

Chittenden Hall
466 W. Circle Dr. Rm 120
East Lansing, MI 48824

FY 2021-2022 Financials

July 1, 2021 – June 30, 2022

Fiscal Year End

COGS 2021-2022 Executive Board

Title	Name
President	**Sara Hugentobler**
	hugentob@msu.edu
VP Internal	**Chastity Stokes**
Affairs	Stokesc8@msu.edu
VP External	**Cullen Haselby**
Affairs	haselbyc@msu.edu
Treasurer	**Kayleigh Ward**
	twardkayl@msu.edu
Recording	**Melinda Meiring**
Secretary	meiringm@msu.edu
Parliamentarian	**Hunter McFall-Boegemann**
	mcfallbo@msu.edu
Director of	**(vacant SS22)**
Equity and Anti-Discrimination	
Law School	**Rebecca Sutton**
Liaison	suttonr2@msu.edu
Medical Schools	**Patrick Munar Ancheta**
Liaison	anchetap@msu.edu
Director of events	**Carly Claucherty**
	clauch14@msu.edu
Faculty Advisor	**Dr. Laura McCabe** mccabel@psl.msu.edu
Office Manager	**Deanne Arking** arkingde@msu.edu
Council of Graduate Students	
Michigan State University	
466 W. Circle Dr. Room 120	
East Lansing, MI 48824	
Phone: 517-353-9189	
E-mail: office@cogs.msu.edu	

2021-22 COGS EBOARD



President: Sara Hugentobler



Vice President of Internal Affairs: Chastity Stokes



Director of Event Planning: Carly Claucherty



Director of Equity and Anti-Discrimination: Renée Wilmot



Treasurer: Kayleigh Ward



Advisor: Laura McCabe



Parliamentarian/Fall: Kyle Chong



Law Liaison: Becca Sutton



Medical Schools Liaison: Patrick Munar Ancheta



Recording Secretary: Melinda Meiring



Parliamentarian/Spring: Hunter McFall-Boegeman



Vice President of External Affairs: Cullen Haselby









2021-22 COGS EBOARD







Council of Graduate Students
Profit & Loss Budget vs. Actual
July 2021 through June 2022

	Jul '21 - Jun 22	Budget
Income		
4-2000 · Investment Income	9,439.99	5,000.00
4-2100 · Student Fees	258,918.41	250,000.00
4-2300 · Conference Award Income	0.00	0.00
4-2500 · GAC Income	0.00	1,729.00
Total Income	268,358.40	256,729.00
Gross Profit	268,358.40	256,729.00
Expense		
PD AWARD	0.00	0.00
6-1000 · Meeting Expense		
6-1200 · Full Council Meetings	1,256.54	2,000.00
6-1300 · E-Board Meetings	578.14	800.00
6-1400 · Staff Meetings	199.39	250.00
Total 6-1000 · Meeting Expense	2,034.07	3,050.00
6-2000 · Services Expense		
6-2100 · Legal Services	67,981.86	65,000.00
6-2200 · Event Funding Request	12,362.65	11,000.00
6-2300 · Conference Award Fund	18,876.44	24,000.00
6-2305 · Childcare Endowment	0.00	4,000.00
6-2680 · GAC	519.45	3,000.00
6-2800 · Social Events	18,393.02	30,000.00
6-2810 · Collaboration	6,100.00	8,000.00
6-2820 · Professional Development	0.00	50.00
6-2830 · Advertising - Social Events	261.85	300.00
Total 6-2000 · Services Expense	124,495.27	145,350.00
6-2440 · COGS Merchandise	5,855.67	6,000.00
6-2600 · Special Projects		
6-2620 · Dreamers Program	0.00	2,500.00
6-2600 · Special Projects - Other	5,056.47	20,000.00
Total 6-2600 · Special Projects	5,056.47	22,500.00
6-3000 · Programs		
6-3110 · GSO Support Funding	0.00	200.00
6-3200 · COGS EBoard Retreat	0.00	1,000.00
6-3500 · EBoard Parking Reimbursement		
6-3505 · Eboard Parking Passes	3,181.00	3,000.00
6-3500 · EBoard Parking Reimbursement - Other	0.00	50.00
Total 6-3500 · EBoard Parking Reimbursement	3,181.00	3,050.00
6-3520 · Committee Service Parking	0.00	50.00
6-3700 · MSU Student FoodBank	8,000.00	8,000.00
6-3990 · Service Recognition Gifts	463.23	500.00
Total 6-3000 · Programs	11,644.23	12,800.00
6-4000 · Copy Expense		
6-4300 · Copier Maintenance	1,733.00	1,600.00
Total 6-4000 · Copy Expense	1,733.00	1,600.00

