

# Welcome to the Local Section Leaders Track



**Please sit at a table of your choice but  
don't get too comfortable....**

American Chemical Society

# Welcome and Introduction 2024 ACS Leadership Institute Local Section Track

January 26-28, 2024



# HOUSEKEEPING

- Restrooms
- Wifi
- **ADD**
- Phones
- Questions

THANK YOU

# LSAC Mission and Vision



## MISSION

- Providing opportunities, resources, training, and networks to partner with and serve diverse member communities.

## VISION

- Vibrant local section enriching the lives and careers of members.

# COMMITTEE ON LOCAL SECTION ACTIVITIES (LSAC)



Role: Assist, nurture, inspire, support, and recognize local sections

- Help local sections to be all they want to be
- Review annual reports
- Stimulate LS programs and initiatives
- Address general development needs
- Leadership development of new volunteers
- Administer grants to local sections
- Outstanding Performance and LSAC ChemLuminary Awards

# Staff Support: Office of Component Services



- Provide programmatic and infrastructure support to local sections and their leaders
- Oversee annual reporting process
- Administer grant programs
- Process allotment and dues payments
- Facilitate communications to Local Sections
- Support LSAC

**Contact: [olsa@acs.org](mailto:olsa@acs.org)**

# 2024 Leadership Institute Goals



**The goal of the 2024 Leadership Institute is to support and enhance the development of ACS leaders.**

**Attendees will have the opportunity to:**

- Learn the responsibilities of a new volunteer role
- Share best practices
- Develop leadership and management skills
- Engage with other attendees to foster new peer-to-peer networks



# 2024 Local Section Track Goals



## Provide local section chair-elects and leaders with tools and resources to be successful:

- examples of successful activities
- an opportunity to generate ideas about an activity and develop it
- instruction on using social networking in your local section
- guidance to obtain help and what grants are available
- a forum to connect with other local section leaders
- a venue to discuss common concerns and how to measure your successes
- networking opportunities to identify and evaluate best practices from other section leaders and ACS staff

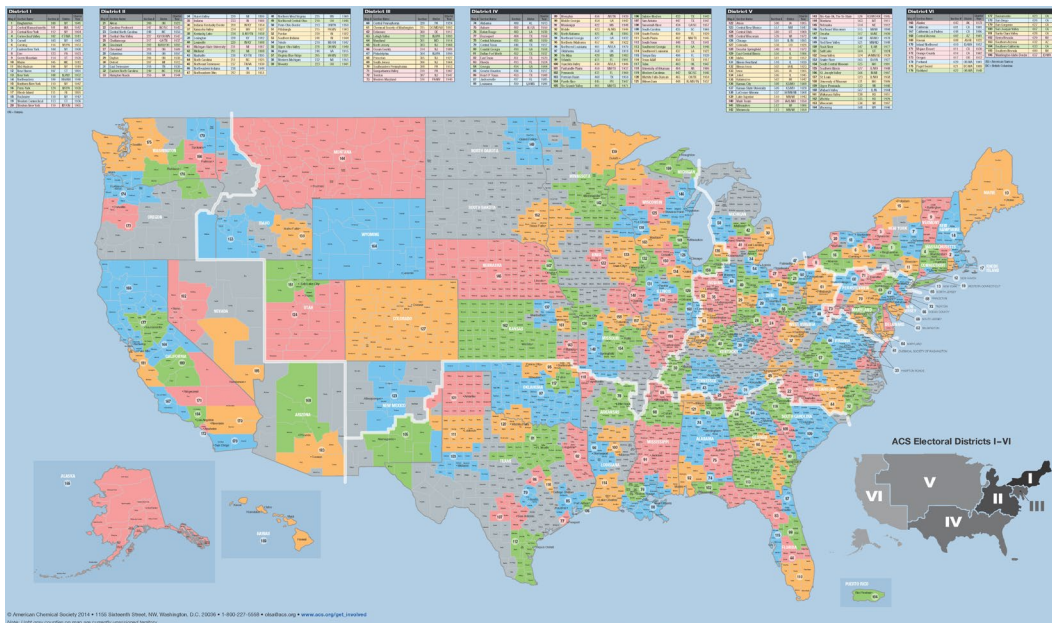
# What Are Your Goals?

American Chemical Society

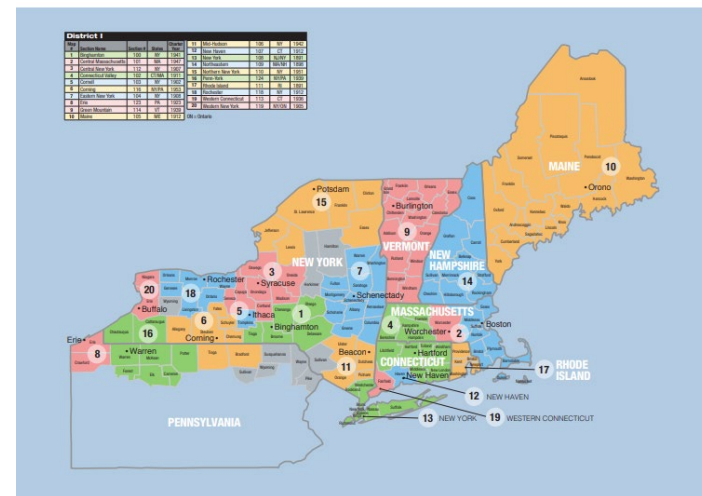


# Things You Need to Know

# ACS Local Sections



## American Chemical Society Electoral District I



# Local Sections at a Glance



- All members are initially assigned (based on zip code) but may opt to join another section
  - Every section is different
    - Based on size, location, institutions, resources, etc.
    - Offers opportunities for uniqueness
  - Successful sections share common characteristics
    - Engaged leadership and active volunteers
    - Diverse slate of activities
    - Leverage ACS programs resources
    - Sound infrastructure and effective communication strategy
    - Actively engaged in their communities (schools, science museums, etc.)
    - Ability to adapt.
-

## Who's here?

- 116 Delegates Representing 93 Local Sections registered for this weekend's Leadership Institute
  - Chair-elect 49
  - Chair 25
  - Treasurer 3
  - Secretary 9
  - Councilor 11
  - Other 23

# Responsibilities of Local Sections



- Maintain a functioning Executive Committee of Officers and Councilors
- Organize activities, meetings, events
- Be fiscally responsible:
  - Set and monitor budget
  - Provide timely tax filing to IRS and ACS (tax umbrella) each year
- Communicate with membership
- Hold valid elections each year (in compliance with bylaws)
- Submit Councilor certification and Officer information to ACS by December 1
- Complete Section Annual Report by February 15

# Key Actions for New Officers

- Know your members (examine eRosters and demographic information)
- Review your bylaws; do they need to be updated?
- With Executive Committee, draft a budget and monitor spending
- Know process for completing the annual reports on time.
- Start planning meetings and activities for the coming year. Get buy-in from Executive Committee!
- Succession planning begins now.



# Local Section Bylaws

- Name, Territory
- Manner of Election, Terms of Office
- Awards
- Duties of Officers
- Committees
- Meetings

Links to certified copies of all local section bylaws, as well as guidelines for amending bylaws can be found on [www.acs.org/localsections](http://www.acs.org/localsections)

# ANNUAL BUDGET



- Sets policies and match with goals
- Provides useful guidance for section leaders
- Shows what is needed to run the section
- Identifies projected income and expenses
- Indicates resources available for programs
- Helps ensure that the minimum treasury requirements are met
- Enables trend comparisons from previous years

# BUDGETING: INCOME



- Annual allotment (after Annual Report is submitted)
- Voluntary local section dues
- Councilor reimbursement
- LSAC Grants (more on this later)
- Registration Fees
- Sponsorships General for year; Specific for an event
- Shared costs with other groups
- Donations
- Interest on bank accounts or investments

# BUDGETING: EXPENSES



- Meeting Expenses (Room rental, F&B, AV)
  - Awards/Scholarships
  - Administrative Expenses
    - Printing/Mailing, Supplies
  - Hands-on Activities
  - Meals
  - Travel (Councilor Reimbursements, Leadership Institute)
  - Professional Fees/In-dependent contractors
    - Paid Admin Staff (larger local sections), Auditor/Accountant
    - IT Support (Website, bulk email, registration fees)
-

# BUDGETING: EXPENSES



- Agreed upon by Executive Committee
  - Guided by policies, matched with goals
  - Deliver value for intended audience
    - Community activity
    - Member activity
    - Student activity
  - Modify budget as needed, with appropriate justification
-

# Guidelines for Expenses



- In formulating fiscal policy, sections should evaluate their activities to be certain they are in agreement with their mission, which is the basis for their tax-exempt status.
- Generally, if the activity is appropriate, the necessary expenditures to promote that activity will also be appropriate.
- **In general, the Society and its local sections are prohibited from making expenditures that benefit individuals or profit-making organizations, promote legislation, or support or oppose a candidate for public office.**

American Chemical Society



# ACS Bingo

# Time for Breakouts

- Please review the Local Section Track Agenda in your folder for a list of available workshops.
  - Planning Successful Activities, A & B in this room
    - Group A Stay Here
    - Group B Choose 2 Breakouts (40 minutes each)
      - Funding and Awards Workshop, Augusta H
      - Communicating with Your Members Workshop, Augusta G
      - Outreach Resources for Your Members Workshop, Augusta 3
    - Getting Back On Track (Invitation only) Augusta A
- After the mid-afternoon break please return to your workshops.
  - Group A Breakouts
  - Group B Planning Successful Activities



American Chemical Society



Welcome Back  
SATURDAY 2:00 – 5:00PM



# Increasing Trust in Science and Scientists: Grants Coming Spring 2024

- Organized by Roundtable including CPRC, CCPA, and PROF.
- Based on work of Judy Giordan during her term as ACS president.
- Builds off Trust in Science workshops, “Proud to be a Chemist,” Science Riot workshops on Trust.
- Now is the time for your division, local section, or volunteer to GET INVOLVED!!
- Grants from \$1500 to \$4500 to build effective programs and initiatives increasing trust in science and scientists!
- First submissions due June 1<sup>st</sup> – Submission page to come!

Proposals will be considered for effectiveness in addressing Trust in Science and Scientists through:

**1. Community Outreach:**

*Does the project have a meaningful public outreach component. Priority to reaching new groups.*

**2. Impact:**

*The estimation or goal for the project in terms of number of people affected, processes improved, goal(s) met, tools developed, etc.*

**3. Leveraging Volunteers:**

*The extent of effort and number of volunteers dedicated to the project.*

**4. Marketing Plan:**

*Does the project have a plan for getting the word out.*

**5. Inclusiveness:**

*How the project addresses inclusivity and how it will support ACS Goals.*





Awards ▾ Programs ▾ BILL Talks Library



### neXus Regional Meeting Grants

Helping Regional Meeting planners coordinate **neXus events** where academics, industrial chemists, government labs, and start-ups collaborate to develop regionally relevant technology, solutions, and products.

NOW ACCEPTING APPLICATIONS.



- **APPLY NOW!** Regional Meeting Planning Teams - bring together ACS members and others from academia, industry, the venture community, and governmental labs to cross-interact, network and maybe even find ways to collaborate after the meeting to address a regionally relevant market/technical problem.

