



NSF-REU: Sunshine Institute for the Interaction of Light with Matter

(updated June 27, 2024 at 6:00 p.m.)



Ed Hilinski and Bridget DePrince

<https://www.chem.fsu.edu/reu/>

Department of Chemistry and Biochemistry

Florida State University

Tallahassee, Florida 32306-4390





NSF-REU: Sunshine Institute for the Interaction of Light with Matter
Department of Chemistry and Biochemistry, Florida State University



A Chronology
First Day - May 28, 2024 – Welcome!



REU Participant	Home Institution	In-Lab Mentor	Faculty Advisor
Cianna Chung	Ursinus College	Tarannuma Ferdous Manny & Sahel Moslemi	Biwu Ma
Brody Farace	Lafayette College	Sulthana Fehroza P.P. & Fernando Melo	Jack Saltiel
Airionna Fordham	Valdosta State University	Michael Commodore & Lona Dutta	Igor Alabugin
Corbin Frisvold	Kutztown University	Andrew Cantrell & Raul Ortega	Geoffrey Strouse
Kaylee Head	Samford University	Lucy Jenkins	Lei Zhu
Elizabeth Holyat	SUNY Binghamton University	Rachel Weiss Clark	Bryan Kudisch
Luke Jodoin	Univ. Arkansas – Fort Smith	Ethan Lambert	Kenneth Hanson
Tsion Lemi	Univ. Maryland, Baltimore County	Divya Kumar & Dibya Mondal	Michael Shatruk
Mariia Grebenkina	Ithaca College	Divya Kumar & Dibya Mondal	Michael Shatruk
James Leone	Hendrix College	Justin Phillips	Eugene DePrince
Eduarda Stein Christ	Texas Lutheran University	Divya Kumar & Dibya Mondal	Michael Shatruk
Taylor Walker	Misericordia University	Amir Zarei	Susan Lattuner 3



NSF-REU: Sunshine Institute for the Interaction of Light with Matter
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Monday, May 20, 2024

12:00 noon-1:00 p.m. In-Lab Mentors Workshop – CSL 1005
– Drs. Bridget DePrince & Ed Hilinski



First Week Agenda

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

3:30-4:30 p.m. Work in the Research Labs
Departmental Ice Cream Social - CSL Lobby

Thursday, May 30, 2024

Work in the Research Labs

Friday, May 31, 2024

3:30-5:00 p.m. Work in the Research Labs
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



NSF-REU: Sunshine Institute for the Interaction of Light with Matter

Department of Chemistry and Biochemistry, Florida State University



Weeks 2 - 10



	Date	Activity	Location, time
Week 2	T June 4	Photochemistry Café - Dr. Michael Shatrak	DLC 123, 9:00 a.m.
		Tour of Chemistry & Biochemistry Instrumentation Labs	DLC 123, 10:00 a.m.
	F June 7	REU Seminar - Ed Hilinski - discussion of research presentations	DLC 123, 3:30 p.m.
	Sa June 8	Coffee & Tea Conversations - Dr. Ed Hilinski	11:00 a.m.
Week 3	T June 11	Photochemistry Café – Dr. Biwu Ma - w/breakfast	DLC 123, 9:00 a.m.
	W June 12	Tour of the Magnet Lab at 10:00 a.m.	Tallahassee, FL
	F June 14	Photochemistry Café - Dr. Jack Saltiel REU Seminar (discussion of student research themes)	DLC 123, 3:30 p.m.
Week 4	T June 18	Tour of Nammo Perry Inc (depart at 7:30 am for tour at 9 am)	Perry, FL
	F June 21	REU Seminar (3-min student presentations: research themes)	DLC 123 3:30 p.m.
Week 5	T June 25	Photochemistry Café - Dr. Geoffrey Strouse	DLC 123, 9:00 a.m.
	F June 28	Photochemistry Café - Dr. Kenneth Hanson REU Seminar – Weekly Update with Ed Hilinski	DLC 123 3:30 p.m.
	Sa June 29	Coffee & Tea Conversations - Dr. Ed Hilinski (location TBA)	11:00 a.m.
Week 6	T July 2	Photochemistry Café - Dr. Kenneth Hanson - w/breakfast - Graduate School Demystified	DLC 123, 9:00 a.m.
	R July 4	Independence Day picnic (by invitation) 4:00 p.m.	DePrince Residence
	F July 5	FSU Closed in Observance of Independence Day First Friday Festivities	6:30 p.m.
Week 7	T July 9	Photochemistry Café - Dr. Lei Zhu - w/breakfast	DLC 123 9:00 a.m.
	R July 11	Tyndall Air Force Base (depart 7:40 am EDT for a 10:00 am CDT tour)	Tyndall, FL
	F July 12	Photochemistry Café - Dr. Susan Lattuner REU Seminar - Dr. Ed Hilinski - weekly review and update	DLC 123 3:30 p.m.



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Weeks 2 - 10 (continued)



	Date	Activity	Location, time
Week 8	T July 16	Photochemistry Café - Dr. Bryan Kudisch - w/breakfast	DLC 123 9:00 a.m.
	F July 19	REU seminar (student 15-min research presentations) 1. Presenter 1 2. Presenter 2 3. Presenter 3	DLC 123, 3:30 p.m.
Week 9	T July 23	Dinner with REU Students, In-Lab Mentors & Faculty	?Location, 6:00 p.m.
	T July 23	Photochemistry Café - Dr. Igor Alabugin - w/breakfast	DLC 123, 9:00 a.m.
	R July 25	REU seminar (student 15-min research presentations) 4. Presenter 4 5. Presenter 5 6. Presenter 6	DLC 123, 3:30 p.m.
	F July 26	REU seminar (student 15-min research presentations) 7. Presenter 7 8. Presenter 8 9. Presenter 9 10. Presenter 10	DLC 123, 3:30 p.m.
	Sa July 27	Coffee & Tea Conversations - Drs. Ed Hilinski & ???	10:30 a.m.
Week 10	T July 30	Photochemistry Café - Dr. Ed Hilinski - w/breakfast	DLC 123, 9:00 a.m.
	R Aug 1	Poster Session (student research presentations)	CSL lobby, 3:00 p.m..
	F Aug 2	Exit interviews and surveys	DLC 5 th Floor Conf. Rm.
	F Aug 2	REU seminar First Friday Festivities	DLC 123, 3:30 p.m. 6:30 p.m.