Council of Graduate Students
Profit & Loss Budget vs. Actual
July 2021 through June 2022

	Jul '21 - Jun 22	Budget
6-5000 · Payroll		
6-5100 · COGS Business Manager Salary	56,946.66	54,000.00
6-5200 · Student Payroll	4,728.15	8,079.00
Total 6-5000 · Payroll	61,674.81	62,079.00
6-6000 · Office Expense		
6-6100 · Telephone	402.90	450.00
6-6200 · Postage	35.62	50.00
6-6300 · Office Supplies	1,250.42	1,500.00
6-6800 · Account Fees	330.60	750.00
6-6900 · Technology/Maintenance	354.06	500.00
Total 6-6000 · Office Expense	2,373.60	3,250.00
6-6700 · Miscellanous Expense	0.00	100.00
Total Expense	214,867.12	256,729.00
Net Income	**53,491.28**	**0.00**

JEFFRIES and ASSOCIATES PLLC - STUDENT LEGAL SERVICES
HOURLY ALLOCATION 2021 – 2022 ACADEMIC YEAR

Student Representation

Semester	Case Type	ASMSU	COGS
Fall 2021	Criminal	547.50 Hours	42.25 Hours
	Civil	719.50 Hours	526.25 Hours
	Civil Infraction	115.50 Hours	6.50 Hours
	Total	**1,382.50 Hours**	**575.00 Hours**
Spring 2022	Criminal	557.00 Hours	14.50 Hours
	Civil	1,182.25 Hours	331.25 Hours
	Civil Infraction	43.00 Hours	11.00 Hours
	Total	**1,782.25 Hours**	**356.75 Hours**
Summer 2022	Criminal	325.25 Hours	31.75 Hours
	Civil	399.50 Hours	164.75 Hours
	Civil Infraction	8.75 Hours	1.50 Hours
	Total	**733.50 Hours**	**198.00 Hours**
	Annual Total	**3,898.25 Hours**	**1,129.75 Hours**
	Allocation Percentage	**77.53%**	**22.47%**

Organization Representation

Semester	ASMSU	COGS
Fall 2021	219.75 Hours	25.00 Hours
Spring 2022	105.00 Hours	10.00 Hours
Summer 2022	373.25 Hours	22.75 Hours
Annual Total	**698.00 Hours**	**57.75 Hours**
Allocation Percentage	**92.36%**	**7.64%**

Overall Annual Hourly Allocation

	ASMSU	COGS
Student Representation	3,898.25 Hours	1,129.75 Hours
Organization Representation	698.00 Hours	57.75 Hours
Annual Total	**4,596.25 Hours**	**1,187.50 Hours**
Allocation Percentage	**79.47%**	**20.53%**

Date: 8/31/2021

To: Deanne Arking, COGS Business Manager

From: Ethan Cheers, ASMSU Director of Student Rights Advocates and Legal Services

CC: Georgia Frost, ASMSU President
Anna Lehr, ASMSU Assistant Director of Student Rights Advocates and Legal Services
Alan Saleh, ASMSU VPFO
Nicole Gonzales, ASMSU Business Office Manager
Shanawar Lone, COGS President

RE: Student Rights Advocate Annual Report to COGS

As part of the agreement made in 2020 between COGS and ASMSU, it is the role of the Director of the Student Rights Advocates to craft an annual report to submit to COGS. This report will detail the amount of graduate students that the SRA office has worked with in the past academic year along with how many total hours were spent on these corresponding cases.

In the past academic year the SRA office has worked with 9 graduate students totaling 120 hours. Graduate students' cases are far more complex and time consuming than that of undergraduates. Most of these graduate students came from the medical school and various other graduate programs, however there were no law students. This agreement has allowed for graduate students to continue to receive our advocacy and due process while also maintaining COGS involvement in the process. We are grateful for both ASMSU and COGS determination in providing assistance to students in need of help throughout the University Judicial System.

Ethan Cheers
Director of Student Rights Advocates and Legal Services

COGS 2021-2022 Advocacy, Award & Event Data

ORIENTATION

COGS Eboard Members and Representatives spoke and answered questions about COGS in person and virtually at department over a dozen orientation events and resource fairs this fall. COGS also participated in the 2nd annual Virtual Grad Resource Fair on August 28, 2021.