- neXus Regional Meeting Grants, sponsored with funding from BMGT, can provide up to \$2000 per 2024 ACS Regional Meeting! Learn more about the process and neXus at <https://bmgt.org/programs/nexus-regional-meeting-grants/>



# 2024 Anniversaries



- **125 Years: Huron Valley, Philadelphia**
- **100 Years: Central PA, Florida, Salt Lake**
- **75 Years: Ouachita Valley, San Gorgonio, Upper Ohio Valley**

# 2025 Anniversaries

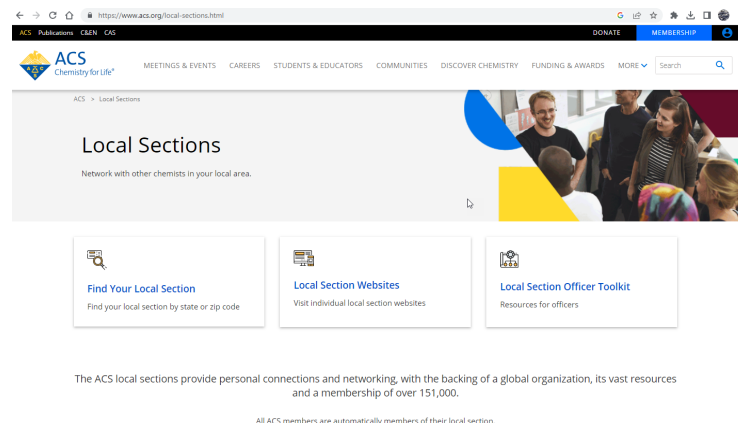


- **125 Years: Kansas City**
- **100 Years: North Jersey**
- **75 Years: Auburn, Central Arkansas, Central North Carolina, Mark Twain, Penn Ohio Border**

# Local Section Officers Toolkit



- Local Section Officers Toolkit
  - eRosters
  - Annual Reporting
  - Managing Your Local Section
  - Grants and Funding Opportunities
- Local Section Look-up
- Local Section Websites



[www.acs.org/localsections](http://www.acs.org/localsections)

# Officer Insights – Newsletter Digest



- Published Monthly (1<sup>st</sup> Friday Each Month)
- Timely Updates and Announcements from Across the Society
- Grant Announcements and Deadlines



**Local Section Officers** **January 2024**

*Please see below for important information and updates*

Dear Local Section Leader,

We are excited to start off this new year by welcoming our new ACS Local Section officers! As part of our ongoing Monthly ACS Webinar Series, we will be hosting the **"Welcome New Local Section Leaders"** webinar on **January 17, 2024 from 1:00 - 2:00 PM EST**. This is a great opportunity to connect with other leaders and learn more about the upcoming Leadership Institute and tracks featured for local section officers. I encourage you all to **register now** and join us if your schedule allows it. I would also like to draw your attention to the impending deadline for the Local Section Innovative Program Grant (IPG). Read below, to learn more and submit your application today.

Beth Lorschach,  
Chair, Local Section Activities Committee

#### **Apply Today: Local Section Innovative Program Grants (IPGs)**

Ignite innovation and community strength with the Local Section Innovative Project Grant. Administered by ACS LSAC, this grant offers up to **\$3500** to empower the local section in innovative events and activities. Apply by **January 15, 2024**, and stimulate member and local section involvement. Please review grant details [here](#). Let us pioneer change and forge lasting community connections. Learn more, [gain inspiration from other local sections](#), and [apply now](#).

**Register Now: ACS Leadership Institute January 26 - 28, 2024**  
**Atlanta, GA**

We are pleased to announce that registration for the 2024 ACS Leadership Institute is now open. All Local Sections are encouraged to send a delegate(s) to attend this important



# Upcoming Monthly Webinars



- Get Ready for Chemist Celebrate Earth Week February 21
- Social Media in Your Local Section March 27
- Involving Industry Members in Your Local Section April 17
- Trust in Science May 15
- Planning Successful Activities June

Register at <http://www.acs.org/localsectionwebinars>

# Previously Held (Recorded) Webinars



- Advancing Inclusion to the Next Level with your Local Section October 19, 2023
- Robert's Rules of Order for Effective Meetings November 15, 2023
- Local Sections Annual Reporting Webinar December 13, 2023
- Welcome New Local Section Leaders January 17, 2024

Recordings at <http://www.acs.org/localsectionwebinars>

# ACS Speaker Directory



- A resource for our component group leaders to access a wide range of speakers for their in-person, hybrid, and asynchronous events.
- The directory provides users with access to over 1,000 speakers who are available to present technical science talks, lead career development & professional advancement presentations, explore general interest, popular science topics, and more.
- All local sections are highly encouraged to use this resource.

The graphic is a vertical rectangular panel with a yellow background and blue accents. At the top left is the ACS logo. Below it, there are four circular inset images showing diverse individuals: a woman with curly hair speaking, a man with a beard speaking, a woman with glasses at a podium, and a woman with curly hair speaking. To the right of these images is a blue box with white text that reads 'ATTENTION LOCAL SECTION LEADERS:'. Below this is a paragraph of text, followed by a list of three bullet points. At the bottom right is a QR code. The bottom of the graphic has a dark blue bar with white text for contact information and a hashtag.

**ACS**  
Chemistry for Life®  
American Chemical Society

**ATTENTION LOCAL SECTION LEADERS:**

Are you looking for a speaker for your next meeting or event? The ACS Speaker Directory can help connect you with ACS members who want to share their expertise and passion for chemistry.

ACS is proud to present the ACS Speaker Directory – a resource for local section leaders to access a wide range of speakers for their in-person, virtual, hybrid, and asynchronous events.

Browse the ACS Speaker Directory to:

- Review speaker bios and talk topics
- Find the right speaker for your intended audience and event.
- Connect with speakers from around the world.

The ACS Speaker Directory is designed to be an easy way to access a diverse group of global speakers. This new resource provides access to hundreds of speakers available to present technical science talks, lead career development & professional advancement presentations, explore general interest, popular science topics, and more.

Check out the ACS Speaker Directory today at [acs.org/speakerdirectory](https://acs.org/speakerdirectory)



Questions? Email [lear@acs.org](mailto:lear@acs.org)  
**#ACSSpeakerDirectory**

American Chemical Society



# DEIR Moment

American Chemical Society



# ACS DEIR

January 2024 Leadership Institute

Michelle Cummings- CWD Past Chair

# ACS Strategy Goals

Keyword: Strategic Plan



## Goal 5- Embrace and Advance Inclusion in Chemistry

Promote diversity, equity, inclusion, and respect; identify and dismantle barriers to success; and create a welcoming and supportive environment so that all ACS members, employees, and volunteers can thrive.

---

# National Diversity Committees

Chemists with Disabilities- **CWD**

Minority Affairs- **CMA**

Senior Chemists- **SCC**

Women Chemists- **WCC**

Younger Chemists- **YCC**

International Activities- **IAC**

Technician Affairs- **CTA**

\*\*All sponsor ChemLuminary Awards

---

**YellowBook- Current year  
committee contacts**

## Resources

Keyword: DEIR



Inclusivity Guide

Volunteer and Meeting Code of Conduct

ACS Publications and Webinars on Diversity

DEIR Educational Resources

Inclusion Moments

Inclusive in-person events

<http://www.acs.org/deir>

---



**CWD Vision**



# **Making Chemistry Accessible to All**

---

## Accommodations Grant

- Provide support to enhance the inclusiveness of Regional or Local meetings
  - 3 months prior to the first day of the meeting
  - A maximum of \$1,000 can be awarded
  - Follow-up report will be due within 3 months after event
- 
- <http://www.acs.org/cwd>
-

## Travel Award

- Encourage and support the participation of undergraduate/graduate students and postdocs with disabilities
  - present a talk or poster at a Spring or Fall ACS Meeting
  - Up to \$3,000 is awarded per recipient.
- 
- <https://www.acs.org/about/governance/committees/chemists-with-disabilities/awards.html>
-

## ChemLuminary Award

- Promote educational and professional opportunities in the chemical sciences and in fields requiring knowledge of chemistry for persons with disabilities
  - Recognizes events to help educators, advocates and families of persons with disabilities
  - Outstanding events that demonstrate pertinence to the CWD mission, activities accessible to the audience and program impact on the target audience
  - <https://www.acs.org/about/governance/committees/chemists-with-disabilities/awards.html>
-



# Diversity, Equity, Inclusion and Respect at ACS

Meredith Harkel (she/her)

ACS Leadership Institute, January 2024

## Goal 5

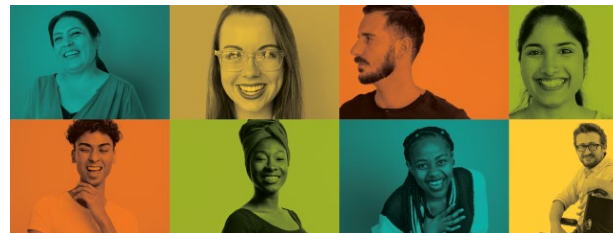
# Embrace and Advance Inclusion in Chemistry

Promote diversity, equity, inclusion, and respect; identify and dismantle barriers to success; and create a welcoming and supportive environment so that all ACS members, employees, and volunteers can thrive.



## Success of Goal 5 looks like...

- An environment where all have a sense of belonging across every level of the Society
- Leaders at all levels are prepared, ready, and accountable for displaying DEIR
- Acknowledgements and recognitions are reflective of our community
- Communication is transparent, accessible, and consistent to promote awareness of resources, policies, and opportunities throughout the Society



# The Office of DEIR is the central hub





# Grow Your DEIR Skills

---

# Popular DEIR Resources

- **ACS Inclusivity Style Guide**, recommendations for inclusive communication, including:
  - Best practices for language on gender, race and ethnicity, health, and more
  - Guidance on choosing images
  - Recommendations to make your content more accessible
- **Educational Resources Guide**, a curated list of articles, videos, podcasts, and book recommendations on common DEIR topics and terms
- **Tip Sheets**, handy guides to reference as you plan

# Find Us, Contact Us



- **Visit our website: [www.acs.org/diversity](http://www.acs.org/diversity)**
  - Access free resources on DEIR
  - Find links to partner organizations websites, programs with a focus on equity and inclusion
  - Find links to ACS Governance Committees with a demographic focus
  - View reports, webinars, and other activities related to DEIR
- **Email the Office of DEIR: [diversity@acs.org](mailto:diversity@acs.org)**

# Inclusive Events

---

## Tips for Event Locations

- Always hosting your Local Section social gatherings at a pub or bar?  
Consider an alcohol-free location occasionally
- Ensure there is restroom access for all genders and abilities
- Embrace hybrid events, but plan them as if they are two events
  - Consider both the in-person and online experiences, and have people dedicated to supporting each of them

## Tips for Hosting Speakers

- When selecting speakers or panelists, actively seek out individuals from underrepresented communities in STEM
- When inviting the speaker(s), consider the context in which they are attending:
  - Do they typically participate as part of the ACS community or is this a unique invitation for them? If not, consider covering travel costs and/or providing an honorarium.
- Confirm you know the correct spelling and pronunciation of your speaker's full name and their pronouns before introducing them

**Thank you!**

**Contact us anytime at [diversity@acs.org](mailto:diversity@acs.org)**

---

American Chemical Society



# Local Section Photoshoots





ACS

Chemistry for Life<sup>®</sup>

American Chemical Society

2024 Membership Campaign

*Real Members. **Authentic Creative.***

# Current & Previous Campaign Creative



Pivot from selling membership as a product,  
to selling **Community**

ACS  
Chemistry for Life®

**Scientific information  
is *just* the beginning**

Explore the many benefits of membership  
in the American Chemical Society

[Learn more](#)

ACS  
Chemistry for Life®

**Passion.**

Share yours with membership in the  
American Chemical Society.

[Join Now](#)

ACS  
Chemistry for Life®

**Educational materials  
with substance**

Membership in the American Chemical Society  
offers the education resources you need

[Learn more](#)

ACS  
Chemistry for Life®

**Your future in chemistry starts here**

Get connected to the American Chemical  
Society with a student membership

[Learn more >](#)

# Our Connection Challenge

*“ACS membership no longer holds a prominent position in the minds of its members/prospective members.”*

## Our Goal

**Make  
people feel  
like they belong  
in ACS**

**How?**

**Relevance and  
authenticity**

**Media placements  
that meet them  
where they are**

# WE ARE WIRED TO BELONG

## Status & Self-esteem

When we are members of a group that is perceived to be important by others, we feel recognized and experience a sense of power and self-worth.

## Achievement

Groups help in achieving such goals which cannot be attained individually

## Knowledge & Information

As individuals, we may not have all the required information. Groups supplement this information and knowledge to broaden our view.

# Phase 1: Pilot Stock Imagery

A photograph of a man with a beard and glasses, wearing a white lab coat, smiling and making a heart shape with his hands. The background is a bright, yellowish-white laboratory setting.

**BECAUSE  
PEOPLE  
LIKE YOU  
CREATE  
GREAT  
CHEMISTRY.**

You belong here.

