee, Florida 32306-4390
Summer 2024 - May 28 to Aug 2
Ed Hilinski and Bridget DePrince
https://www.chem.fsu.edu/reu/
Department of Chemistry and Biochemistry
Florida State University
Tallahassee, Florida 32306-4390
## A Chronology
First Day - May 28, 2024 – Welcome!

<table>
<thead>
<tr>
<th>REU Participant</th>
<th>Home Institution</th>
<th>In-Lab Mentor</th>
<th>Faculty Advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cianna Chung</td>
<td>Ursinus College</td>
<td>Tarannuma Ferdous Manny &amp; Sahel Moslemi</td>
<td>Biwu Ma</td>
</tr>
<tr>
<td>Brody Farace</td>
<td>Lafayette College</td>
<td>Sulthana Fehroza P.P. &amp; Fernando Melo</td>
<td>Jack Saltiel</td>
</tr>
<tr>
<td>Airionna Fordham</td>
<td>Valdosta State University</td>
<td>Michael Commodore &amp; Lona Dutta</td>
<td>Igor Alabugin</td>
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<td>Corbin Frisvold</td>
<td>Kutztown University</td>
<td>Andrew Cantrell &amp; Raul Ortega</td>
<td>Geoffrey Strouse</td>
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<td>Kaylee Head</td>
<td>Samford University</td>
<td>Lucy Jenkins</td>
<td>Lei Zhu</td>
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<tr>
<td>Elizabeth Holyat</td>
<td>SUNY Binghamton University</td>
<td>Rachel Weiss Clark</td>
<td>Bryan Kudisch</td>
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<td>Luke Jodoin</td>
<td>Univ. Arkansas – Fort Smith</td>
<td>Ethan Lambert</td>
<td>Kenneth Hanson</td>
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<td>Univ. Maryland, Baltimore County</td>
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<td>Michael Shatruk</td>
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<td>Maria Grebenkina</td>
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<td>Michael Shatruk</td>
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<td>James Leone</td>
<td>Hendrix College</td>
<td>Justin Phillips</td>
<td>Eugene DePrince</td>
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<tr>
<td>Eduarda Stein Christ</td>
<td>Texas Lutheran University</td>
<td>Divya Kumar &amp; Dibya Mondal</td>
<td>Michael Shatruk</td>
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<tr>
<td>Taylor Walker</td>
<td>Misericordia University</td>
<td>Amir Zarei</td>
<td>Susan Lattturner</td>
</tr>
</tbody>
</table>
Monday, May 20, 2024
12:00 noon-1:00 p.m. In-Lab Mentors Workshop – CSL 1005
   – Drs. Bridget DePrince & Ed Hilinski

Tuesday, May 28, 2024

8:45-9:00 a.m. Walk to DLC from Ragans Hall – Dr. Bridget DePrince
9:00-9:30 a.m. Breakfast / Mingling – DLC 123
   Introduction to the Department – DLC 123
   Dept. Chair Wei Yang & Ed Hilinski
9:30-10:00 a.m. Ice Breaker: Participants and Faculty Advisors Introductions
10:00-11:00 a.m. Meet the In-Lab Mentors – Lab Tours
11:00-12:00 noon Departmental Paperwork & HR
12:00-1:00 p.m. Group Lunch – REU Participants & invited guests
   – Kearney Osceola Grille
1:30-2:30 p.m. Safety Training –
   Ben Arline, Environ. Health & Safety – DLC 123
2:30-4:00 p.m. Departmental Paperwork & FSU ID –
   Dr. Ed Hilinski – DLC 123 & FSU Card Center
First Week Agenda (continued)

**Wednesday, May 29, 2024**
Work in the Research Labs
3:30-4:30 p.m. Departmental Ice Cream Social - CSL Lobby

**Thursday, May 30, 2024**
Work in the Research Labs

**Friday, May 31, 2024**
Work in the Research Labs
3:30-5:00 p.m. REU Weekly Seminar - Dr. Ed Hilinski
- Entry Surveys, Baseline Quiz, summary of the first week
- Research ethics, lab culture, lab notebooks, expectations
- Research resources, tutorials, learning beyond lab, Scifinder Scholar, NMR training, ChemDraw, other software