SaSu Aug 3-4 Student departures



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

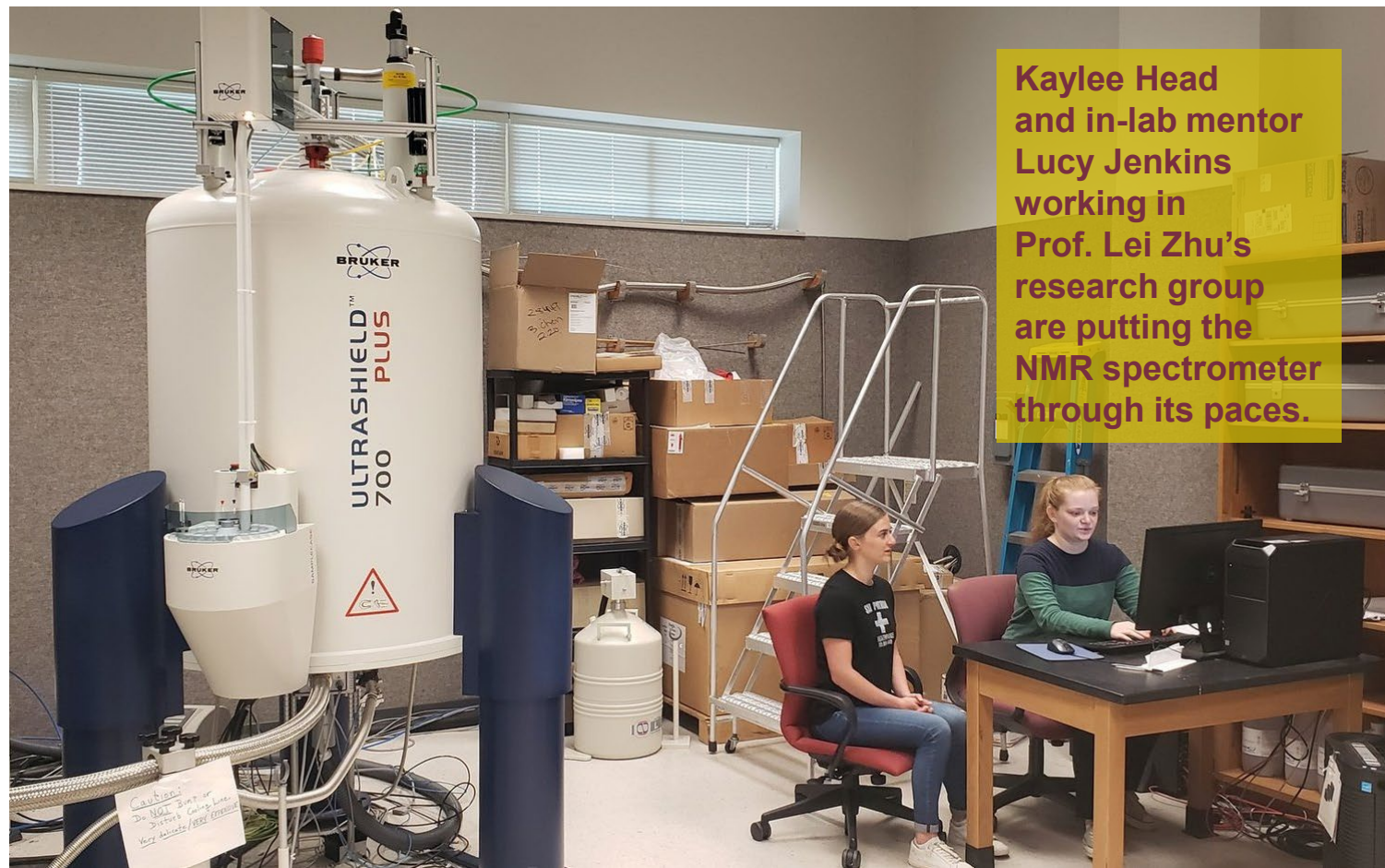
May 28, 2024 – DLC 123 with Ben Arline of FSU Environmental Health & Safety





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.



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Department of Chemistry and Biochemistry, Florida State University



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.





NSF-REU: Sunshine Institute for the Interaction of Light with Matter

Department of Chemistry and Biochemistry, Florida State University



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





NSF-REU: Sunshine Institute for the Interaction of Light with Matter

Department of Chemistry and Biochemistry, Florida State University



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 Satiel
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) Scaiano
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

<https://miami.zoom.us/j/91076429404?pwd=b05scFV2SElVY3RmRUVJRTRxMVV4Zz09JRTNzMVY4Zz09>

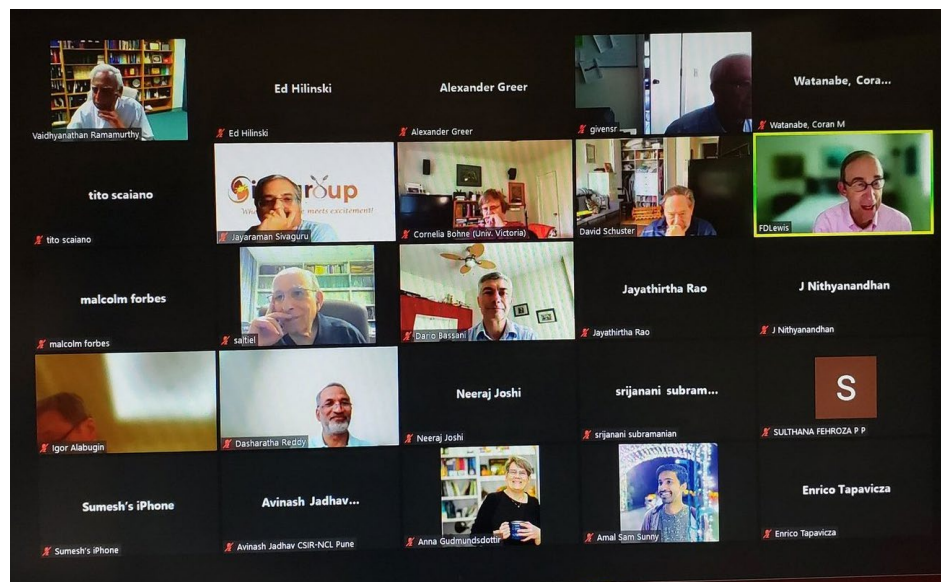
Meeting ID: 910 7642 9404; Passcode: 868219