REPRESENTATION

During 21-22, 57 graduate student departments and 4 student organizations appointed representatives on COGS Full Council. These graduate student representatives participated in 8 monthly full council meetings, passed 49 pieces of legislation and served on committees across campus to ensure the graduate student perspective is considered at every level.

COGS Representation Committee approved two new seats to Student Organizations this year: MSU CVM BIPOC Club and Rueda Latina GSO.

UNIVERSITY CONNECTIONS

COGS leadership has worked to recruit/nominate/place graduate and professional students on hearing boards, standing and ad-hoc committees across the University. Graduate & Professional students served to represent on Hearing boards, including AUSB, USAB, SFSB and UPGJ and UJG, and provided the graduate/professional student voice on over 25 committees across the University that affect a full range of the student experience, on such issues as research, curriculum, campus issues, safety, covid-19, mental health, insurance, curriculum, transportation, community relations, Diversity Equity and Inclusion, key administration hires, and more.

These include:

- In September, COGS leadership (Pres. Hugentobler) participated in VP/Chief Human Resources Officer Search Committee
- Renee Wilmot, COGS DOEA, and Luis Salas (graduate student at large) served on the University-wide MLK Planning Committee.
- COGS took part in an effort by the University Ombudsman to constitute an “Informal Resolutions Panel” as part of the Relationship Violence and Sexual

Misconduct Strategic Plan. This panel will explore the feasibility of creating informal resolution options for relationship violence and sexual misconduct (RVSM) incidents. It's charge is "to conduct an exploratory study of the challenges, issues and benefits in creating informal resolution channels for relationship violence and sexual misconduct (RVSM) concerns by mapping current options for informal resolution, as well as identifying gaps and best practices; assessing the feasibility for informal resolution considering types of cases and university structures; and examining restorative and transformative justice models."

- President Hugentobler served on a search committee on the newly created VP and Chief Human Resources Officer position, headed by Dr. Melissa Woo, Executive Vice President for Administration & Chief Information Officer
- These representatives served on the FS21 evaluation committee for the COGS Disciplinary Leadership Award:
    - Hunter McFall-Boegeman
    - Cullen Haselby
    - Lauren Pageau
- Secretary Melinda Meiring served on MSU PD task force to test safeMSU - providing feedback on a proposed safety app being launched by MSU dept of public safety. See: https://police.msu.edu/safemsu/
- Treasurer Kayleigh Ward served on the President's Survey Committee, working on research and survey reforms for campus.
- Treasurer Kayleigh Ward served on the University Committee on Honors Programs (UCHP)
- Graduate student representatives served on the new Informal Resolutions Panel for the RVSM Strategic Planning Committee. It's charge is "to conduct an exploratory study of the challenges, issues and benefits in creating informal resolution channels for relationship violence and sexual misconduct (RVSM) concerns by mapping current options for informal resolution, as well as identifying gaps and best practices; assessing the feasibility for informal resolution considering types of cases and university structures; and examining restorative and transformative justice models."
- COGS appointed a graduate student to serve on the Multicultural Center Planning Team.
- COGS leadership participated in feedback sessions related to the RVSM Strategic Plan
- COGS appointed a representative to serve on the Police and Public Safety Advisory Committee
- COGS leadership served on the Assistant VP for Student Life and Engagement - Diversity, Equity, Inclusion and Belonging Search Committee

- COGS nominated a graduate student to serve on the The President's Advisory Committee for Disability Issues (PACDI)
- COGS leadership & representative served on the Graduate School Dean Search
- COGS appointed a graduate student to serve on the CISO Risk and Advisory Committee for the purpose of revising the MSU Acceptable Use Policy,
- COGS appointed graduate student representation to serve on the Health and Wellness Planning Committee - for the new university health & wellness center that is being designed.
- COGS appointed graduate student representation to participate in the new MSU Union Director search.
- COGS appointed MSU grad/professional student volunteers to serve on the interview panel for MSU PD officers.
- COGS appointed a representative to serve on the CISO Risk and Advisory Committee is revising the MSU Acceptable Use Policy
- COGS representatives worked to serve on the Health and Wellness Building Planning Committee

ADVOCACY

In 2021-2022, COGS Full Council passed 49 pieces of legislation, which can be viewed on the COGS website: Legislation - Council of Graduate Students

In 2021-2022, COGS leadership has made an impact in the lives of graduate and professional students, including:

- Responding to increased need due to the continuing pandemic, COGS maintained their increased annual donation of **$8000 to MSU Student Food Bank** to assist operations which serve all MSU students, including Graduate & Professional students.
- In resolution 22-SS-24, COGS voted to re-establish the COGS technology award, assisting graduate/professional students to cover up to $100 of expenses related to remote working technology (ex. software, webcams, headphones, etc) COGS was able to provide funding to 88 graduate & professional students.
- In November, COGS voted to provide $1000 to the Women's initiative in Leadership Development conference, to support leadership development opportunities to women-identifying graduate & professional students.