The ACS logo is located in the bottom right corner of the advertisement.

The campaign launched with stock images in November 2023 and will run through January 2024.

The campaign prioritizes high impact digital display opportunities to showcase and measure the new creative with a 60/40 spend (Academic/Industry split)

Latest Issues

# SCIENTIFIC AMERICAN

COVID Health Mind & Brain Environment Technology Space & Physics Video Podcasts Opinion

More Video

ACS Chemistry for Life

MarketWatch | IB

# THE WALL STREET JOURNAL.

English Edition | Print Edition | Video | Audio | Latest Headlines | More

World Business U.S. Politics Economy Tech Finance Opinion Arts & Culture Lifestyle Real Estate Personal Finance Health

56P500	Nasdaq	Russell 2000	U.S. 10 Yr	VIX	Gold	Bitcoin
4716.37	14601.97	1967.57	4/32 3.957%	13.37 -5.38%	2065.50	43679.71
0.59%	0.63%	0.50%			0.76%	

About Evan | His Family Reflects | His Reporting | How You Can Help | Write a Message | Life in Detention | Latest News | Get Email

ACS Chemistry for Life

TheScientist Daily

Explore Life Science Every Weekday

Advertisement December 12, 2023

BECAUSE PEOPLE LIKE YOU CREATE GREAT CHEMISTRY. You belong here. JOIN US

ACS Chemistry for Life

### Mean, Green, Antibody-producing Machines

By Shelby Bradford, PhD

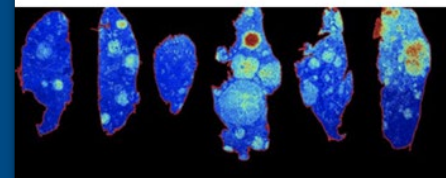
A plant-based monoclonal antibody goes head-to-head with its commercial counterpart to target tumors in mice.

ACS Chemistry for Life

Forbes ADVISOR

ACS Chemistry for Life

Advertiser Disclosure | PRODUCT LIABILITY



### Glycogen Metabolism May Play a Key Role in Pulmonary Fibrosis

By Charlene Lancaster, PhD

Researchers discover that glycogen and N-linked glycans accumulate in fibrotic regions of the lung and may be important for therapy development.

Because People Like You Create Great Chemistry

The American Chemical Society supports chemists like you in all forms of science. ACS Members receive unparalleled publishing assistance, career resources, leadership opportunities

iHireChemists

Job Seekers | En

ACS Chemistry for Life

Advertisement

ACS Chemistry for Life

In-Market Ads

## Phase 2: 2023 - 2024

### US Photoshoots

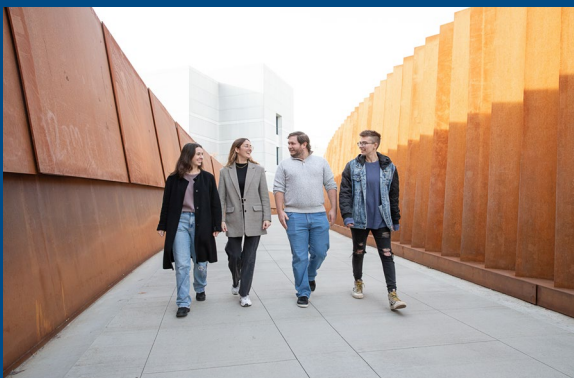
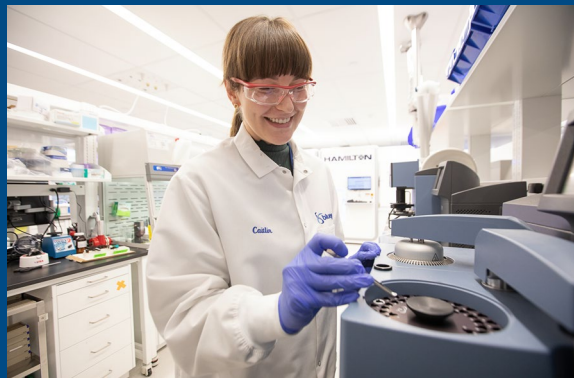
- Q4 2023 - Boston
- Q1 - San Diego - HP
- Q2 - Southeast region
- Q3 - Midwest region

### International Photoshoots (*dates TBD*)

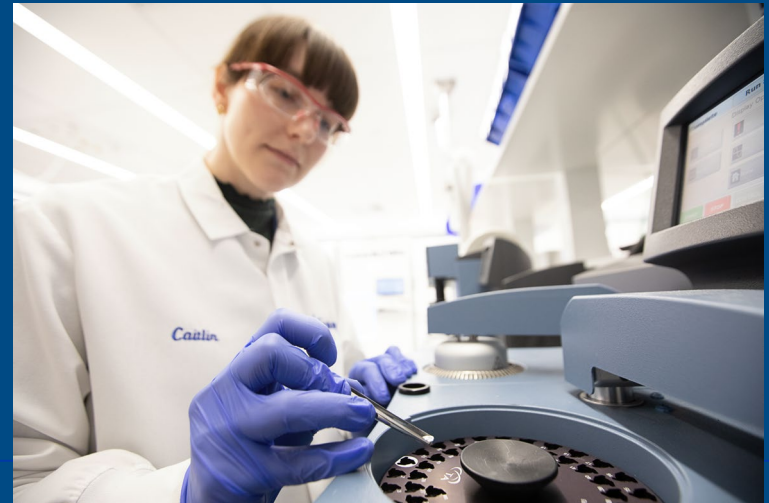
- India
- Latin America

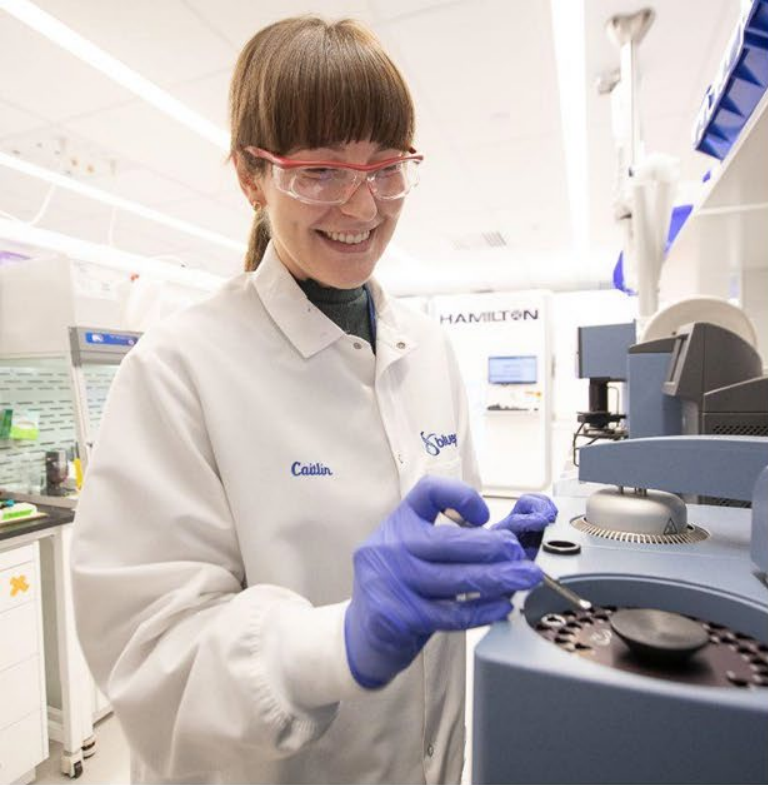
# Boston Photoshoots

## Blueprint Medicines and Northeastern University









## Caitlin Kinkema

Senior Scientist at  
Blueprint Medicines

Caitlin is a medicinal chemist, works in preformulation, works with project SEED as a mentor to ACS interns on various analytical/gen chemistry projects

ACS  
Member  
Since  
2023

Project SEED  
mentor



## Letícia Adão Gomes

Computational Chemistry  
PhD Candidate at  
Northeastern University

Letícia is a second-year Ph.D. candidate from Rio de Janeiro, Brazil. She earned a Bachelor's degree from Suffolk University in 2021. Letícia is using high-throughput virtual screening calculations to identify novel organic photoredox reactions.

**ACS  
Student Chapter  
Vice President**

Suffolk University  
Aug 2019 - May 2021

**ACS  
Member  
Since  
2019**

**Chair-Elect  
Younger Chemists  
Committee  
NSYCC - ACS**

300x600

**BECAUSE PEOPLE  
LIKE YOU CREATE  
GREAT CHEMISTRY.**



You belong here.

JOIN US >



**ACS**  
Chemistry for Life®

AMERICAN CHEMICAL SOCIETY

300x250

**BECAUSE  
PEOPLE  
LIKE YOU  
CREATE  
GREAT  
CHEMISTRY.**



You belong here.

JOIN US >



**ACS**  
Chemistry for Life®

AMERICAN CHEMICAL SOCIETY

728x90

**BECAUSE PEOPLE  
LIKE YOU CREATE  
GREAT CHEMISTRY.**



You belong here.

JOIN US >



**ACS**  
Chemistry for Life®

AMERICAN CHEMICAL SOCIETY

## ACS wants to feature MEMBERS in our Membership marketing!

Our goal is to showcase the diversity and expertise of the ACS community.

- Would your organization/university like to participate in a future photoshoot?
  - Do you know anyone you think ACS should highlight?
- Are there any locations you would recommend we hold a photoshoot?

If you are interested in participating in a photoshoot, or have any suggestions, please reach out to

[s\\_holland@acs.org](mailto:s_holland@acs.org) or [c\\_barnard@acs.org](mailto:c_barnard@acs.org)

American Chemical Society



# Share Your Story

American Chemical Society



# Hawaii Local Section

David Cunningham

# Hawaii Local Section

ChemLuminary Award Finalist for Best Activity or Program Stimulating Member Involvement

## Hawaii Section ACS NCW and Centennial Event

The Hawai'i local section celebrated our Centennial and NCW as a full day event at the Bishop Museum in Honolulu on Saturday October 29. The event was publicized through our social media, email, a two-part news interview, and outreach to local schools, universities, businesses, non-profits and political representatives. Over 25 volunteers, not including the Kailua Dance academy, engaged with over 200 participants.



1922-2022  
AMERICAN CHEMICAL SOCIETY  
HAWAII LOCAL SECTION  
CENTENNIAL CELEBRATION



LS Facebook



Promotion of our celebration featured a two-part interview and demonstrations on KHON2 news by Domonkos Feher (LS Chair) and Julia Cramer (Event Committee Chair) promoting the event.



KHON2 News Video



Both daytime and evening events integrated the chemistry, history, culture and the arts. The Kailua Dance Academy performed STEM Adagio; a ballet adapted to reflect the beauty of common labware with graceful dance.

### Daytime Program

### Evening Program



Our NCW/Centennial event officially started at 11:00 am with 15 activity tables and ran past 3:00pm due to popular demand.



Participants practiced the art of Tie Dye, while learning about the chemistry of fabrics and modern dyes. (photo left)  
Over a dozen organizations were actively welcomed and involved to make our Centennial event a success. The table (right) outlines the variety of activities and volunteers.  
Environmental organizations Parley Hawaii and the Center for Marine Debris Research informed our guests of our responsibility to the environment.