Group Watch Party Saturday Seminar Series: Light as Reagent and Product

<https://miami.zoom.us/j/91076429404?pwd=b05scFV2SElVY3RmRUVJRTRxMVV4Zz09>

June 1, 2024

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





NSF-REU: Sunshine Institute for the Interaction of Light with Matter

Department of Chemistry and Biochemistry, Florida State University

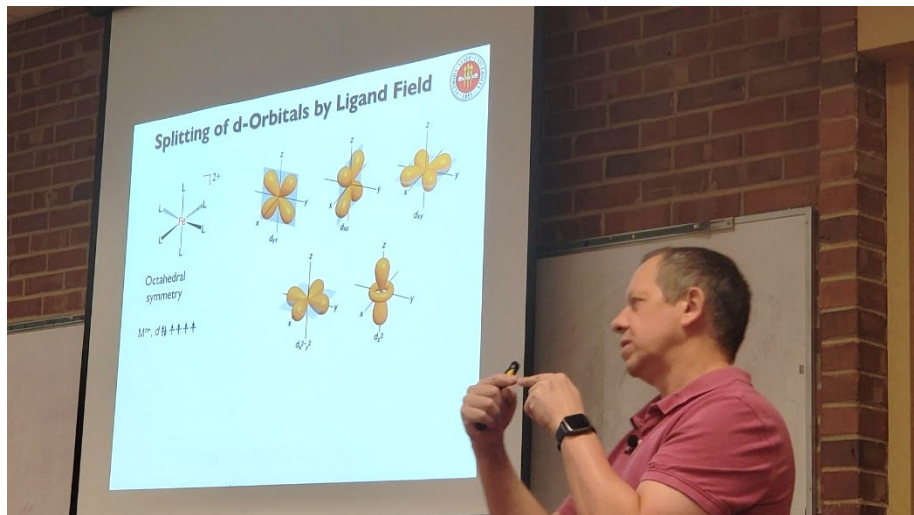


Trip to Wakulla Springs

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



2024/06/10 12:14:27



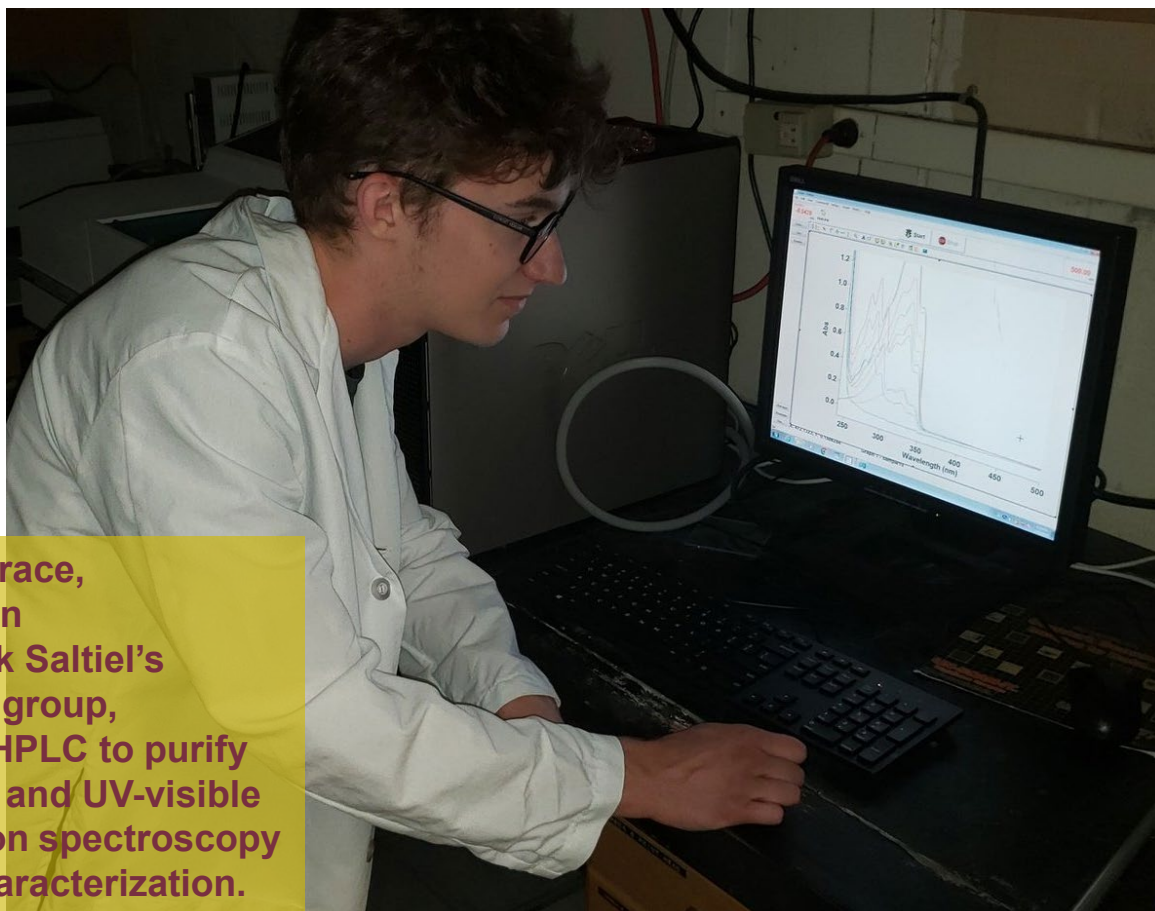


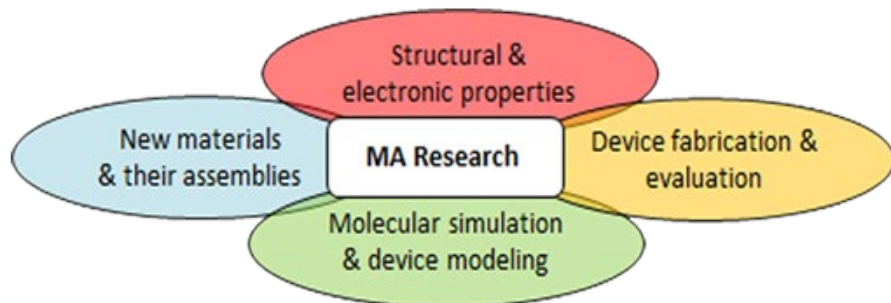
Multitasking in the Lab

June 10, 2024



Brody Farace, working in Prof. Jack Salties 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”