- COGS Collaborated with the Graduate School to subsidize registration costs for the annual *Write Winning Grants* workshop for graduate students to attend
- In December, COGS voted in support of advocating for MSU to hire a full time employee dedicated to undocomunented student affairs.
- In February, COGS approved funding of $1800 to support HIVES Speaker Series, a multi-disciplinary workshop series highlighting diversity and inclusion, with digital workshops, readings, and talks on disability, queerness, antiracist pedagogy, poetics, and embodiment. https://behives.org/2022/02/15/hives-spring-2022-events/
- In March, COGS voted to cover the costs for graduate & professional students to attend a tax preparation webinar & workshop series: *How to Complete Your Graduate Student Tax Return and Understand It Too* Initial 40 student limit was sold out immediately and COGS approved to fund all students on the waiting list as well. COGS is pleased to provide opportunities tailored just for Graduate & Professional Students.
- In 21-22, COGS Treasurer, in consultation with the COGS Director of Equity and Anti Discrimination, the Finance Committe, and the Graduate School, completed work on all logistics to launch the new COGS DEI Leadership Award to complement the existing COGS Disciplinary Leadership Award. Additionally, COGS confirmed their long-term commitment to this program by growing the endowment seed funds by $50,000, passed in the 21-22 budget.

CONFERENCE AWARDS

- Total dollars allocated FY21-22: **$24,000.00**
- Conference Award winners are provided **$300 each**.
- For 2021-22, **$14,100** in conference awards were awarded to 47 students who traveled to 20 states and 6 countries to present their research.
- Due to decreased conference travel due to the continued pandemic The Council voted to reallocate leftover funds to other areas as FY21-22 progressed, primarily to reopening the COVID-related **remote work technology award** and to other affected entities such as the **MSU Student Food Bank** and additional **GSO events**.
- COGS Finance Committee approved & awarded **over $8,000** in remote work technology awards to 89 graduate & professional students. Awards were up to $100 each to help cover costs of equipment related to working remotely during the pandemic.

PROFESSIONAL DEVELOPMENT AWARDS

- Total dollars allocated (By Graduate School) FY21-22: $18,000
- Awards of up to $500 each were awarded to 39 students who attended conferences ins
- Professional Development Awards were distributed to **39 students** for 2021-22 - with a total of $18,266.00 awarded. Funds are provided exclusively by The Graduate School.

GSO SINGLE-HOST EVENT FUNDING

- Total dollars allocated FY21/22: **$11,000 *Increased to $13,000**
- 15 **GSOs** were awarded over $13,000.00 to 15 different student organizations. COGS is excited to support diverse and exciting programming that is open to graduate & professional students across the University.

CHILDCARE ENDOWMENT

- COGS reaffirmed support in the 21-22 budget for $4000 to be provided over and above dollars earmarked from the endowment funds should more students apply for this award than funding is available. The COGS Childcare funding comes from investment interest dollars generated from a fund started by COGS over a decade ago. Graduate and Professional students that are not able to complete the MSU Childcare Grant application for lack of SS documentation or other non-financial based reasons, can opt in to be considered for this award. The Office of Financial Aid manages this process and both COGS and The Graduate School collaborate to provide additional funds when the need arises.

DISCIPLINARY LEADERSHIP AWARD

- 5 students are awarded **$1,000.00 (ea.)** for this award which is funded by COGS and managed by The Graduate School. Winners announced SS22 are listed here: https://grad.msu.edu/2021-22-cogs-leadership-endowment-fellowship-recipients

- Three COGS representatives (not Eboard) were chosen to serve on the application review/selection committee.