Mahalo to LSAC for IPG Funding and Angella Wilson for her Aloha and Leadership



Activity	Description	Leaders
ACS Microscopy and Social Touch	ACS Microscopy Touch table and social touch. Micro, social.	Wes and Jennifer
Ballet performance	STEM Adagio ballet performance adapted to feature chemistry labware.	Kailua Dance Academy
Tie Dye	The art of tie dye was demonstrated by Domonkos Feher, LS Chair, and Julia Cramer, Event Committee Chair. The activity included Preheat, Dye, and Fixation. The activity was held in the Dye or Ink room.	David Cunningham - ACS LA
Liquid Nitrogen Ice cream	Making ice cream with liquid N <sub>2</sub> .	Chemistry Club at the University of Hawaii at Manoa
Flaming Chemistry Show	Making potassium chloride in test tubes and using a propane burner as fuel to ignite colored flares.	Chemistry Club at the University of Hawaii at Manoa
Forensic fiber investigation	Fiber sampling using different types of microscopes.	Keun Hwang - Chemistry Department, University of Hawaii at Manoa
Microbiology: Staining	Experiment with different types of microbial staining dyes, including variations with different incubation times.	Keun Hwang - Chemistry Department, University of Hawaii at Manoa
Algae	Microalgae (Chlorella) and Cyanobacteria (Spirulina).	Keun Hwang - Chemistry Department, University of Hawaii at Manoa
Microbial Magic	Nylon fiber synthesis. Nitrocellulose (Sulfolignin).	Keun Hwang - Chemistry Department, University of Hawaii at Manoa
Spongy Solids: Oil and Solids	Dry ice generated CO <sub>2</sub> /nitrocellulose.	Keun Hwang - Chemistry Department, University of Hawaii at Manoa
Polymer Party	Quaternary ammonium salt. Nylon.	IPG Chemistry Club
Properties of Fibers	Fluorescent fibers. Distinguishable in hydrophobic and hydrophilic solvents.	IPG Chemistry Club
Chemistry at the Big Island	Presenting the 85 Chem programs of UH Hilo.	Chaeun Yeh - UH Hilo
Parley Hawaii	Plastics and fibers in the environment.	Kate Thomas - Parley Hawaii
Marine Debris Research	Marine Debris Information.	Karin Hooper - Center for Marine Debris Research at UH
Teppany Table	Record your feedback by word and eat at our Teppany Table.	David Cunningham ACS LA



Centennial dinner and awards program. VIP guests included ACS president Angella Wilson, State Representative Dr. Lisa Martin, and former LS Chair from as early as 1984.



Historic Documents Table. Featuring our original 1922 Charter.



Presentation on the history of our section and our educational institutions



Hawaii LS Executive Committee with ACS President Angella Wilson



American Chemical Society



# Southern California ACS Local Section (SCALACs) High School Students Research Symposium on STEM Subjects

**Veronica Jaramillo**

Councilor and Chair-Elect

CCA Member

Judge for the Symposium

**Krishna Kallury**

Alternate Councilor & Member-at-Large

National Senior Chemists Committee Member

SCC Representative of DEIR Round Table

Organizer of the Symposium

# Funding, Focus of Proposal & Targeted Audience



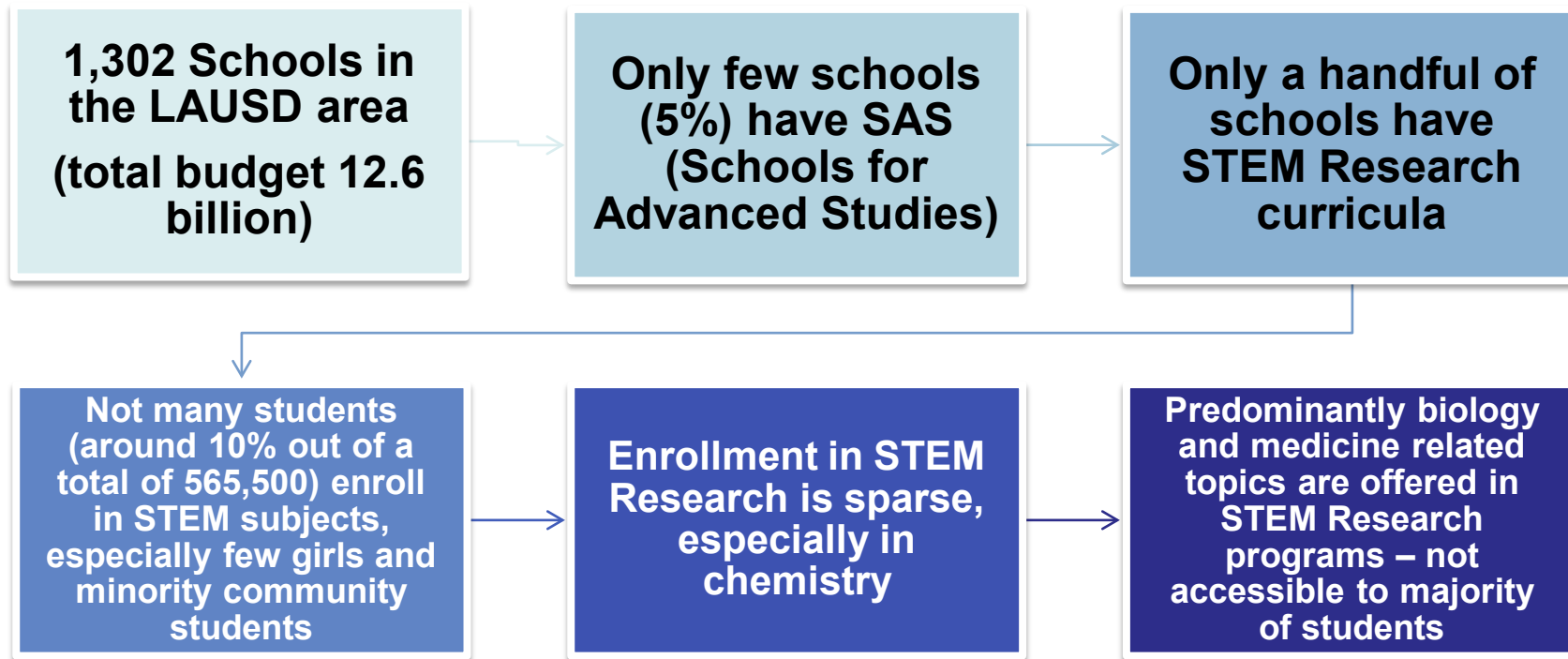
Funding	Focus	Target Audience
<b>Local Section Activities Committee/Diversity, Equity, Inclusion &amp; Respect (LSAC/DEIR) Grant</b>	<ul style="list-style-type: none"><li>• <b>Promoting STEM Education amongst Underrepresented High School Students</b></li><li>• <b>Educating HS Students on the importance of Research</b></li></ul>	<ul style="list-style-type: none"><li>• <b>Los Angeles Unified School District (LAUSD) -2<sup>nd</sup> Largest School District in the Country</b></li><li>• <b>LA County Schools</b></li></ul>

# Efforts to Promote STEM & DEIR



Science Fairs	Symposia	Seminars	Seminars	Tours
<b>EGSE (Engaging Girls in STEM Education)</b>	<b>Undergraduate Research Symposia</b>	<b>Seminars</b> <ul style="list-style-type: none"> <li>• Climate Change and ongoing remedial measures</li> <li>• combating epidemics/viral infections</li> <li>• Artificial Intelligence in classrooms</li> <li>• STEM Research</li> </ul>	<b>Educational seminars by Nobel Laureates and local University Professors for promoting STEM Education</b>	<b>Tours to Science museums and academic research labs</b>
<b>Target Audience:  Middle/High School Girls &amp; their parents</b>	<b>undergraduate students from local Universities</b>	<ul style="list-style-type: none"> <li>• Senior Chemist</li> <li>• High School &amp; Community College students</li> </ul>	<b>Open</b>	<b>Open</b>

# State of STEM Education in SCALACS area Schools



# Planning the High School Research Symposium

---

# What do we even mean by research?



Most research conducted by high school and undergraduate students is a happy medium between those extremes. It is about producing a hypothesis, analyzing previous academic work on the topic, gathering data through surveys, questions, experiments or using existing data, analyzing this data, and arriving at a conclusion.

---

# Why High School Students Should Consider Research?



**It is exciting.** Unlike classroom learning where you ask questions to which answers are known, research involves asking questions to which answers are yet to be found.

**It gives you valuable skills.**

**It can help you discover what you want to study.**

**It can set you apart.**

**It gives you a community.**

# Choosing a Sponsor for the Symposium



**Problem – Very few local students engaged in Stem Research**

**Alternative: Find a Sponsor Organization heavily involved in High School Student Research**

## Lumiere

Private organization promoting High School students' research,

Founded by Ph.D.s from Harvard University,

Mission to provide world-class research opportunities for students around the world.

Seeks to ensure that the opportunities are not hidden in Ivory towers but shared for the world's best students.



# Country to which Presenters belong



ACS  
Chemistry for Life®

## United States

- Southern California (from SCALACS area schools) 8
- Rest of U.S.A. (Lumiere's students) 7
  - New Jersey, New York, Virginia, Georgia, Maryland

India (Lumiere) 5

Pakistan (Lumiere) 1

Kazakhstan (Lumiere) 1

Egypt (Lumiere) 1

Turkey (Lumiere) 1

Bulgaria (Lumiere) 1

China (Lumiere) 1

Ireland (Lumiere) 1

Mexico (Lumiere) 1



ACS  
Chemistry for Life<sup>®</sup>

## List of Presenters & Titles

Signature

Date

---

Full Name	Presentation Time	Title of Presentation
Achint Kaur	9:00 AM-9:15 AM	How can we use phylogenetics methods in tracing back the origins of Acute Myeloid Leukemia, as well as elucidating the role of driver mutations and the specific locations of the mutations involved?
Aashima Keswani	9:15 AM-9:30 AM	Data Privacy and User Awareness of Teenagers, in India, on Instagram in relation to Ethical Impact on Women.
Ryan Santosh	9:30 AM-9:45 AM	Employing Machine Learning Techniques and Frameworks to Aid with Automotive Design
Adhiraj Gupta	9:45 AM- 10:00 AM	How do different CNN architectures compare for the task of classifying road signs and drawing bounding boxes around them?
Ayaan Waqar	10:00 AM- 10:15 AM	What are the privacy considerations in federated machine learning for healthcare wearables?
Mihaela Petrova Tzvetkova	10:15 AM- 10:30 AM	What is the impact of zinc finger proteins in developing and promoting metastasis in breast cancer?
Oğuzhan ŞİŇİK	10:30 AM- 10:45 AM	What are the key characteristics of human speech that contribute to perceived naturalness? What are the technical challenges in creating human-like sounds for virtual voice assistants, and how can these challenges be overcome?
Hasan Elazazy	10:45 AM- 11:00 AM	How can rising sea levels affect The Coastal zone of the Nile Delta in Egypt?
Udaiveer Parihar	11:00 AM- 11:15 AM	Evaluating the effectiveness of a PMSA (Prostate Membrane Specific Antigen) antigen radioisotope based screening method in screening for PDAC (Pancreatic Ductal Adenocarcinoma) in high-risk populations compared to existing screening tools



ACS  
Chemistry for Life®



Aisana Kasenova Askhatovna	11:15 AM- 11:30 AM	How are racial biases within the training datasets used to develop AI models affect the accuracy and reliability of dermatological diagnoses?
Isabella Jabbour	11:30 AM- 11:45 AM	What are the predicted consequences of strategic marketing and social influences on the number of current e-cigarette users in middle school and high school?
Kaylyn Sethakosee	11:45 AM- 12:00 PM	Did the COVID-19 pandemic have an adverse effect on pregnancy outcomes and c-section rates in the state of Massachusetts?
Raiya Minhas	1:00 PM- 1:15 PM	How do soft materials and engineered artificial biosystems improve biocompatibility for the application of total artificial heart (TAH) development? , How has improved medical technology affected the instance of heart transplants?
Yung Hau Hong Joseph	1:15 PM- 1:30 PM	How did different Covid-19 policies impact stroke admissions and the severity of stroke in Hong Kong?
Simar Rajpal	1:30 PM- 1:45 PM	Comparing protein structure prediction using AlphaFold to protein structures that were solved experimentally for key oncogenic proteins involved in cancer progression.
Anant Gupta	1:45 PM- 2:00 PM	To what extent can large language models help to predict changes in the stock market?
Kanjonavo Sabud	2:00 PM- 2:15 PM	Projected Escalation of Wildfire Severity Due to Climate Change in Maryland USA: A Machine Learning and Climate Simulation Approach.
Maya Malik	2:15 PM- 2:30 PM	How have coral reef ecosystems in Hawaii, USA evolved over time when analyzed through machine learning techniques applied to underwater images?
Lea Chen	2:30 PM- 2:45 PM	How can I design an assistive robotic companion to support the needs of elders living alone?