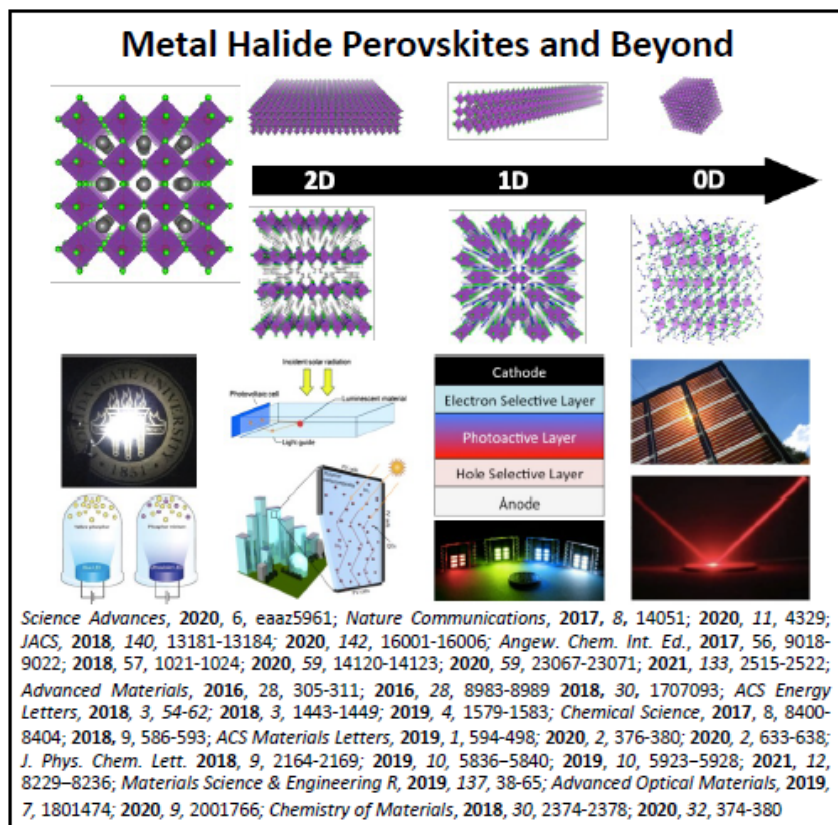
<http://www.chem.fsu.edu/reu-links/>

Prof. Biwu Ma

June 11, 2024, 9:00-10:00 a.m.
 DLC 123, Tallahassee, Florida



Metal Halide Perovskites and Beyond



Science Advances, 2020, 6, eaaz5961; *Nature Communications*, 2017, 8, 14051; 2020, 11, 4329; *JACS*, 2018, 140, 13181-13184; 2020, 142, 16001-16006; *Angew. Chem. Int. Ed.*, 2017, 56, 9018-9022; 2018, 57, 1021-1024; 2020, 59, 14120-14123; 2020, 59, 23067-23071; 2021, 133, 2515-2522; *Advanced Materials*, 2016, 28, 305-311; 2016, 28, 8983-8989 2018, 30, 1707093; *ACS Energy Letters*, 2018, 3, 54-62; 2018, 3, 1443-1449; 2019, 4, 1579-1583; *Chemical Science*, 2017, 8, 8400-8404; 2018, 9, 586-593; *ACS Materials Letters*, 2019, 1, 594-498; 2020, 2, 376-380; 2020, 2, 633-638; *J. Phys. Chem. Lett.* 2018, 9, 2164-2169; 2019, 10, 5836-5840; 2019, 10, 5923-5928; 2021, 12, 8229-8236; *Materials Science & Engineering R*, 2019, 137, 38-65; *Advanced Optical Materials*, 2019, 7, 1801474; 2020, 9, 2001766; *Chemistry of Materials*, 2018, 30, 2374-2378; 2020, 32, 374-380





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





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Department of Chemistry and Biochemistry, Florida State University



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

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



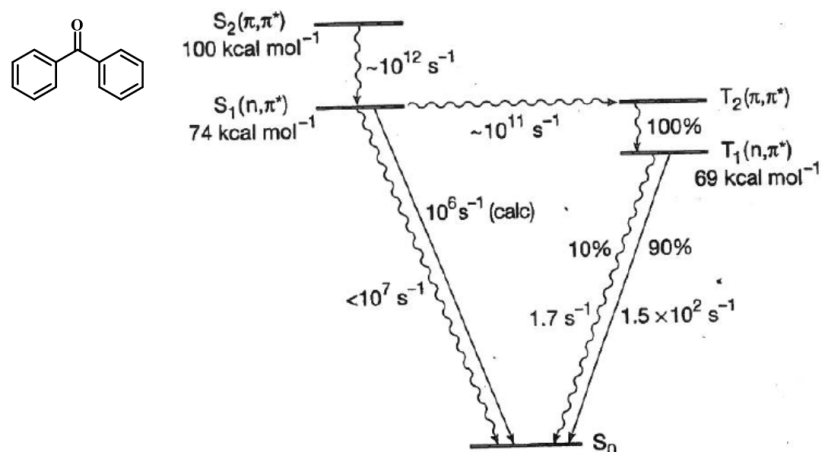
June 12, 2023, 11:30 a.m.-1:00 p.m.