NEW: COGS DEI AWARD

- At the end of 20-21, outgoing President Meagan Abel, outgoing treasurer Alyssa Logan, continuing DoEA Renee Wilmot, and 21-22 Treasurer Kayleigh Ward worked to build up award fund and collaborate with The Graduate School to integrate the newly established DEI award (res. 21-SS-55) with this program. Work on this award, in collaboration with The Graduate School which will manage the process, continued all during 21-22 and COGS is excited to announce its official launch in April of 2022. The applications for the inaugural year of this award will be due in November of 2022. Here is a link to the webpage completed in May of 2022: https://grad.msu.edu/fellowships/cogs-dei-award

2021-2022 COGS SOCIAL EVENTS

COGS social events are often coordinated or proposed by the Director of Event Planning & COGS President. Eboard is expected to assist and attend if able.
With the continuing pandemic, COGS leadership worked hard to incorporate many types of in-person, virtual, and hybrid events to engage graduate and professional students and provide meaningful opportunities for connection and fun.

Fall Welcome Celebration - August 28, 2021:

- Over 700 attendees
- DJ & Music from Impact Radio
- LIVE Podcast - Sci-Files, SPARTY and Food from Kellogg Catering
- VIP remarks from the Provost and Dean of the Graduate School and AVP of Student Affairs
- Over 60 prizes from community businesses were donated and given to attendees.
- Event included, snacks from Kellogg Catering, Games, prizes and giveaways, and activities & resource tabling from: MSU Library-Makerspace, Broad Art Museum, Gender & Sexuality Campus Center, Women*s Student Services, The Bug House, NSCL & FRIB,

Abrams Planetarium, Sci-Files, OISS, Student-Parent Resource Center, Rec Sports & Fitness, Grad Student Life & Wellness, The Graduate School, & MSU Student Organic Farm

Coffee & Connection - Fall & Spring Semester

- Held bi-weekly at various locations on and off campus
- Designed to encourage students to explore campus beyond their department buildings and to engage with other students across disciplines
- Provided treats and beverages. Had a consistent cohort of students throughout. Plans to continue this popular program in 22-23
- Photos for Coffee & Connection

COGS Virtual Coffee & Connection

- Held once in Fall and Spring to be inclusive of students who are non-traditional, off campus or otherwise unable to meet in-person
- Attendees received $10 Starbucks giftcards after the event as a thank you for attending. Our on campus partner, Starbucks-RHS, helped us coordinate this effort.

COGS Tailgate - Oct 2, 2022:

- Students enjoyed music, food, games and camaraderie in front of Chittenden Hall before the WKU game
- Tailgate Photos

COGS Night Under the Stars - Abrams Planetarium

- Students enjoyed free show courtesy of COGS at Abrams Planetarium. Two dates were available for sign-up.

COGS Halloween Pumpkin Painting Event

- Students painted pumpkins together while enjoying treats
- Prizes awarded for costumes and various categories for the pumpkins!
- Pumpkin painting event Photos

COGS Trivia Nights at Harrison Roadhouse Pub

- Students enjoyed substantial appetizer buffet and trivia hosted by Michigan Trivia Productions
- Trivia Nights held in both Fall and Spring semesters - Photos

Cookies & Careers - Workshop in collaboration with Graduate Career Services:

- Students enjoyed decorating MSU Bakery sugar cookies while engaged in discussion around post-graduate careers, facilitated by MSU Graduate School Office of Graduate Student Career Development

COGS Social Media Study Break - Fall Finals week 2021

- COGS ran prompts on social media platforms (Facebook, Twitter, Instagram). One commenter was chosen daily from each platform to win a $25 E-Gift Card. Additionally it provided a forum for fun discussion among MSU graduate/professional students.

COGS Spring Yoga Series

- COGS Partnered with Graduate Student Life & Wellness and Rec Sports to provide guided virtual Yoga Sessions weekly on Thursdays, January through April, 2022.

COGS Tax Preparation Webinar for Graduate & Professional Students- Spring 2022

- COGS Partnered with Dr. Emily Roberts to present this highly popular workshop that breaks down how to calculate your taxable income from your salary, stipend, fellowship, grant, and/or scholarships; minimize your tax liability using education tax benefits; and report your income, qualified education expenses, and estimated tax paid on your tax return. COGS funded 155 students for this opportunity which included pre-recorded videos, worksheets, and live Q&A calls, available throughout tax season.

COGS Winter Hike

- COGS met up with students at the Woldumar Nature Center for a fun walk through the trails. Students brought family, friends and four-legged companions! Hike Photos

COGS Night Out @ MSU Women's Basketball

- COGS came out to support MSU Women's Basketball for U-M Game and OSU Game and promoted another opportunity for students to connect and engage. COGS had tabling outside the designated graduate/professional student seating.