**Saturday, June 1, 2024**
10:00 a.m.-12:30 p.m. Saturday Seminar Series - Zoom
2:00 p.m. River Boat Ride, Swimming, and Dining at Wakulla Springs, FL - Dr. Ed Hilinski
<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
<th>Location, time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 2</td>
<td><strong>T June 4</strong> Photochemistry Café - Dr. Michael Shatruk</td>
<td>DLC 123, 9:00 a.m.</td>
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<tr>
<td></td>
<td>Tour of Chemistry &amp; Biochemistry Instrumentation Labs</td>
<td>DLC 123, 10:00 a.m.</td>
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<td></td>
<td><strong>F June 7</strong> REU Seminar - Ed Hilinski - discussion of research presentations</td>
<td>DLC 123, 3:30 p.m.</td>
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<td></td>
<td><strong>Sa June 8</strong> Coffee &amp; Tea Conversations - Dr. Ed Hilinski</td>
<td>11:00 a.m.</td>
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<tr>
<td>Week 3</td>
<td><strong>T June 11</strong> Photochemistry Café – Dr. Biwu Ma - w/breakfast</td>
<td>DLC 123, 9:00 a.m.</td>
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<td><strong>W June 12</strong> Tour of the Magnet Lab at 10:00 a.m.</td>
<td>Tallahassee, FL</td>
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<td></td>
<td><strong>F June 14</strong> Photochemistry Café - Dr. Jack Saltiel</td>
<td>DLC 123, 3:30 p.m.</td>
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<tr>
<td></td>
<td>REU Seminar (discussion of student research themes)</td>
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<tr>
<td>Week 4</td>
<td><strong>T June 18</strong> Tour of Nammo Perry Inc (depart at 7:30 am for tour at 9 am)</td>
<td>Perry, FL</td>
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<tr>
<td></td>
<td><strong>F June 21</strong> REU Seminar (3-min student presentations: research themes)</td>
<td>DLC 123 3:30 p.m.</td>
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<tr>
<td>Week 5</td>
<td><strong>T June 25</strong> Photochemistry Café - Dr. Geoffrey Strouse</td>
<td>DLC 123, 9:00 a.m.</td>
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<td></td>
<td><strong>F June 28</strong> Photochemistry Café - Dr. Kenneth Hanson</td>
<td>DLC 123 3:30 p.m.</td>
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<td></td>
<td>REU Seminar – Weekly Update with Ed Hilinski</td>
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<tr>
<td></td>
<td><strong>Sa June 29</strong> Coffee &amp; Tea Conversations - Dr. Ed Hilinski (location TBA)</td>
<td>11:00 a.m.</td>
</tr>
<tr>
<td>Week 6</td>
<td><strong>T July 2</strong> Photochemistry Café - Dr. Kenneth Hanson - w/breakfast</td>
<td>DLC 123, 9:00 a.m.</td>
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<tr>
<td></td>
<td>- Graduate School Demystified</td>
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<td></td>
<td><strong>R July 4</strong> Independence Day picnic (by invitation) 4:00 p.m.</td>
<td>DePrince Residence</td>
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<tr>
<td></td>
<td><strong>F July 5</strong> FSU Closed in Observance of Independence Day</td>
<td>6:30 p.m.</td>
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<tr>
<td></td>
<td>First Friday Festivities</td>
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</tr>
<tr>
<td>Week 7</td>
<td><strong>T July 9</strong> Photochemistry Café - Dr. Lei Zhu - w/breakfast</td>
<td>DLC 123 9:00 a.m.</td>