Salty Dawg Pub and Deli, Tallahassee, Florida

<https://www.facebook.com/p/Salty-Dawg-Pub-and-Deli-100063995407700/>



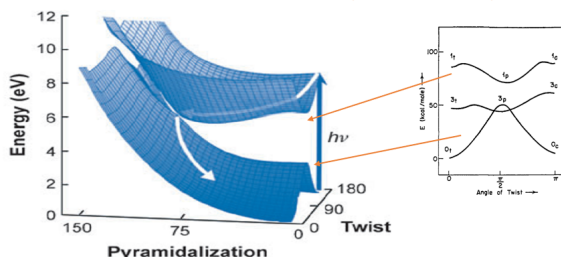
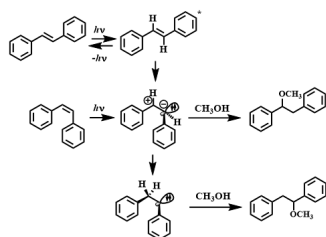
Benzophenone State Diagram



Bayrakçeken, F. (2008) *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 2008, 71(2), 603–608.

Multidimensional Isomerization – Conical Intersections – Trapping Twisted Intermediates

$$\bar{h}_{S_0S_1} = (E_1 - E_0)^{-1} \left\langle \psi_{S_0}^{el} \left| \frac{\partial \hat{H}}{\partial R} \right| \psi_{S_1}^{el} \right\rangle$$



Saltiel, J.; Gupta, S. Photochemistry of the Stilbenes in Methanol. Trapping the Common Phantom Singlet State. *J. Phys. Chem. A* 2018, 122, 6089-6099.

B. G. Levine, T. J. Martinez. *Amu. Rev. Phys. Chem.* 2007, 58, 613-34.

Photochemistry Café “Elementary Photophysical Transitions and Photochemical Reactions”

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

Prof. Jack Saltiel

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





Photochemistry Café

“Elementary Photophysical Transitions and Photochemical Reactions”

<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 Pêché Mignon French Pastry Shop
<https://www.frenchpastrytallahassee.com/>





NSF-REU: Sunshine Institute for the Interaction of Light with Matter

Department of Chemistry and Biochemistry, Florida State University



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



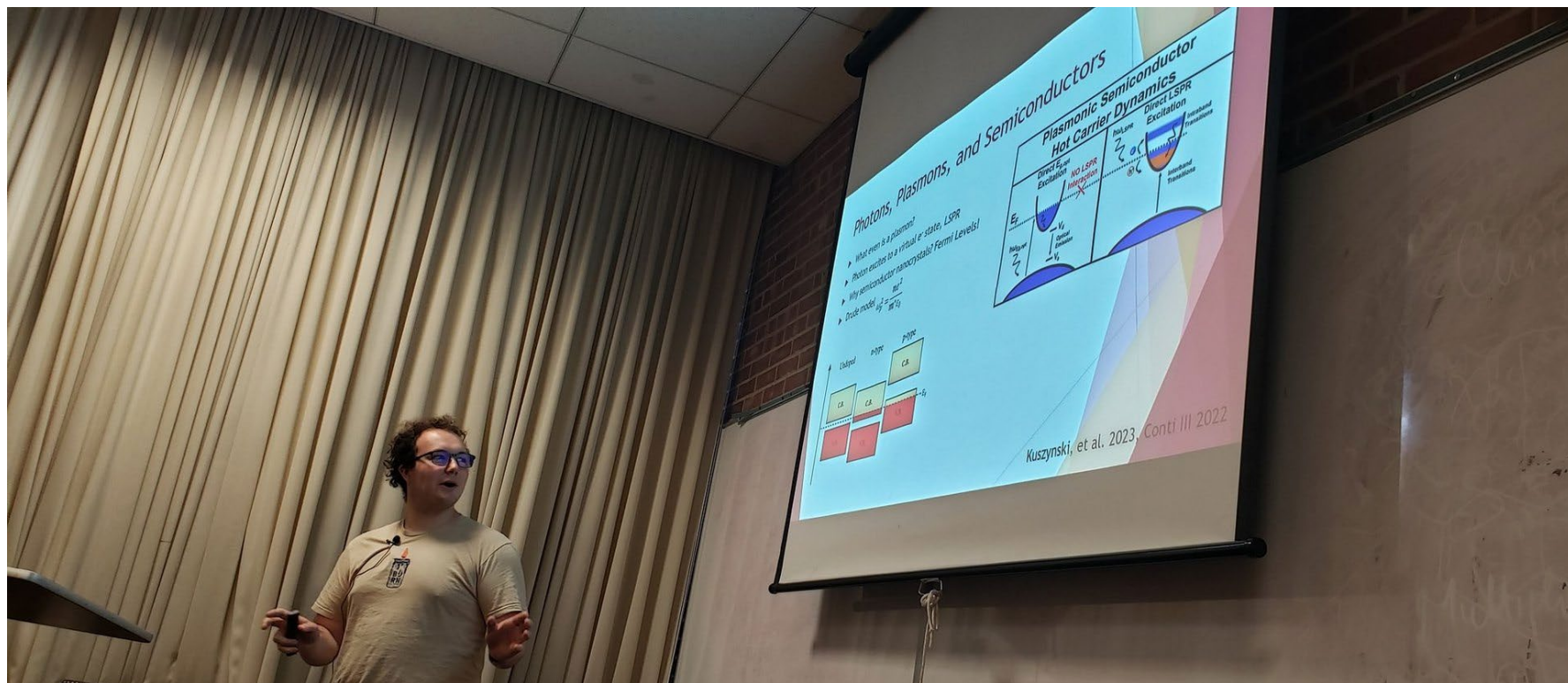


Student Research Presentation – Introductory Overview “Investigating Carrier Mobility Through Doped Plasmonic Semiconductor Nanocrystals”

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 Manny, Sahel Moslemi & Prof. Biwu Ma - Florida State University

July 21, 2024 - DLC 123, Tallahassee, Florida

THE FLORIDA STATE UNIVERSITY
CHEMISTRY & BIOCHEMISTRY

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

Cianna Chung, Tarannuma Manny, 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-2150301.