ACS  
Chemistry for Life®

Rianna Amin	2:45 PM- 3:00 PM	Constructing a Global Electricity Supergrid Based on Renewable Energy Sources: A Qualitative Analysis
Jose Maria Salvador	3:00 PM- 3:15 PM	Are attention-based neural networks more effective than any other neural network architecture for software vulnerability analysis?
Samantha Wu	3:15 PM- 3:30 PM	How is the quantity of exosome derived miRNAs in human milk affected by 1) multiple freeze thaws, 2) storage at different temperature conditions, and 3) isolating EV and miRNA on the same day, using the size exclusion chromatography method?
Niharika Sapre	3:30 PM- 3:45 PM	How can computational methods help increase the efficiency of small farmers' harvest and make work less arduous?
Sean Seguin	3:45 PM- 4:00 PM	How can long language models be applied to medicine in order to make diagnosis easier for both doctors and patients?
Angelina Yang	4:00 PM- 4:15 PM	Synthesis and In-Depth Evaluation of Degradable Copolymers via Cyclic Ketene Acetal Incorporation
Andrea Quinones	4:15 PM- 4:30 PM	The effects of Acetaminophen and Genistein on Sperm Production
Julia Bustos	4:30 PM- 4:45 PM	Developing an Immunotherapy for Small Cell Lung Cancer Using a Naturally Occurring Autoimmune Response
Juan Carrillo	4:45 PM- 5:00 PM	Evaluating the molecular mechanism of genesis of cancer stem cell induced by hepatitis C virus and/or environmental factors (alcohol or obesity)
Stephanie Cheung	5:00 PM- 5:15 PM	How a Hypoxic Environment Impacts CBX6 Expression and its Potential Target CA9 within Glioblastoma
Ruby Yoon	5:15 PM- 5:30 PM	Implications of Morphometric Variation in the Human Fifth Metatarsal for Restoring Functionality After Fracture
Leon Chen & Shaan Gupta	5:30 PM- 5:45 PM	Field study of carbon dioxide concentration variability in Los Angeles County over a decade
Angelina Lin	5:45 PM- 6:00 PM	Are all controls interchangeable? (in <i>Caenorhabditis elegans</i> )

# Top 6 Presentations



---

**Stephanie Cheung:** How a Hypoxic Environment Impacts CBX6 Expression and its Potential Target CA9 within Glioblastoma

---

**Ryan Santosh:** Employing Machine Learning Technologies and Frameworks to Aid with Automotive Design

---

**Adhiraj Gupta:** How do different CNN architectures compare for the task of classifying road signs and drawing bounding boxes around them?

---

**Nada Elmahmoudy, Hassan Elazazy Harraz:** How can rising sea levels affect the coastal zone of the Nile Delta in Egypt?

---

**Angelina Lin:** Are all controls interchangeable? (in *Caenorhabditis elegans*)

---

**Mihaela Petrova Tzvetkova:** What is the impact of zinc finger proteins in developing and promoting metastasis in breast cancer

---

# Judges and Student Presenters

A grid of 20 video call windows arranged in 4 rows and 5 columns. The windows show various participants, including judges and student presenters. Some windows feature logos for 'LUMSERE EDUCATION', 'ACS Local Section', 'Schrödinger', and 'SCALACS'. The participants are shown in their respective video feeds, with their names displayed at the bottom of each window.

Tyler Moulton	ACS Local Section	Krishna	Harishree Khunt	Nancy Brown
Veronica Jaramillo	Aaron Moment	Emma Kuczkowski (she/her)	Kat Bay	Takahashi, Gloria
Angelina	Boyi Zhang	Maddie Ai	José María Salvador	Julia Bustos
Oğuzhan ŞİNIK	Niharika Sapre	Vivian Nguyen	Juan Carrillo	Stephanie Cheung

# Acknowledgements



- SCALACS Administrative Office Personnel
  - Danielle Fazzi, Peggie Chan and Jenneva Guzman
- Tyler Molton of Lumiere who assembled the presenter team and coordinated the presentations on December 2, 2023
- All the Judges
  - Veronica Jaramillo, Aaron Moment, Nancy Brown, Gloria Takahashi, Anu Kallury, Kathy Bay, Boyi Zhang and Emma Kuczkowski, Glendy Ramirez, Research Coordinator, Francisco Bravo Medical Magnet School
- All student presenters



# Local Sections & University Lab Safety Teams: *Safety Event Collaboration*

**Gretchen Burke**

University of Minnesota Joint Safety Team

Minnesota Local Section - Safety Committee

# Collaboration with the University of Minnesota Joint Safety Team

Student-led initiative to **increase safety awareness** and **improve the safety culture** in the Departments of Chemistry and Chemical Engineering & Materials Sciences at the University of Minnesota

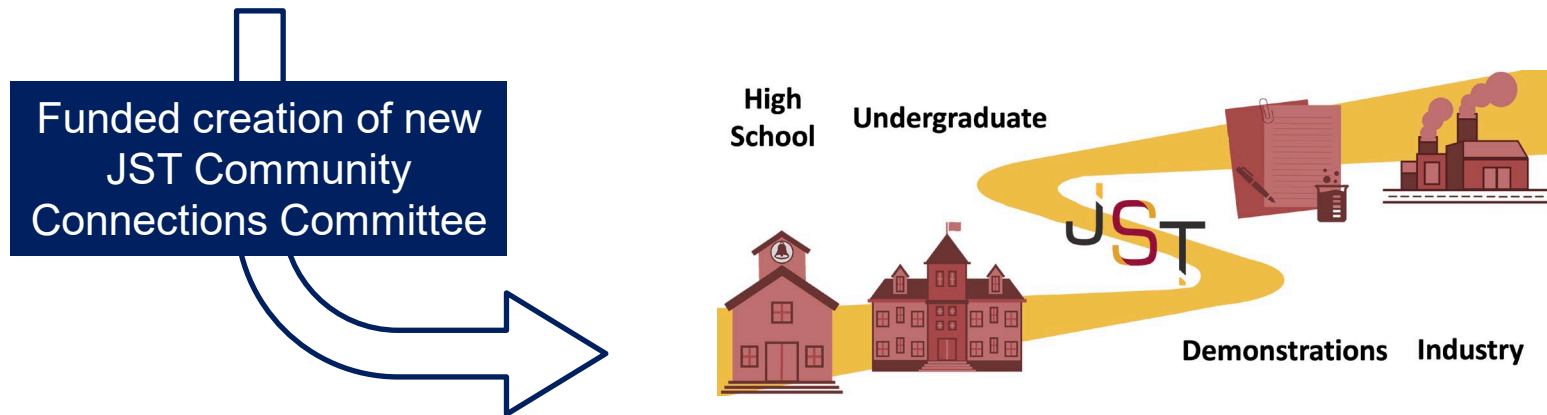
- Lab safety officers (LSOs)
- Bi-annual Lab Safety Audits
- LSO Events and Training
- Safety Newsletters & Social Media



# ACS Innovative Projects Grant

The ACS Committee on Local Section Activities (LSAC) funds new local section projects through **Innovative Projects Grants (IPGs)**.

Minnesota Local Section, through an existing connection with UMN JST, applied for and received a **\$1800 Spring 2021 IPG Grant**.





# Chemical Safety in High School Labs Workshop



# Chemical Safety in High School Labs Workshop



- Two-day workshop for local high school chemistry educators
- Free to participants
  - Free continuing education credit (teaching license requirement)
  - Optional \$65 graduate credit
- Organized and hosted by JST
  - Hosted on campus at University of Minnesota
    - Free use of conference rooms and lab spaces
  - Volunteer lecturers and lab leaders
    - UMN faculty and staff, JST leaders, and ACS local section education chair

# High School Educator Workshop



Day 1		Day 2	
8-9:15 am JST President	Introduction to Safety Culture, Safety Trainings, and Importance of Lab Safety (Lecture)	8-9:15 am UMN Organic Chemistry Laboratory Director	Make it Safe, Make it Green: Why investing in sustainable labs will produce long lasting effects on safety (Lecture)
9:15-9:30 am	Break	9:15-9:30 am	Break
9:30-11:45 Local ACS Section Education Committee Chair	Decreasing Teacher Liability through Safer Lab Procedures and Student Accountability (Lecture)	9:30- 10:30 am UMN Dept. Environmental Health and Safety Professional	Intro to Waste Handling: What type of hazardous waste do I have in my lab? (Lecture)
	PPE: Messages Passed Down to Students (Lecture)	10:30-11:30 pm UMN Dept. Environmental Health and Safety Professional	Chemical Storage and Waste Disposal (Lab)
11:45-12:45 pm	Lunch	11:30-12:30 pm	Lunch
12:45-3:15 pm UMN Chemistry Lecture Demonstration Coordinator	Introduction to Safer Demonstrations (Lecture)	12:30-1:30 pm JST CCC Member	Chemical Storage/Inventory Discussion (Lecture)
	Demonstration Lab and Safety Assessments (Lab)	1:30-3 pm UMN Dept. Environmental Health and Safety Professional	Tour of UMN Waste Handling Facility
3:15-4:00 pm JST CCC Chair	Standard Operating Procedures (Lecture)	3:00-4:00 pm JST CCC Member	Establishing Goals for Improving Safety Culture (Lecture)

# Workshop: Lecture Topics

- Introduction to Safety Culture
- Teacher Liability
- Standard Operating Procedure Basics
- Green Chemistry: Sustainability and Safety
- PPE & Messages Passed Down to Students
- Establishing Safety Goals: individual classrooms plans for the next year



# Workshop: Waste Management Lab

- University of Minnesota state-wide waste processing center tour
- Lab exercises including unknown waste diagnostics, chemical compatibility, waste storage, and labeling basics





# Workshop: Demo Safety Lab

- Completing a RAMP analysis from an overly simplistic demo SOP
- Tips and new technology for demonstration safety modifications



# Workshop Budget & Promotion

Continued funding from local section post IPG, **\$1000 annual budget:**

*Approximate workshop costs:*

- Printing ..... \$120
- Breakfast ..... \$400
- Goggles ..... \$50
- Lab consumables ..... \$50
- Presenter Gifts ..... \$175
- Shipping ..... \$10

Advertised months in advance, with a long registration window:

- Event flier widely distributed; Included in ACS Local Section newsletter
- Exhibitor at MN Science Teachers Association Conference, sponsored by Local Section Edu. Chair





# Acknowledgments



- **University of Minnesota Joint Safety Team**
  - Presidents Brady Bresnahan & Emily Robinson
- **High School Workshop Organizers**
  - Erin Maines & Jonathan Nguyen
- **High School Workshop Instructor Volunteers**
  - Chuck Handlon, Harrison Frisk, Brian Anderson, Jane Wissinger, Adam Krajcicek
- **Minnesota Local Section**
- **ACS Committee on Chemical Safety** – Marta Gmurczyk

American Chemical Society



# Inspiring Future Rocket Chemists: A Hands on Instructional Event Highlighting the Role Chemistry Plays in the Fundamentals of Rocketry