Ice Skating at Munn with COGS

- COGS reserved Munn for 2 hours of skating for graduate & professional students, their friends and families. Costs were covered for skating and equipment. Over 80 students/their guests took advantage of this fun opportunity! Skating Photos

COGS Graduate-Professional Student Appreciation Week (GPSAW) 2022

- COOKIES with The President: COGS participated in programming to celebrate graduate & professional students with receptions from MSU Administration held around campus throughout the first week of April
- COGS gave away 100 MSU Dairy Store Coupons to graduate students across campus
- COGS gave away free tickets to Lansing Lugnuts game scheduled for May 7, 2022
- COGS giveaway $25 gift cards to gpsaw social media study break - providing another fun online forum for graduate students

COGS Spring Hike

- COGS met up with students at the Fenner Nature Center for a fun walk through the trails. Students brought family, friends and four-legged companions and received fun giveaways!

COGS - Tours of NSCL/FRIB presentation

- COGS arranged for two tours for graduate & professional students to learn about the NSCL & FRIB. Both tours were full to capacity of curious students!

COGS Game Night

- COGS brought the Pizza and snacks and guests brought out board games for this fun night of camaraderie and friendly competition! Held in the student lounge in Chittenden Hall, this was one of the highlights of spring semester!

COGS High Caliber Night Out:

- The culmination of GPSAW week - included 3 hours of fun: 2 VIP rooms, appetizers & snacks, unlimited axe throwing, throw-bowling, pocket

soccer, Nerf battle, arcade credits and more! Students paid $10 for their ticket and COGS subsidized the rest. Students had a great time meeting new people, and experiencing a fun new venue! Photos

COGS SERVICES:

WHARTON CENTER SHOW TICKETS

- Graduate & Professional students were able to purchase discounted tickets through COGS for the following 21-22 Wharton Center shows: *Ballet Hispanico, Southern Journey, Hadestown, So Percussion, Evening with Branford Marsalis, Mean Girls*

LEGAL SERVICES TO GRAD STUDENTS

- COGS continues to fund free legal services through Student Legal Services for Graduate & Professional Students.. Here is the most recent annual report for Student Legal Services
- COGS also supports the Student Rights Advocate system, providing funds to pay for a Student Rights Advocate (SRA) to assist Graduate & Professional students engaged in the judicial process for violations of University regulations. Here is a link to the **SRA Report** received in September 2021 for FY20-21.

SHORT-TERM LOANS

- COGS funds a $500 (interest free for 60 days) loan program that the Office of Financial Aid administers. Applications for the $500 loan are available in 252 Student Services, and take 2-3 business days to process.
- There is **$8000** in a revolving account. COGS President is continuing her work from 2018-19 on an initiative with The Graduate School Development Officer to avail additional funds to be able to serve more students in need.
- COGS also sponsors a $300 (interest free for 8 weeks) loan program that the ASMSU Office administers. (Loans are only available during the first 6 weeks of classes.)

2022 COGS GRADUATE ACADEMIC CONFERENCE (GAC) - February 19, 2022

- COGS signature event was back in-person at the MSU Union for the annual conference this year with over 70 student presentations
- COGS is proud of the *GAC Committee*, headed by Melinda Meiring, COGS Recording Secretary, for their creativity and hundreds of hours of work during the year to make this event a success.
- COGS awarded $1800 in prize money for winning presenters at this annual conference.
- COGS sponsored the winner of the 3-Minute Thesis to compete at the Midwest Assoc of Graduate Schools regional competition in April. COGS is proud of Pragya Saxena, a doctoral student in the Pharmacology & Toxicology dept., who finished as one of the top 8 finalists of that competition.



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- Download the **Program Booklet**
- Full Recap on following pages.

COGS Holds Graduate Academic Conference on February 19, 2022

East Lansing, MI -- On Saturday, February 19, 2022, The Council of Graduate Students (COGS) held their 14th annual Graduate Academic Conference (GAC). After its first ever virtual conference held in 2021, the GAC was back in person at the MSU Union. Highlighting the day-long conference were 60+ graduate & professional students sharing over 70 total outstanding presentations in the Oral, Poster and Three-Minute Thesis events.

The GAC brings together graduate and professional students from all disciplines, to present their work/research in front of a generalized audience. Events included Poster Presentations, Oral Presentations (with PowerPoint slides) and the 3-Minute Thesis. The goal of the GAC is to help the students fine-tune their communication skills to be able to explain their research to a non-specialized "lay" audience. A pool of Judges, made up of MSU staff and alumni representing a wide spectrum of education & professional backgrounds, view the students' presentations and provide feedback based on provided rubrics. Though there are cash prizes for the top three presenters in each of the three categories, all students benefit from the practice, questions, and thoughtful critiques from the generalized audience of judges and audience members. The public as well as graduate & Professional students can attend the conference to watch their peers and learn valuable tips for building their own presentation style too. Peer to peer networking is also enjoyed by participants and attendees.