06/21/2024



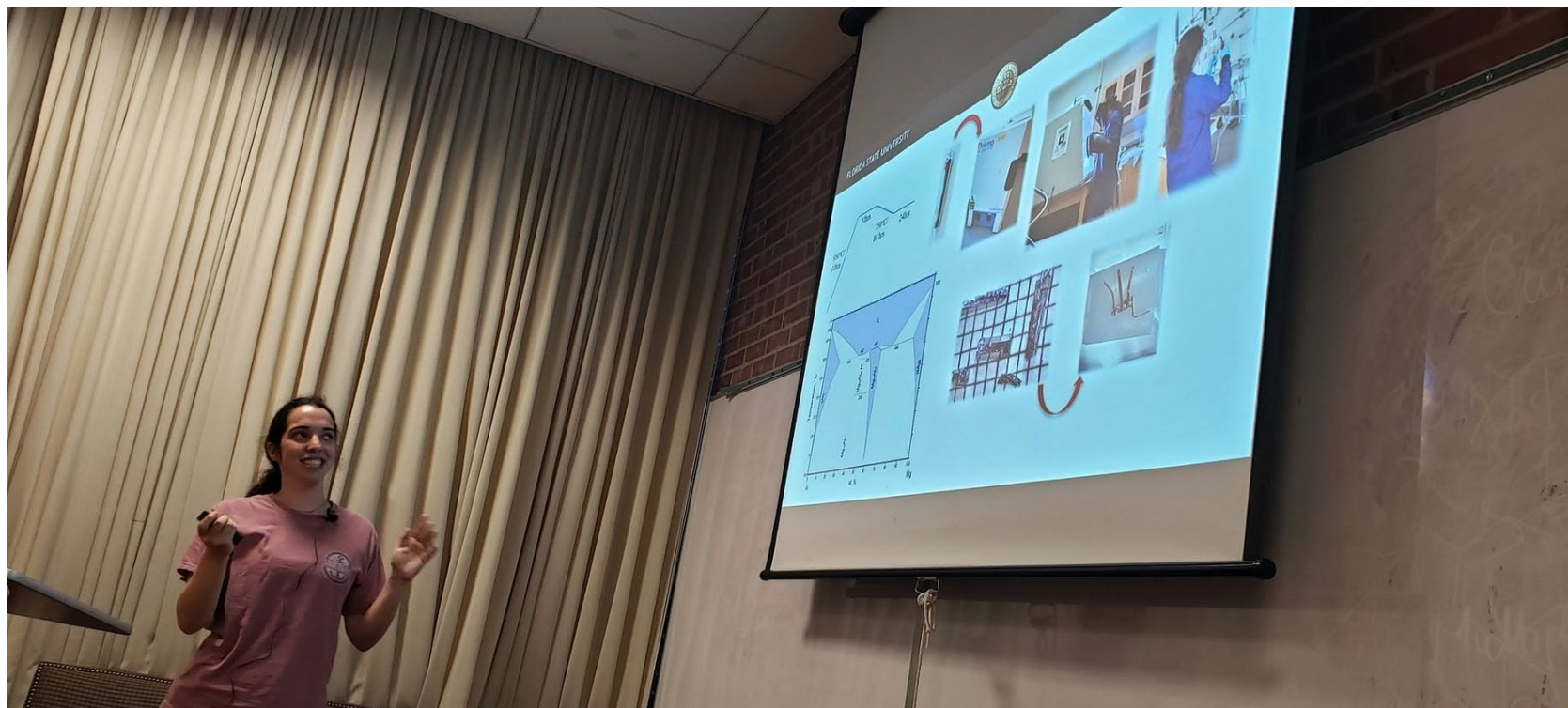


Student Research Presentation – Introductory Overview “Synthesis and Characterization of Ba/Ca Mg Silicide Zintl Phase from Mg Flux”

Taylor Walker – Misericordia University

Amir Zarei & Prof. Susan Lattuner - Florida State University

July 21, 2024 - DLC 123, Tallahassee, Florida





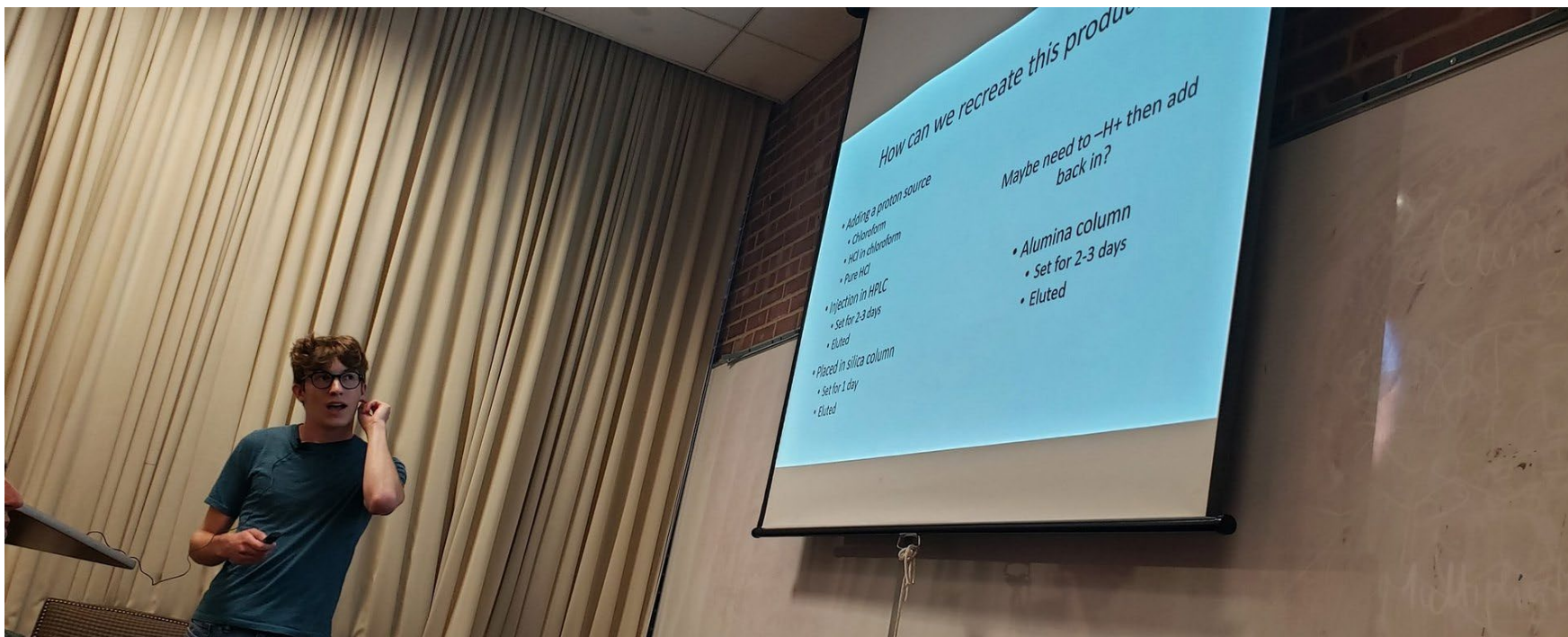
Student Research Presentation – Introductory Overview “Synthetic Pathways to Photoactive Organic Molecules”