Jessica Cash

2024 Chair, Mojave Desert Local Section

# Mojave Desert Local Section



# Approach – Activities alternating with demonstrations

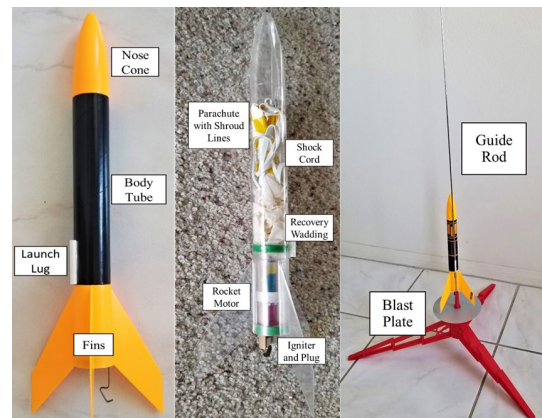


---

<b>8:00-9:00</b>	<b>Registration and Pre-Laboratory Questions</b>
<b>9:00-9:20</b>	<b>Introduction, Safety, and Schedule</b>
<b>9:20-9:45</b>	<b>First Laboratory Exercise</b> Sidewinder Rocket Team – Rocket and Launch Pad Assembly Shrike Rocket Team – Rocket Stability Tiny Tim Rocket Team – Rocket Propulsion Mighty Mouse Rocket Team – Rocket Safety
<b>9:45-10:05</b>	<b>Demonstration 1 – Liquid Nitrogen Gas Evolution</b>
<b>10:05-10:30</b>	<b>Second Laboratory Exercise</b> Sidewinder Rocket Team – Rocket Safety Shrike Rocket Team – Rocket and Launch Pad Assembly Tiny Tim Rocket Team – Rocket Stability Mighty Mouse Rocket Team – Rocket Propulsion
<b>10:30-10:50</b>	<b>Demonstration 2 – Propellant Formulation</b>
<b>10:50-11:15</b>	<b>Third Laboratory Exercise</b> Sidewinder Rocket Team – Rocket Propulsion Shrike Rocket Team – Rocket Safety Tiny Tim Rocket Team – Rocket and Launch Pad Assembly Mighty Mouse Rocket Team – Rocket Stability
<b>11:15-11:35</b>	<b>Demonstration 3 – Elephant Toothpaste</b>
<b>11:35-12:00</b>	<b>Fourth Laboratory Exercise</b> Sidewinder Rocket Team – Rocket Stability Shrike Rocket Team – Rocket Propulsion Tiny Tim Rocket Team – Rocket Safety Mighty Mouse Rocket Team – Rocket and Launch Pad Assembly
<b>12:00-12:20</b>	<b>Demonstration 4 – Team Rocket Launches</b>
<b>12:20-12:30</b>	<b>Closing Comments and Post-Laboratory Questions</b>
<b>12:30-1:00</b>	<b>Pizza Lunch and Exit Surveys</b>

---

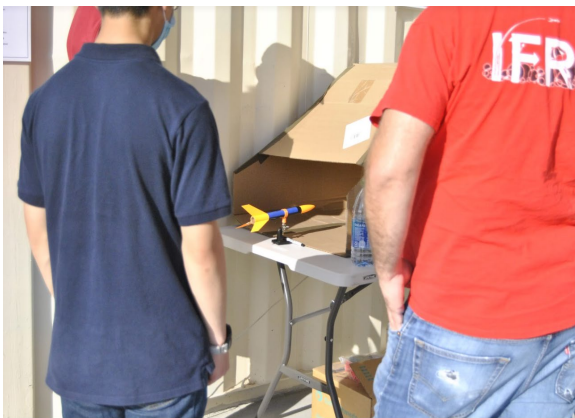
# Rocket and Launch Pad Assembly



- Introduce and define each component of the model rocket.
  - Explain the function of each individual component.
- Demonstrate how the components work together and how to assemble a functioning rocket that is ready for launch.

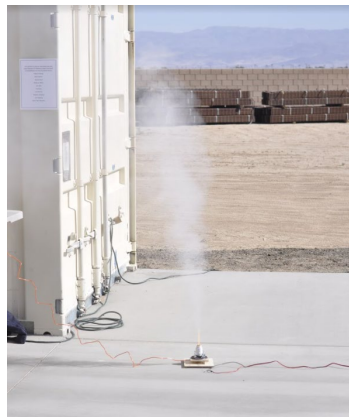


# Rocket Stability



- Introduce and define center of mass and center of pressure.
- Explain the function of center of mass and center of pressure for rocket stability.
- Demonstrate how the two concepts work together for stable flight.

# Rocket Propulsion

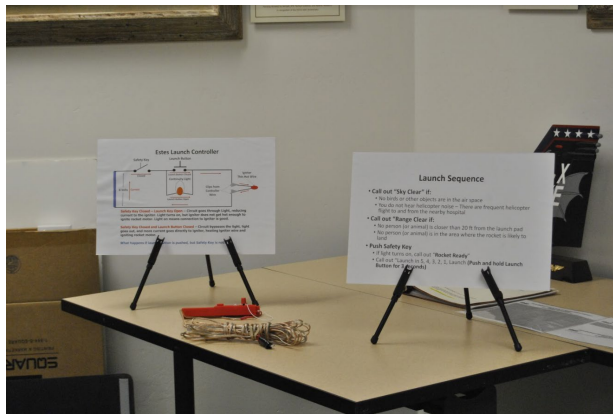


- Introduce the concept of thrust and how to measure it.
- Introduce the need for data acquisition and its technologies.
- Demonstrate how these items are used to produce data which characterizes rocket motors.

# Rocket Safety



ACS  
Chemistry for Life®



- Introduce organizations that promote rocketry safety.
- Provide a clear understanding and background behind each safety recommendation.
- Foster and encourage a foundational of safety that will continue beyond the IFRC event.



## Model Rocket Safety Code

All students must read and sign before the day of the launch.

- Materials:** I will use only lightweight, non-metal parts for the nose, body, and fins of my rocket.
- Motors:** I will use only certified, commercially-made model rocket motors, and will not tamper with their motors or use them for any purpose except those recommended by the manufacturer.
- Ignition System:** I will launch my rocket with an electrical launch system and electrical motor-ignition. My launch system will have a safety interlock in series with the launch switch, and will use a launch switch that returns to the "off" position when released.
- Malfunction:** If my rocket does not launch when I press the button of my electrical launch system, I will remove the launcher's safety interlock or disconnect its battery, and will wait 60 seconds after the last launch attempt before allowing anyone to approach the rocket.
- Launch Safety:** I will use a countdown before launch, and will ensure that everyone is paying attention and is at a safe distance of at least 15 feet away when I launch rockets with D motors or smaller, and 30 feet when I launch larger rockets. If I am uncertain about the safety or reliability of an untested rocket, I will check the stability before flight and will fly it only after warning operators and clearing them away to a safe distance. When conducting a simultaneous launch of more than two rockets, I will observe a safe distance of 1.5 times the maximum expected altitude of any launched rocket.
- Launch Site:** I will launch my rocket from a launch pad, tower, or rail that is pointed to within 30 degrees of the vertical to ensure that the rocket flies nearly straight up, and I will use a blast deflector to prevent the motor's exhaust from hitting the ground. To prevent accidental eye injury, I will place launchers so that the end of the launch rail is above eye level so that the end of the rail when it is not in use.
- Size:** My model rocket will not weigh more than 1,500 grams (33 ounces) at lift-off and will not contain more than 125 grams (4.4 ounces) of propellant or 200 grams (7.1 grams-ounces) of total impulse.
- Flight Safety:** I will not launch my rocket at targets, into clouds, or near airplanes, and will not put any flammable or explosive payload in my rocket.
- Launch Site:** I will launch my rocket outdoors, in an open area at least as large as shown in the accompanying table, and in safe weather conditions with wind speeds no greater than 20 miles per hour. I will ensure that there is no dry grass close to the launch pad, and that the launch site does not present risk of gas fire.
- Recovery System:** I will use a recovery system such as a streamer or parachute in my rocket so that it returns safely and undamaged and can be flown again, and I will use only flame-retardant or impact recovery systems available in my rocket.
- Recovery Safety:** I will not attempt to recover my rocket from power lines, tall trees, or other dangerous places.

LAUNCH SITE DIMENSIONS			
Motor Size (Total Impulse in sec)	Lightest Size (Minimum ft)	Lightest Size (Minimum ft)	Minimum Size (Minimum ft)
0-60-125	A4, D14	50	
120-150	A	60	
150-180	B	70	
180-200	C	80	
200-250	D	100	
250-300	E	120	
300-350	F	150	
350-400	G	180	
400-500	H or G	200	



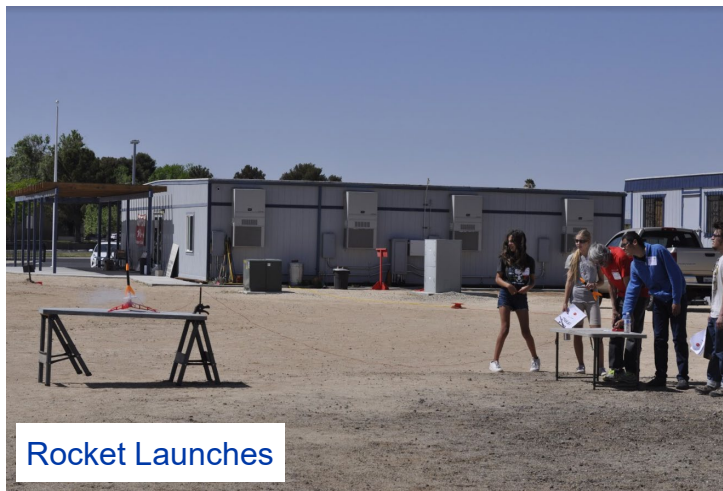
Liquid Nitrogen Explosion



Elephant Toothpaste



Propellant Formulation

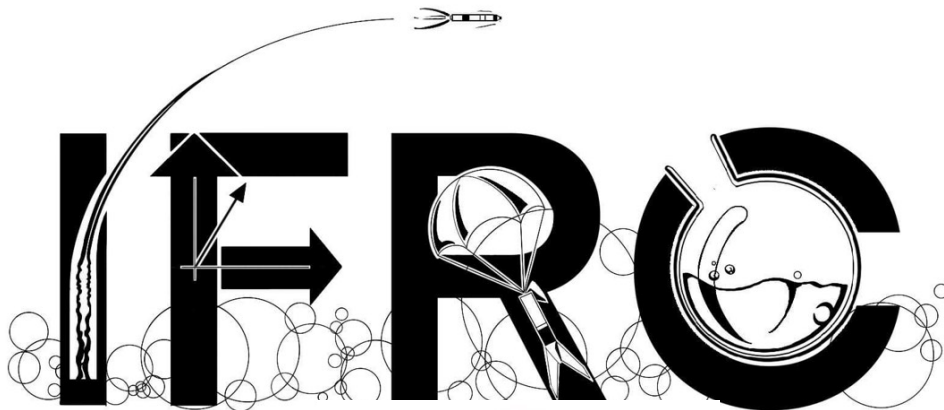


Rocket Launches

# Funded: Local Section Innovative Project Grant



Patrick W. Fedick, Aimee M. Bryan, Bob Smith, Jessica S. Austin, Brittlund K. DeKorver



CHINA LAKE  
MUSEUM  
SCIENCE • ARMAMENT • TECHNOLOGY



ACS Local Section  
Mojave Desert

# Informal Science Educational Event Assessment



## Exploration of a Method To Assess Children's Understandings of a Phenomenon after Viewing a Demonstration Show

Brittland K. DeKorver<sup>\*†</sup>, Mark Choi, and Marcy Towns

---

## Demonstration Show That Promotes and Assesses Conceptual Understanding Using the Structure of Drama

Holly Walter Kerby<sup>\*†</sup>, Brittland K. DeKorver<sup>‡</sup>, Joanne Cantor<sup>§</sup>, Marcia J. Weiland<sup>¶</sup>, and Christopher L. Babiarz<sup>‡</sup>

---



# Significant Improvements in Confidence and Free Responses



- Confidence with Content
  - The pre-lab had 51 responses of E. “I don’t know” of the 200 responses. The post-lab had only had 23 responses of E. of the 200 responses.
- IFRC open-ended responses:
  - Four future rocket chemists suggested to move the event to a colder day or inside.
    - Weather is a major factor for this event as high winds will prevent rocket launches and the successful completion of some of the hands-on laboratories and visual demonstrations.
  - One future rocket chemist suggested “let us color the rockets”.
  - One future rocket chemist suggested “more material for rocket stability”.

# Creating Successful Student Chapters Workshop

Tyler Adams<sup>1</sup>,

Stacy K. Hutchison<sup>2</sup>, Lauren Woods<sup>1</sup>, James Hanna<sup>3</sup>, Will Case<sup>4</sup>,  
Julia Brumghim<sup>5</sup>, John Kaup<sup>6</sup>

<sup>1</sup>University of North Carolina at Charlotte, Charlotte, NC;

<sup>2</sup>Wingate University, Wingate, NC;

<sup>3</sup>Winthrop University, Rock Hill, SC; <sup>4</sup>Converse University,  
Spartanburg, SC; <sup>5</sup>Clemson University, Clemson, SC; <sup>6</sup>Furman  
University, Greenville, SC





### Funding received

WC & CP sections received the IPG grant to host a joint workshop

2019



### Attempt 2

In person meeting planning began

Fall 2020



### Success!

In March, faculty and student and ACS reps finally met!