This year's conference concluded with the exciting 3-Minute Thesis, a nationally recognized competition where participants have exactly three minutes to summarize their research. The winner of the COGS 3MT event qualifies to represent MSU at the regional competition held by the Midwestern Association of Graduate Schools (MAGS). MAGS will host the 3MT competition at their 78th Annual Meeting, scheduled for April 6-8, 2022 in Milwaukee, WI. You may also visit http://mags-net.org/three-minute-thesis-award/ for more information on 3MT.

Winners for all GAC events are listed on the attached page and on our GAC Webpage. They were truly outstanding. In fact, all of our presenters amazed us with their important and thoughtful work and made us all proud to be Spartans!

In addition to the student presentations held throughout the day, the GAC also featured two morning workshops. This year our workshops included: *How to Attain post-Graduation Success in the COVID Age,* presented by MSU Career Services , and *Chair+Yoga+You: A Self-Care Tool for Stress Management,* presented by MSU Rec Sports & Fitness.

Highlighting the day was our Keynote Address by Dr. Stephanie Anthony, director of the Office of College Access Initiatives. View Dr. Anthony's information ***here***.

COGS is grateful to our amazing crew of volunteers, including the COGS GAC Committee, our Graduate School sponsors, MSU Alumni Judges, MSU faculty and staff who helped throughout the day and during the months of preparation. We enjoyed a great day and students were grateful to be able to share the experience with their friends, families, and peers in person this year!

COUNCIL OF GRADUATE STUDENTS
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MSU is an affirmative action equal opportunity institution

MEET THE ORGANIZERS

THE GRADUATE ACADEMIC CONFERENCE COMMITTEE



MELINDA MEIRING
NEUROSCIENCE



VERONICA FRANS
FISHERIES AND WILDLIFE

Melinda Meiring is currently serving as the COGS recording secretary and the chair of the Graduate Academic Conference committee. She is a third year PhD student in neuroscience. She earned her B.S. in Neuroscience with a minor in Biology from Wright State University in Dayton Ohio. Her research pertains to how white matter in the brain changes across the lifespan and how it impacts aging and cognition. Currently her work is looking at how structural brain networks change during aging, both in normal aging and Alzheimer's Disease. Melinda is passionate about mentoring and outreach for women and girls in the STEM fields. Outside of research, she enjoys reading, swimming, playing softball, and board game nights with friends.

Veronica Frans is the COGS representative for the Department of Fisheries and Wildlife (CANR). She is a fourth-year PhD student in Fisheries and Wildlife and Ecology, Evolution and Behavior, and also a Visiting Graduate Student of Kellogg Biological Station. Veronica is also in MSU's Community Engaged Scholarship, Spatial Ecology and Modeling Environmental and Social Systems certification programs. She is an NSF GRFP and MSU University Enrichment Fellow. Veronica works at the Center for Systems Integration and Sustainability (CSIS) with Dr. Jianguo (Jack) Liu. She specializes in ecology, geographic information systems, programing, ecological modeling, and community outreach and engagement, and is currently studying human influence in ecological systems.

MEET THE ORGANIZERS

THE GRADUATE ACADEMIC CONFERENCE COMMITTEE



JAMILY LORENA RAMOS DE LIMA
INTEGRATIVE BIOLOGY



TANYA IRETSKAIA
COMMUNITY SUSTABILITY

Jamily Lorena Ramos de Lima is a volunteer for the GAC organizing committee. She is a first year PhD student in the Integrative Biology Department, pursuing a dual degree in the Ecology, Evolution and Behavior Program. She has a BS in Biology and MS in Genetics and Molecular Biology from the Federal University of Para (Brazil). She earned the College of Natural Science Recruitment Fellowship. She is developing research trying to understand whole genome duplication events throughout vertebrate evolution. She has a passion for bridging the gap between art and science. Here at MSU, she has joined the Women in Entrepreneurship Community Organization, volunteering at the MSU Museum, Girls' STEM Day and she is currently developing an activity for the upcoming MSU Science Festival.