Brody Farace – Lafayette College

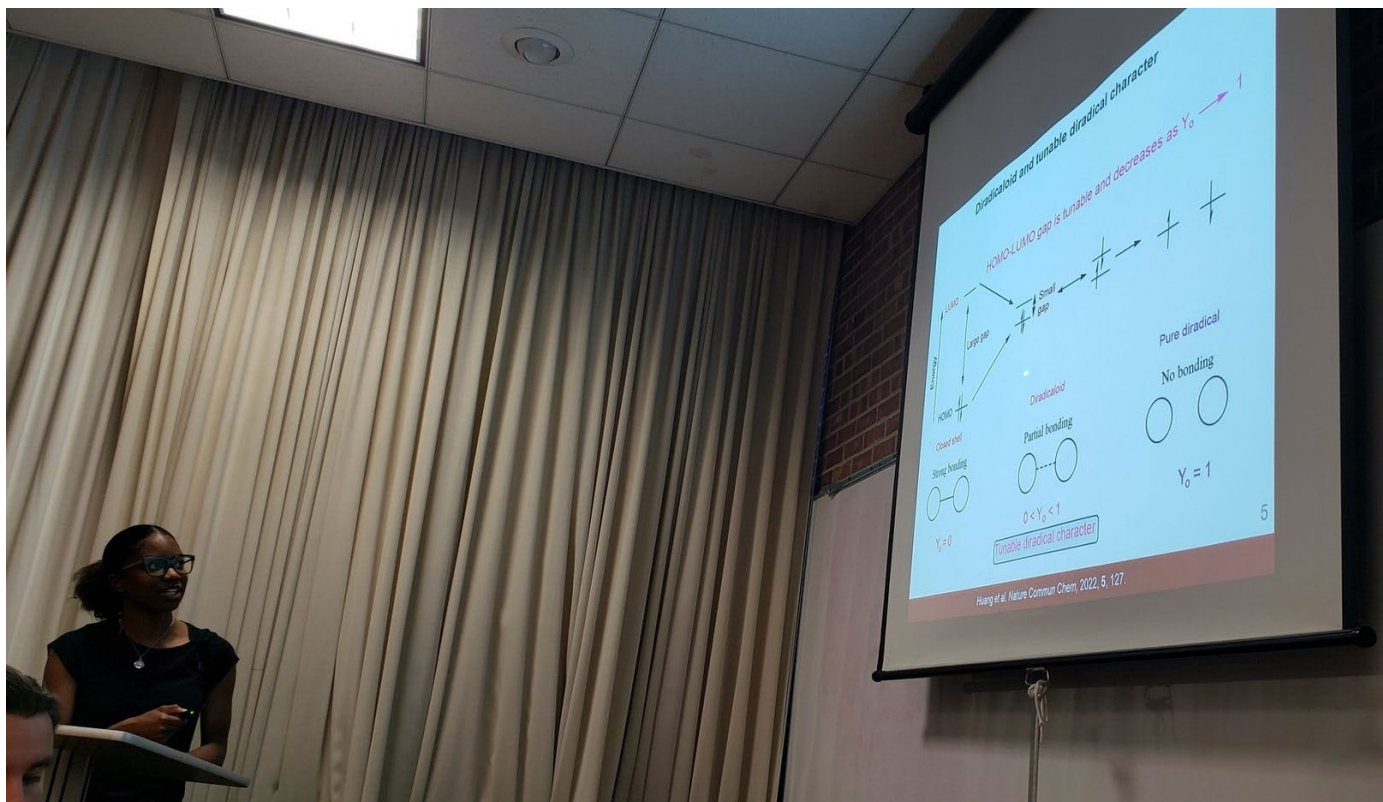
Sulthana Fehroza P.P., Fernando Melo & Prof. Jack Saltiel - Florida State University

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 BiCl_5^{2-} 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 “Vibronic Coupling to Hybrid Light-Matter States”