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<tr>
<td></td>
<td><strong>R July 11</strong> Tyndall Air Force Base (depart 7:40 am EDT for a 10:00 am CDT tour)</td>
<td>Tyndall, FL</td>
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<tr>
<td></td>
<td><strong>F July 12</strong> Photochemistry Café - Dr. Susan Latturner</td>
<td>DLC 123 3:30 p.m.</td>
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<tr>
<td></td>
<td>REU Seminar - Dr. Ed Hilinski - weekly review and update</td>
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<tr>
<td>Date</td>
<td>Activity</td>
<td>Location, time</td>
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<tr>
<td>Week 8</td>
<td>T July 16 Photochemistry Café - Dr. Bryan Kudisch - w/breakfast</td>
<td>DLC 123 9:00 a.m.</td>
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<tr>
<td></td>
<td>F July 19 REU seminar (student 15-min research presentations)</td>
<td>DLC 123, 3:30 p.m.</td>
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<tr>
<td></td>
<td>1. Presenter 1</td>
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<td>2. Presenter 2</td>
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<tr>
<td></td>
<td>3. Presenter 3</td>
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<tr>
<td>Week 9</td>
<td>T July 23 Dinner with REU Students, In-Lab Mentors &amp; Faculty</td>
<td>?Location, 6:00 p.m.</td>
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<tr>
<td></td>
<td>T July 23 Photochemistry Café - Dr. Igor Alabugin - w/breakfast</td>
<td>DLC 123, 9:00 a.m.</td>
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<td></td>
<td>R July 25 REU seminar (student 15-min research presentations)</td>
<td>DLC 123, 3:30 p.m.</td>
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<td>4. Presenter 4</td>
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<td>5. Presenter 5</td>
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<td>6. Presenter 6</td>
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<tr>
<td></td>
<td>F July 26 REU seminar (student 15-min research presentations)</td>
<td>DLC 123, 3:30 p.m.</td>
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<td>7. Presenter 7</td>
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<td>8. Presenter 8</td>
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<td>9. Presenter 9</td>
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<tr>
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<td>10. Presenter 10</td>
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<tr>
<td>Sa July 27</td>
<td>Coffee &amp; Tea Conversations - Drs. Ed Hilinski &amp; ???</td>
<td>10:30 a.m.</td>
</tr>
<tr>
<td>Week 10</td>
<td>T July 30 Photochemistry Café - Dr. Ed Hilinski - w/breakfast</td>
<td>DLC 123, 9:00 a.m.</td>
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<tr>
<td></td>
<td>R Aug 1 Poster Session (student research presentations)</td>
<td>CSL lobby, 3:00 p.m..</td>
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<td>F Aug 2 Exit interviews and surveys</td>
<td>DLC 5th Floor Conf. Rm.</td>
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<tr>
<td></td>
<td>F Aug 2 REU seminar</td>
<td>DLC 123, 3:30 p.m.</td>
</tr>
<tr>
<td></td>
<td>First Friday Festivities</td>
<td>6:30 p.m.</td>
</tr>
<tr>
<td>SaSu Aug 3-4</td>
<td>Student departures</td>
<td></td>
</tr>
</tbody>
</table>
REU In-Lab Mentors Workshop
May 20, 2024 - Chemical Sciences Laboratory (CSL) Room 1005
with Drs. Bridget DePrince and Ed Hilinski