Fall 2021

Sp. 2022



### So it began

Goal #1 – Improve ACS Student Chapters in the CP Local Section  
Goal #2 – Collaborate with another local section

### Attempt 1

Started planning for a hybrid event for spring



### Attempt 3

SERMACS feedback and social event was a great success



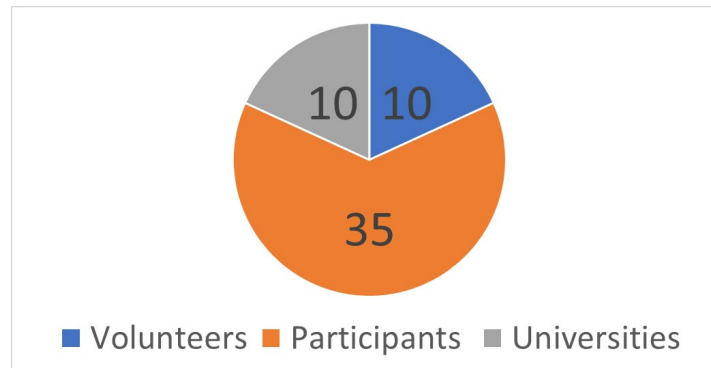
# At the Workshop



Time	Event		
9:30 am - 10:30 am	<b>Phifer Science Hall, Lower Lobby</b> Registration, refreshments, networking		
10:30 am - 11:20 am	<b>Phifer Science Hall, Dalton Auditorium</b> Opening Remarks: Will Case (Converse University)  Keynote Speaker(s): Christina McCoy, Program Manager, ACS Global Student Engagement Nicole Di Fabio, Senior Manager, ACS Student Communities <b>Leveraging for Longevity: Key ACS Resources for Creating and Maintaining a Student Chapter</b>		
11:30 am - 12:30 pm	<table border="0"> <tr> <td style="vertical-align: top;"> <b>Phifer Science Hall, Classroom 302</b> Student Workshop: <i>"Running a Chapter from the Student's Perspective"</i> Moderator: Tyler Adams (UNC Charlotte)   <b>Student-Advisor Relationships:</b> Catawba College  <b>How to Recruit/Maintain Engaged Members:</b> Appalachian State  <b>Community Engagement:</b> Lander University                 </td> <td style="vertical-align: top;"> <b>Phifer Science Hall, Classroom 109</b> Faculty Workshop: <i>"Running a Chapter from the Faculty's Perspective"</i> Moderator: Jay Hanna (Winthrop University)                       Christina McCoy/Nicole DiFabio (ACS): "How to Maintain a Chapter"                      Lauren Woods (UNC Charlotte): "Local Section Resources"                      Stacy Hutchison (Wingate University): "Navigating the Annual Report"                 </td> </tr> </table>	<b>Phifer Science Hall, Classroom 302</b> Student Workshop: <i>"Running a Chapter from the Student's Perspective"</i> Moderator: Tyler Adams (UNC Charlotte)  <b>Student-Advisor Relationships:</b> Catawba College <b>How to Recruit/Maintain Engaged Members:</b> Appalachian State <b>Community Engagement:</b> Lander University	<b>Phifer Science Hall, Classroom 109</b> Faculty Workshop: <i>"Running a Chapter from the Faculty's Perspective"</i> Moderator: Jay Hanna (Winthrop University)  Christina McCoy/Nicole DiFabio (ACS): "How to Maintain a Chapter" Lauren Woods (UNC Charlotte): "Local Section Resources" Stacy Hutchison (Wingate University): "Navigating the Annual Report"
<b>Phifer Science Hall, Classroom 302</b> Student Workshop: <i>"Running a Chapter from the Student's Perspective"</i> Moderator: Tyler Adams (UNC Charlotte)  <b>Student-Advisor Relationships:</b> Catawba College <b>How to Recruit/Maintain Engaged Members:</b> Appalachian State <b>Community Engagement:</b> Lander University	<b>Phifer Science Hall, Classroom 109</b> Faculty Workshop: <i>"Running a Chapter from the Faculty's Perspective"</i> Moderator: Jay Hanna (Winthrop University)  Christina McCoy/Nicole DiFabio (ACS): "How to Maintain a Chapter" Lauren Woods (UNC Charlotte): "Local Section Resources" Stacy Hutchison (Wingate University): "Navigating the Annual Report"		
12:30 pm - 1:20 pm	<b>Lobby</b> Lunch		
1:30 pm - 2:45 pm	<b>Dalton Auditorium</b> Student/Faculty Workshop: "What Now?" Moderator: Stacy Hutchison (Wingate University)		
2:45 pm - 3:00 pm	<b>Dalton Auditorium</b> Closing Remarks: Jay Hanna (Winthrop University) Raffle Drawing		

## In Attendance...

There were 45 faculty and students in attendance, representing 10 different universities across North and South Carolina





# Student and Faculty Breakouts



All participants learned about the American Chemical Society as an organization and benefits of being an ACS member from Christina McCoy, Program Manager and Global Student Management with ACS. Topics of the Student workshop were

- Student-Advisor Relationships,
- How to recruit/maintain engaged members, and
- Community engagement.

Active Student Chapters from Lander University and Appalachian State presented success they have had in their own student chapters at their Universities.

Representatives from the American Chemical Society, Christina McCoy and Nicole DiFabio presented on the roles of a Faculty Advisor to the Student Chapters. Faculty Topics included:

- Chapters can be started with at least 6 student ACS members, a faculty advisor with ACS membership and bylaws
- Chapters must submit a chapter report at least once every three years.
- To maintain a thriving chapter, schools can apply for funding from the ACS as well as their local sections.
- Members from the Carolina Piedmont Local Section presented information of funding opportunities and more information about completing the annual report.

Faculty and students had the afternoon to get into groups to brainstorm and plan activities for once they returned to campus.

# Follow Up

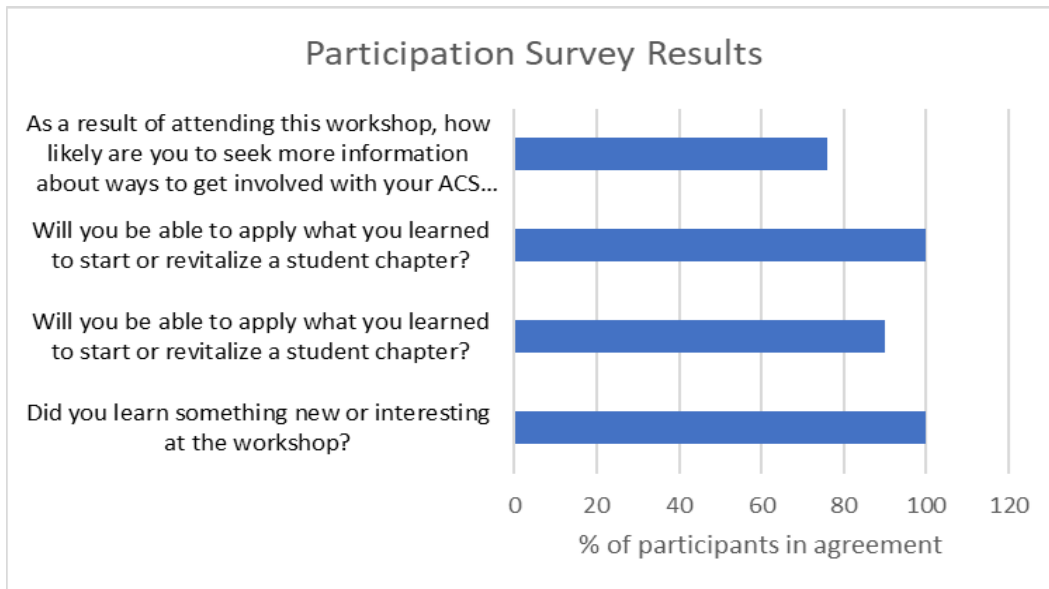


Wingate University – received a grant from CSSC to host a Demo show in the Spring 2022, new Executive Board elected, “Commendable” rating for first Annual Report completed, thriving Student Chapter.

UNCC – New student Chapter started, 4 faculty acting as co-advisors, executive board elected, applied for ACS Chapter Starter grant and Local section NCW funding.

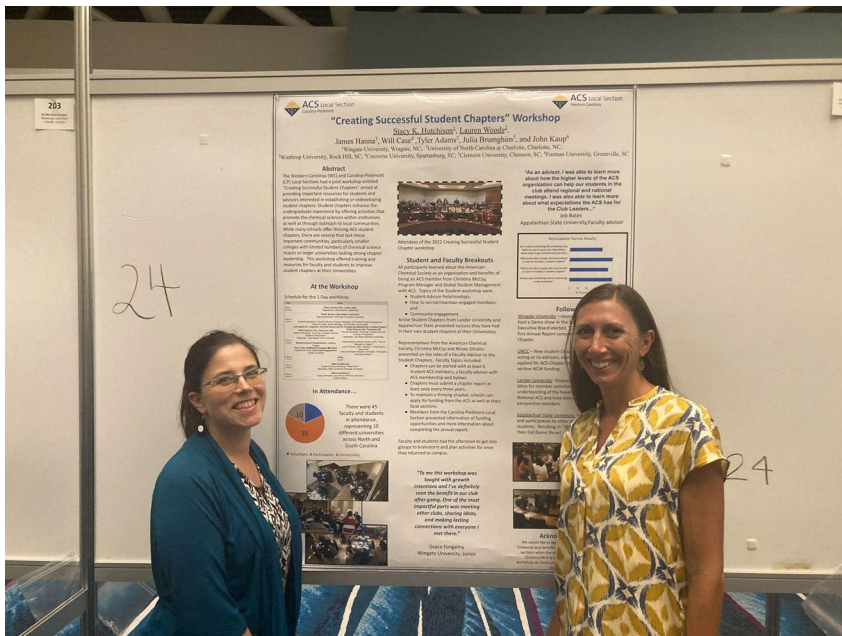
Lander University- Chapter came away with new ideas for member activities. They also have a better understanding of the benefits for students to joining National ACS and have been sharing those with perspective members.

Appalachian State University- Improved recruitment and participation to other majors and younger students. Resulting in ~30 students signed up for their Fall Demo Show!





# Presentations



Poster Presented at SERMACS 2022 by Stacy K. Hutchison and Lauren Woods.

Board Members, Faculty and Student Attendees present at SERMACS 2022.

# **The CSSC Workshop won the 25th Annual ChemLuminary Award**



**ACS**  
Chemistry for Life®

**Thank you Jay Hanna and Will Case for your  
leadership.  
Thank you WC and CP Local Sections for your  
support.  
Thank you ACS for the IPG grant.**

**And...Thank you all!!!**



American Chemical Society



# ACS Indiana Local Section: Share Your Story

Eray Schulz

# ACS Indiana Mentorship Program



- Provide 1:1 mentoring, small group mentoring, and networking opportunities
- Matches students at all levels with members of industry, academia, and/or government

2021 ChemLuminary Award



# MAC Industry Engagement & Outreach Event – Speed Networking



- Event hosted at Marian University (April 2023)
  - Industry relations committee (ACS Event Partner)
  - Mentoring, SCC, YCC participating committees
- 4 volunteers and 40 attendees
- 10-15 minutes with each mentor



# Event Outcomes



## What went well?

- Great student turnout
- Met major student demand for networking opportunities
- Increased exposure to major companies in the Indianapolis area



# Improvements

- More time with mentors
- Increase company diversity beyond Indiana's "big 3"
- Advertise incentives for attending these events



# Future Programming



- Continuing to have similar networking events
- Other committees within the local section have started these
  - Committee on Technician Affairs, Committee on Minority Affairs
- Has inspired other meetings to have networking events incorporated

American Chemical Society



Thank you!