James Leone – Hendrix College

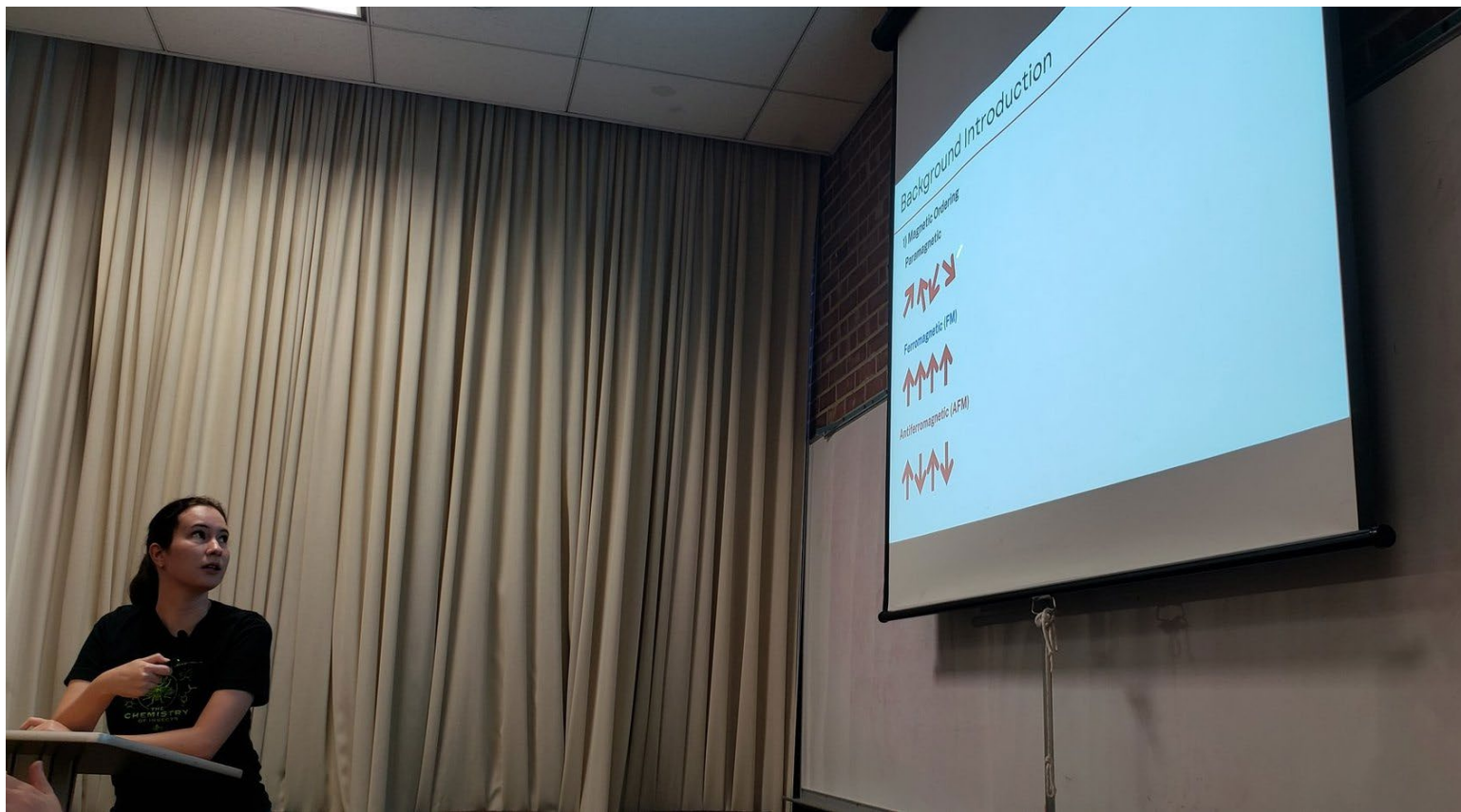
Justin Phillips & Prof. A. Eugene DePrince - Florida State University

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

<https://www.floridastateparks.org/parks-and-trails/florida-caverns-state-park>

June 22, 2024 - Marianna, Florida with Dr. Ed Hilinski



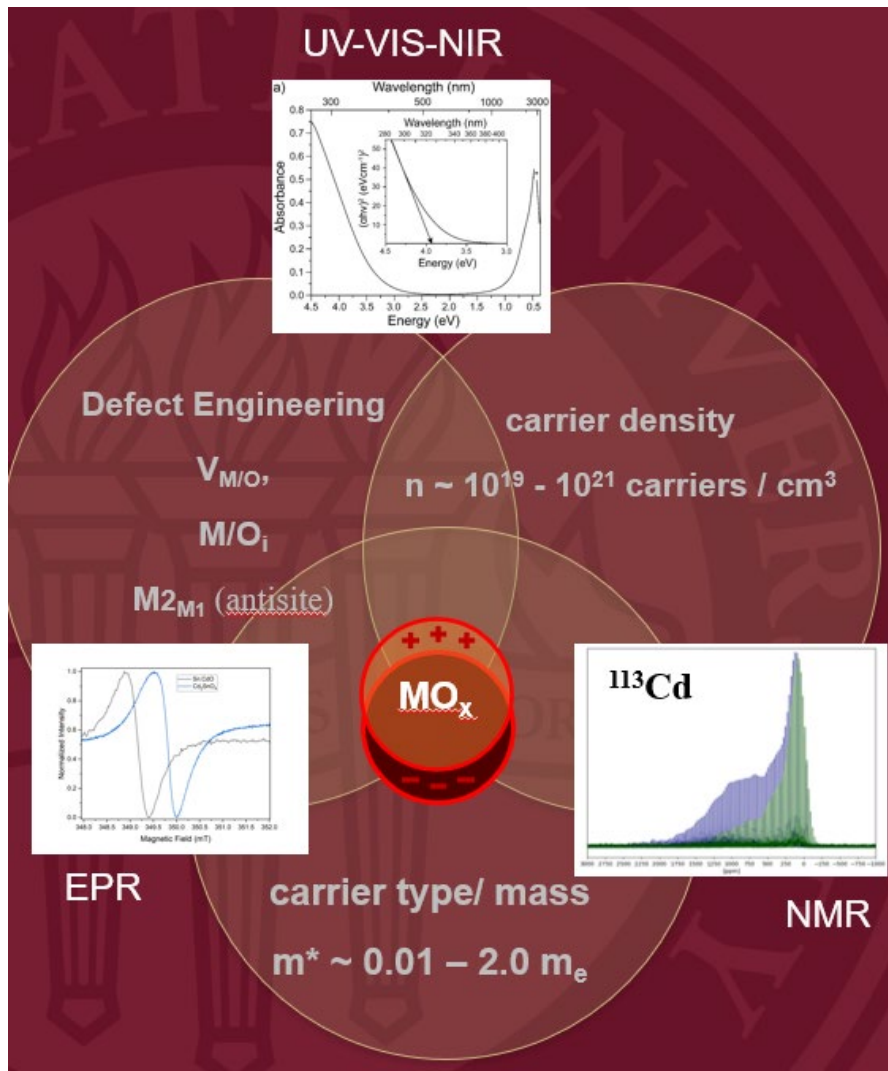


After the Caverns, Taqueria Miranda

<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