left to right: Michael Commodore; Lona Dutta; Justin Philips; Fernando Melo; Ethan Lambert; Dibya Mondal; Amir Zarei; Sahel Moslemi; Tarannuma Ferdous Manny; Sulthana Fehroza P.P.; Divya Kumar; Rachel Weiss Clark; Raul Ortega; Andrew Cantrell; Lucy Jenkins
After Arrival in Tallahassee... Finally Dinner!
May 26, 2024 – Liberty Bar & Restaurant, Tallahassee, Florida with Dr. Ed Hilinski

left to right: Tsion Lemi; Airionna Fordham; Kaylee Head; Brody Farace; James Leone; Luke Jodoin; Corbin Frisvold; Mariia Grebenkina; Taylor Walker; Elizabeth Holyat
The REU Participants Have Some Morning Beverages
May 27, 2024 - Black Dog Café, Tallahassee, Florida with Dr. Ed Hilinski

clockwise from 8 o’clock: Mariia Grebenkina; Kaylee Head; Elizabeth Holyat; Airionna Fordham; Taylor Walker; Brody Farace; James Leone; Luke Jodoin
Lunch at Midtown Caboose
May 27, 2024 – Midtown Caboose Restaurant, Tallahassee, Florida with Dr. Ed Hilinski

left to right: James Leone; Tsion Lemi; Airionna Fordham; Mariia Grebenkina; Brody Farace; Kaylee Head; Taylor Walker; Elizabeth Holyat; Luke Jodoin
Dinner at Midtown Noodles Bar
May 27, 2024 – Midtown Noodles Bar, Tallahassee, Florida with Dr. Ed Hilinski

left to right: James Leone; Corbin Frisvold; Elizabeth Holyat; Luke Jodoin; Brody Farace; Mariia Grebenkina; Tsion Lemi; Kaylee Head; Airionna Fordham; Taylor Walker; Cianna Chung
After Breakfast, Meeting with Faculty Advisors & In-lab Mentors, and Lab Tours… Lunch!
May 28, 2024 – Kearney Osceola Grille, Tallahassee, Florida
with Drs. Ken Hanson, Bridget DePrince, and Ed Hilinski
Some Outside Air before Cheesecake
May 28, 2024 – Bobby Bowden Field at Doak Campbell Stadium outside the Kearney Osceola Grille, Tallahassee, Florida
Back to Orientation… Safety Training
May 28, 2024 – DLC 123 with Ben Arline of FSU Environmental Health & Safety
Let the Work Begin!
May 29, 2024

Kaylee Head and in-lab mentor Lucy Jenkins working in Prof. Lei Zhu’s research group are putting the NMR spectrometer through its paces.
Ice Cream Social
May 29, 2024 – 3:30 to 4:30 p.m. in the CSL Lobby
Everyone in the FSU Chemistry & Biochemistry Community is invited.
Ice Cream Social
May 29, 2024 – 3:30 to 4:30 p.m. in the CSL Lobby
REU Weekly Seminar
May 31, 2024 - DLC 123, 3:30-5:00 p.m. with Dr. Ed Hilinski

Entry survey, entry quiz, summary of the first week
Research ethics, lab culture, lab notebooks, expectations
Research resources, tutorials, learning beyond lab,
SciFinder Scholar, NMR training, ChemDraw, other software
Group Watch Party
Saturday Seminar Series:
Light as Reagent and Product

https://miami.zoom.us/j/91076429404?pwd=b05scFV2SEIvY3RmRUvJRTNzMvmF4Zz09

June 1, 2024
DLC 123, 10:00 a.m. – 1:00 p.m.
with Ed Hilinski

Saturday Seminar Series: Light as Reagent and Product

Professor Robert S. H. Liu
Memorial Lectures (zoom)
Saturday, June 1, 2024
10:00 AM-12:30 PM (EDT)

Robert S. H. Liu
(1938-2024)

Prof. Jack Saltiel
Department of Chemistry and Biochemistry, Florida State University, Tallahassee, Florida, USA

The 2A state of 1,3-cyclohexadiene: is it an intermediate in the 1B state photochemical ring opening?

Prof. Juan (Tito) Scalano
Canada Research Chair in Applied Photochemistry, Department of Chemistry, University of Ottawa, Ottawa, Canada

Decatungstate photochemistry: a wannabe carbonyl triplet

Prof. Dario Bassani
Institut des Sciences Moléculaires - University of Bordeaux, France

Fundamental and practical aspects of double bond photoisomerization

Meeting ID: 910 7642 9404; Passcode: 868219
Trip to Wakulla Springs

www.floridastateparks.org/parks-and-trails/edward-ball-wakulla-springs-state-park

June 1, 2024
Wakulla, Florida
with Ed Hilinski
Photochemistry Café
“Bistability in Molecular Materials: From Spin-State Switching to Functional 2D Heterostructures”
http://www.chem.fsu.edu/reu-links/
Prof. Michael Shatruk
June 4, 2024, 9:00-10:00 a.m.
DLC 123, Tallahassee, Florida

Then on to a Tour of Departmental Instrumentation Labs
With Dr. Kenneth Hanson
REU Weekly Seminar
June 7, 2024 - DLC 123, 3:30-5:00 p.m.
with Drs. Ed Hilinski and Bridget DePrince

Second-week survey, summary of the second week
Follow-up on: research ethics, lab culture, lab notebooks, expectations
Overview about 3-minute & 15-minute oral presentations and poster presentations
The REU Participants Have Some Morning Beverages