# Designing Our Ideas Gallery



- With your tablemates discuss a new program idea(s) that you may wish to develop at your local section or in conjunction with other local sections.
- Keep your ideas high-level (for now)
- Use the easel pad at your table to jot down your program idea(s).
  - Write BIG – 1 idea per sheet
- Pick a volunteer to present your idea(s)

# Let's talk about Sunday...



- Review the ideas gallery for events or activities that you would like to organize and identify opportunities to collaborate with other local section leaders.
- Use time during tonight's reception or breakfast to continue conversations and identify colleagues for a group activity.
- Self organize on Sunday Morning to brainstorm ideas, discuss program planning & activities and opportunities to collaborate, etc.
- Report out on planned activity



# Local Section Events Gallery

## 8:30am – 9:00am



- Review the Local Section Programming Ideas along the wall
- Choose a topic that would you like to work on as a group
- Find an open table and start to outline your program
- Use your easel pads to outline your ideas.

Want to work on an idea that's not listed –  
that's OK, too.

Feel free to suggest a new program idea.

# Local Section Track Sunday Morning

## Agenda:

8:30 – 9:00 AM	Welcome and Agenda for the Day
9:00 – 9:45 AM	Program Planning: Pulling it Together
9:45 – 11:00 AM	Program Reports
11:00 – 11:30 AM	Town Hall Meeting and Wrap-Up

January 28, 2024

American Chemical Society



# Local Section Track Town Hall Meeting and Wrap Up

January 28, 2024







# eRosters



- Four Files
  - Local Section Roster
    - (Name, Addresses, Email, Employer, Years of Membership, etc.)
  - Activity Report
    - (Address Changes, New/Deceased Members, etc.)
  - Demographic Report
    - (Age, Years of Service, Education, Gender...)
  - Student Chapters in your Local Section
    - Student and Faculty Advisor Contact Info.
- NCOA (National Change of Address) Compliant
- Updated Monthly/Email Notification
- All track attendees will be granted access to your section rosters

# What's the difference between an eRoster and the Election Roster



- The eRoster contains a list of all members and includes their membership status.
- The election only roster filters out members that are ineligible to vote. This include society affiliates, members with unpaid dues or members that are in grace status.
- All active (paid) members in the local section and are eligible to vote.
- Local section society affiliates and division affiliates can not vote or hold an elected position.
- Ballots should only be sent to members of the local section or division, as they are the only ones eligible to vote.

# Do you have to be a member of ACS to be a member of a local section?



- Local section may have local section affiliates that are not members of ACS.
- Your bylaws should indicate if you may have affiliate members.
- A science museum worker is an example of an affiliate member.
- Affiliates do not appear on your eRoster.
- Section Affiliates can not vote or hold elected office.

# Are there guidelines for Executive Committee expenses



- In formulating fiscal policy, sections should evaluate their activities to be certain they are in agreement with their mission, which is the basis for their tax-exempt status.
- Generally, if the activity is appropriate, the necessary expenditures to promote that activity will also be appropriate.
- In general, the Society and its local sections are prohibited from making expenditures that benefit individuals or profit-making organizations, promote legislation, or support or oppose a candidate for public office.

# Purpose of the Annual Report



- Drives the disbursement of your section's allotment
- Allows you to nominate for ChemLuminary Awards
- Provides a historical record for your local section
- Allows LSAC to monitor the health of your local section

# Who is involved in preparation of the annual report?



- Local Section officers and Councilors listed in the Yellow Book as officers for the reporting year are authorized users for Community Connection. Access Community Connection with ACS ID
- (Reporting Year) Chair and Treasurer complete; Councilor approves.
- In addition, a maximum of 3 non-officers can be added to access your group's annual report.
- To assign a non-officer access to Community Connection, please ask your chair to send the non-officer's name and ACS ID to [forms@acs.org](mailto:forms@acs.org).

# How can we allow people to register an event and pay the registration fee online?



- eCommerce and event registration tools are available
  - (e.g., Starchapter, Eventbrite, Survey Monkey, Google Checkout)
- Set up a PayPal and Venmo account for your section.

**What does your section use for online registrations?**

# How do I encourage our board to do something more progressive?



- Direct and respectful communication.
- Volunteer to lead new initiatives.
- Cite examples of other local section successes.
- Apply for an IPG, METT, DEIR Grant.



# How do we increase engagement with our members?



- Find out what your members are interested in.
- Consider a town hall meeting or member survey.
- Plan social events/outings where members can bring families.
- Consider planning events that appeal to specific demographic audiences.
- Look at what other sections have done – imitation is sincerest form of flattery.
- Get the word out. Website or email communications may not be enough.
- Consider social media as part of your communications strategy.

# How can we form a working group across sections for the purpose of planning activities?



- Reach out to the officers of neighboring local sections via Yellowbook or local section lookup on [acs.org](https://acs.org).
- Follow-up with your table mates and others you met this weekend to plan collaborative events.
- Set up a reoccurring meeting on Zoom or another platform

[Yellowbook.acs.org](https://Yellowbook.acs.org)

# How do we set up a group on the ACS Network?



- ACS members can set up Groups on behalf of their local sections:
  - Private (e.g. Executive Committee) or Open (e.g., local section members or others)
  - Discussions, document sharing, events, photos and videos
  - Add widgets to highlight activity, content, and people

<https://communities.acs.org/docs/DOC-70277-establishingmanaging-a-group>

[ACSNetworkFeedback@acs.org](mailto:ACSNetworkFeedback@acs.org)

# What are some alternate ways to measure success?



- There are a lot of ways to measure the success of your events:
  - # of new attendees
  - # of new members/volunteers
  - excitement and engagement of participants

What do you consider success?

# Can we affiliate with other technical organizations?



- Local Sections (and Technical Divisions) can affiliate with other technical organizations (e.g., Scientific Society, Science Museums) provided that the affiliation does not contravene with the ACS Charter, Constitution and By Laws.
  - Co-hosting conferences
  - Sharing expenses
  - Promotion and sponsorships
- Affiliations may be requested for up to five years/renewable.
- Affiliations are reviewed and approved LSAC and the Committee Constitution & Bylaws.

# Sources of Information...



- Contact each other! All ACS officers, including local section officers, are included in an annual directory which has come to be known as the Yellow Book.
- By virtue of your office you have access to the contact information of all other ACS officers and the staff that support national governance committees like the Committee on Local Section Activities.
- Search ACS Yellow Book, you will be asked to verify using your last name and ACS membership number or your ACS ID.

# Technology Resource Guide

ACS Publications C&EN CAS

ACS  
Chemistry for Life®

ACS Network  
Chemistry Community Online

Home Forums Browse Help

Online Presence Best Practices  
in ACS Chemistry

Follow Actions

WELCOME SOCIAL MEDIA MARKETING GOVERNANCE INTERNAL COMMUNICATIONS Activity Content Images People More

The purpose of this page is to provide a space for collaboration and exchange of technology resources. Use this page to ask questions and share resources as you discover new tools and best practices.

ASK THE COMMUNITY

Type your question

Ask my question

JOIN THE CONVERSATION!

No results were returned.

Click Here to Suggest a Resource

GOVERNANCE SPREADSHEET

Category	Product	Cost	Use Case	Pilot/Example	ACS Bylaw & Practical Considerations
Voting	<a href="#">Survey Gizmo</a>	Free & Paid	Officer Voting Opinion Polls / Surveys		<a href="#">Protocols for Conducting Elections in Divisions and Local Sections</a>
Voting	<a href="#">Survey Monkey</a>	Free & Paid	Officer Voting Opinion Polls / Surveys		<a href="#">Protocols for Conducting Elections in Divisions and Local Sections</a>

\*Disclaimer: The information contained in this Tech Resource Guide is provided as a free service to American Chemical divisions and other governance units.


The ACS has used reasonable efforts in collecting, preparing and providing quality information and material, but does not guarantee accuracy, completeness, adequacy or currency of the information. We also make no claims, promises, warranties, or completeness, or adequacy of the information contained in or linked to this web site. The materials here are provided for informational purposes only. You are cautioned that information in the Tech area changes frequently and you should exercise your own due diligence in using any services or products.

<https://communities.acs.org/community/society/acs-governance/best-practices>


# Get Involved Stay Involved

American Chemical Society > Communities > ACS Membership > Get Involved, Stay Involved

## COMMUNITIES

ACS Membership 

**Get Involved, Stay Involved**

Welcoming All Chemists 

Join a Technical Division

Technical Division Resources for Officers

Insurance

Social Tools

Local Sections

Senior Chemists

## Get Involved, Stay Involved

ACS offers many ways to get involved at the local, regional, and national levels. There are opportunities for everyone, whether you are a student, just starting your career, or a seasoned professional.

Find tools and information geared towards your interests in the following:

- **Local Sections**
- **Technical Divisions**

**Community Outreach Volunteer Resources**

- Chemists Celebrate Earth Day (CCED)
- National Chemistry Week (NCW)

- **Quick Volunteer Opportunities**
- Looking to get involved with ACS but don't have a lot of free time? Browse these short-term tasks.
- **ACS Silver Circle**

For members with valuable experience who wish to share their

### What's Important Now

- Digital Resource Guide
- Volunteer Conduct Policy
- Legal Resource Guide
- Best Practices for Election Procedures
- Members Engaging Through Technology (METT) Grant

**ACS PROGRAM A BOX**

*We provide the speakers.  
You gather the audience.*

<https://www.acs.org/getinvolved>



# Innovative Program Grants

American Chemical Society > Funding > Grants > ACS Community Recognition > Local Section Innovative Project Grants

## FUNDING

- Grants
- PRF
- Teva Pharmaceuticals Scholars Grants
- Frasch Foundation
- Sigal Postdoc Fellowship
- ACS Community Recognition**
- Corporation Associates Seed Grant
- Corporation Associates Local Section Grants
- Green Chemistry
- ACS-Hach High School Chemistry Grant

Awards

## Local Section Innovative Project Grant Program

[Goals](#) | [Application Procedures](#) | [FAQs](#) | [Timing & Dates](#)

### Goals of the IPG Program

The ACS Committee on Local Section Activities (LSAC) funds new local section projects through Local Section Innovative Projects Grants (IPGs). This program encourages local sections to conceive of and implement innovative projects to strengthen the functioning of the local section.

Proposed innovative projects must 1) be new to the applying local section, 2) stimulate local section member involvement, and 3) be pilot projects for a continuing section activity or else take advantage of a unique upcoming opportunity for the local section.

Projects that support interaction with other ACS local sections, ACS divisions, ACS committees, other professional associations, or community

### IPG Forms

- [Application Form](#)
- [Final Report Form](#)
  - Applications submitted via Good Done Great must have their final report submitted by the original applicant
  - All other applications should submit their final reports through the link above

**Next deadline:**  
January 14, 2019 at 11:59PM ET

[www.acs.org/content/acs/en/funding-and-wards/grants/acscommunity/linnovativegrant.html](http://www.acs.org/content/acs/en/funding-and-wards/grants/acscommunity/linnovativegrant.html)

# Sources of Information...



- Headquarters listing in your folder. If you don't know who to call, contact local section support!
- [LSAC@acs.org](mailto:LSAC@acs.org) – Committee on Local Section Activities
- [OLSA@acs.org](mailto:OLSA@acs.org) – Office of Local Section Activities
- [FORMS@acs.org](mailto:FORMS@acs.org) – Annual Reports
- [Rosters@acs.org](mailto:Rosters@acs.org) – eRosters
- [m\\_Obrien@acs.org](mailto:m_Obrien@acs.org) – Mark O'Brien, LSAC staff liaison

# Support for Local Sections Staff



Tanya Fogg  
Operations & Support  
t\_fogg@acs.org



Sherri Dotson  
Technology and Tools  
s\_Dotson@acs.org



Ben Hall  
Grants & Awards  
b\_hall@acs.org



Angela Morris  
Communications  
a\_morris@acs.org



Mark O'Brien  
LSAC Staff Liaison  
m\_Obrien@acs.org

---

# ARE THERE ANY OTHER QUESTIONS



# Town Hall Meeting Wrap Up

**What can we do to make  
your local section  
successful?**

January 26, 2020



Jason Ritchie, Chair,  
Committee on  
Local Section  
Activities (LSAC)