June 8, 2024 - Black Dog Café, Tallahassee, Florida with Drs. Ed Hilinski, Eugene DePrince & Wei Yang
An Afternoon at Lake Bradford

campusrec.fsu.edu/outdoors/reservation/

Live Lakefront Weather: https://leon.weatherstem.com/fsurez

June 8, 2024, FSU Lakefront Park, Tallahassee, Florida
Multitasking in the Lab
June 10, 2024

Brody Farace, working in Prof. Jack Saltiel’s research group, is using HPLC to purify a sample and UV-visible absorption spectroscopy for its characterization.
Photochemistry Café
“Light Emitting Diodes Based on Metal Halide Perovskites and Beyond”
http://www.chem.fsu.edu/reu-links/
Prof. Biwu Ma
June 11, 2024, 9:00-10:00 a.m.
DLC 123, Tallahassee, Florida
Getting Quizzed by Prof. Ma

http://www.chem.fsu.edu/reu-links/

June 11, 2024, 9:00-10:00 a.m.
DLC 123, Tallahassee, Florida
Tour of the National High Magnetic Field Laboratory

nationalmaglab.org/

June 12, 2023, 10:00-11:00 a.m. - Innovation Park, Tallahassee, Florida
Depart from DLC 123 at 9:30 a.m. with Dr. Ed Hilinski
Tour of the National High Magnetic Field Laboratory

[link: nationalmaglab.org/]

June 12, 2023, 10:00-11:00 a.m. - Innovation Park, Tallahassee, Florida
Depart from DLC 123 at 9:30 a.m. with Ed Hilinski and Carlos Villa
Lunch after the Mag Lab Tour
June 12, 2023, 11:30 a.m.-1:00 p.m.
Salty Dawg Pub and Deli, Tallahassee, Florida

Multidimensional Isomerization – Conical Intersections – Trapping Twisted Intermediates

\[ \tilde{h}_{S_0S_1} = (E_1 - E_0)^{-1} \left| \frac{\partial \tilde{H}}{\partial R} \right| \psi_{S_0}^{\tilde{S}_1} \]


Photochemistry Café

“Elementary Photophysical Transitions and Photochemical Reactions”

[link](http://www.chem.fsu.edu/reu-links/)

Prof. Jack Saltiel

June 14, 2024, 3:30-4:30 p.m., DLC 123, Tallahassee, Florida

Followed by the REU Weekly Seminar

June 14, 2024 - DLC 123, 4:45-5:15 p.m.

with Dr. Ed Hilinski

Summary of and discussion about the third week
The REU Participants Catching Some Shade
June 15, 2024 - Black Dog Café, Tallahassee, Florida with Dr. Ed Hilinski
Happy Birthday, Elizabeth!
June 17, 2024 – DLC 123, Tallahassee, Florida with
Drs. Ed Hilinski, Bryan Kudisch, and Jack Saltiel

Black Forest Cake from
Au Péché Mignon French Pastry Shop
https://www.frenchpastrytallahassee.com/
Visit to Nammo Perry Inc

https://www.nammo.com/location/perry/

June 18, 2024 - Perry, Florida
(depart 7:30 a.m. EDT for 9:00 a.m. EDT tour)
REU Weekly Seminar
Student Research Presentations: Introductory Overviews
moderated by Ed Hilinski
June 21, 2024 - DLC 123, 3:30-5:00 p.m.
(in order of presentation)
Student Research Presentation – Introductory Overview

“Research Intro”

Luke Jodoin – University of Arkansas-Fort Smith
Ethan Lambert & Prof. Kenneth Hanson - Florida State University
July 21, 2024 - DLC 123, Tallahassee, Florida
Student Research Presentation – Introductory Overview

“Investigation of Photoinduced Conversion of the Tetrathiophenalenyl Radical (TTPLY)”

Mariia Grebenkina – Ithaca College
Divya Kumar, Dibya Mondal & Prof. Michael Shatruk - Florida State University

July 21, 2024 - DLC 123, Tallahassee, Florida
Student Research Presentation – Introductory Overview

“Investigating Carrier Mobility Through Doped Plasmonic Semiconductor Nanocrystals”

Corbin Frisvold – Kutztown University

Andrew Cantrell, Raul Ortega & Prof. Geoffrey Strouse - Florida State University

July 21, 2024 - DLC 123, Tallahassee, Florida
Student Research Presentation – Introductory Overview
“Synthesis of Zero-Dimensional Organic Metal Halide Hybrids for X-ray Scintillators via Solution Processing”
Cianna Chung – Ursinus College
Tarannuma Ferdous Mamy, Sahel Moslemi & Prof. Biwu Ma - Florida State University
July 21, 2024 - DLC 123, Tallahassee, Florida

Synthesis of Zero-Dimensional Organic Metal Halide Hybrids for X-Ray Scintillators via Solution Processing

Cianna Chung, Tarannuma Mamy, Sahel Moslemi
Dr. Biwu Ma Group
Department of Chemistry & Biochemistry
Florida State University

Acknowledgment - We thank the National Science Foundation Research Experiences for Undergraduates (NSF-REU) Sites program. This material is based upon work supported by the National Science Foundation under Grant No. CHE-2103001.
Student Research Presentation – Introductory Overview

“Synthesis and Characterization of Ba/Ca Mg Silicide Zintl Phase from Mg Flux”

Taylor Walker – Misericordia University

Amir Zarei & Prof. Susan Latturner - Florida State University

July 21, 2024 - DLC 123, Tallahassee, Florida
Student Research Presentation – Introductory Overview
“Synthetic Pathways to Photoactive Organic Molecules”
Brody Farace – Lafayette College
Sulthana Fehroza P.P., Fernando Melo & Prof. Jack Saltiel - Florida State University
July 21, 2024 - DLC 123, Tallahassee, Florida
Student Research Presentation – Introductory Overview
“Synthesis and Characterization of Organic Diradical Molecules”
Airionna Fordham – Valdosta State University
Michael Commodore, Lona Dutta & Prof. Igor Alabugin - Florida State University
July 21, 2024 - DLC 123, Tallahassee, Florida
Student Research Presentation – Introductory Overview

“Photochemical Transformation of Coumarin-Substituted Triazoles to Pyrrolocoumarin Compounds”

Kaylee Head – Samford University

Lucy Jenkins & Prof. Lei Zhu - Florida State University

July 21, 2024 - DLC 123, Tallahassee, Florida
Student Research Presentation – Introductory Overview

“Investigation of BiCl₅²⁻ as a Photocatalyst”

Elizabeth Holyat – SUNY Binghamton University
Rachel Weiss Clark & Prof. Bryan Kudisch - Florida State University

July 21, 2024 - DLC 123, Tallahassee, Florida
Student Research Presentation – Introductory Overview

“Light-Induced Switching in Iron(III) Complexes with Tridentate Schiff-Base Ligands”

Tsion Lemi – University of Maryland, Baltimore County
Divya Kumar, Dibya Mondal & Prof. Michael Shatruk - Florida State University

July 21, 2024 - DLC 123, Tallahassee, Florida
Student Research Presentation – Introductory Overview

“Mapping of Magnetic Ordering in Zr Kagome Solid Solutions”

Eduarda Stein Christ – Texas Lutheran University
Divya Kumar, Dibya Mondal & Prof. Michael Shatruk - Florida State University

July 21, 2024 - DLC 123, Tallahassee, Florida
Cool Times at Florida Caverns State Park


June 22, 2024 - Marianna, Florida with Dr. Ed Hilinski
After the Caverns, Taqueria Miranda

https://taqueriamirandatallahassee.fl.com/

June 22, 2024 - Tallahassee, Florida with Dr. Ed Hilinski
Photochemistry Café
“Plasmonic Metal Oxide Nanocrystals: How a Semiconductor Acts Like a Metal”
http://www.chem.fsu.edu/reu-links/
Prof. Geoffrey Strouse
June 25, 2024, 9:00-10:00 a.m.
DLC 123, Tallahassee, Florida
Photochemistry Café
“Plasmonic Metal Oxide Nanocrystals: How a Semiconductor Acts Like a Metal”
http://www.chem.fsu.edu/reu-links/
Prof. Geoffrey Strouse
June 25, 2024, 9:00-10:00 a.m.
DLC 123, Tallahassee, Florida