Tanya Iretskaia is in her 2nd year of being the COGS representative for the Department of Community Sustainability (CANR), and a 3rd year PhD student in Sustainable Tourism and Protected Areas Management program. She is also this year's FAST fellow (Future Academic Scholars in Teaching) and is currently a GTA for "Introduction to Organismal and Population Biology". Prior to MSU Tanya held several professional positions (ranging from field biologist to international tour guide and facilitator) that allowed her to travel the world – with over 70 countries visited. The 'enchantment' with nature that she encountered in those experiences are now driving her research focus – ecotourism in coastal and marine areas. In her free time Tanya enjoys swimming, all things outdoors and attending the Wharton Center performances. She is excited to be part of GAC planning team this year!

MEET THE ORGANIZERS

THE GRADUATE ACADEMIC CONFERENCE COMMITTEE



GRETA GALLINA
HORTICULTURE



BISMARK AMANIAMPONG
CHEMISTRY

Greta Gallina is a second-year masters student studying horticulture. She is from Florida with a BS in Plant Science from the University of Florida. Greta is the COGS representative for the Department of Horticulture. Her current research on Christmas tree weed management with one experiment testing different herbicide and organic mulch combinations efficacy in Christmas tree weed management and another focused on clopyralid resistant common ragweed management in Christmas tree production. In her free time Greta plays the trumpet in Spartan Brass band and hangs out with her cat, Mackerel.

Bismarck Amaniampong is from Accra, the capital city of Ghana. He has a Bachelor's of Chemistry from the University of Ghana. He later worked with the West African Centre for Cell Biology of Infectious Pathogens, isolating bioactive compounds from fungal sources. He started his Ph.D. in Organic Chemistry at MSU and joined the Draths group in 2019. Bis is currently developing a novel in vivo pathway in Escherichia coli to convert methane and carbon dioxide to lactic acid and succinic acid. This project aims to shift focus from using cellulose-derived glucose as starting material to the more abundant greenhouse gases. Outside the lab, he enjoys playing soccer and video games, watching sci-fi movies and dramas, listening to acoustic RnB music, sound engineering, and photography. He is the COGS representative for the Chemistry Department and the representative on their Educational Policy Committee.

MEET THE ORGANIZERS

THE GRADUATE ACADEMIC CONFERENCE COMMITTEE



HAILE TESFAYE DUGUMA
PACKAGING



DILAVAR GOYAL
BUSINESS

Haile Tesfaye Duguma is an Academic Staff at the Department of Food Science and Post-Harvest Technology, Jimma University, Ethiopia. He received his BSc. and MSc. from Jimma University, Ethiopia with Post-Harvest Management. He has over four years of teaching experience in Food Science and Post-Harvest Technology, he has offered various courses like Fruit and Vegetable Processing, Fat and Oil Processing Technology, Food Packaging technology, Sugar Processing Technology, Sensory Evaluation, and Nutrition sensitive Agriculture. He has published more than 8 papers in reputable journals, reviewed 4 papers for different international journals, and contributed to Harmonized Teacher and Student laboratory guidebook for fruit and vegetable processing. Haile joined MSU's School of Packaging in 2021 for a Ph.D. in Packaging Science. He is 2022 School of Packaging Fellow. Currently, Haile is working on alternative eco-friendly sanitizer for fresh produce.

Dilavar Goyal is a first year MBA student at Broad College of Business in MSU. He did his engineering from India and worked in Oil and Gas industry for 7 years focussing on process development and supply chain optimization at one of the most complex refineries of the world. Concentrating in Supply Chain Management and Business Analytics, he is pivoting himself to the emerging tech industry and will be interning with Amazon this summer. Outside work and school, he loves cooking innovative vegetarian dishes and traveling to serene untouched places.

MEET THE ORGANIZERS

THE GRADUATE ACADEMIC CONFERENCE COMMITTEE



YIMING "SKYLAR" LEI

MEDIA AND INFORMATION

Yiming "Skylar" Lei is a doctoral student in the Department of Media and Information. She earned her Bachelor's degree in Sociology at Sun Yat-sen University in China and her Master's degree in Emerging Media Studies at Boston University. Before coming to the U.S. and started her graduate school, she worked in Ipsos, a marketing research agency, for both quantitative and qualitative teams. She is interested in studying the psychological processing and effects of simulated media world created through interactive media technologies such as video games, virtual and augmented reality. More specifically, she is interested in how factors inside and outside the media simulation (e.g. technology-enabled game mechanics, social context of gameplay, player communities) influence users' presence, empathy, dehumanization, disinhibition, and prosocial behavior. She is also an avid gamer and a tech enthusiast, along with some layperson passion for physics and graphic design.

Winners of the 2022 Graduate Academic Conference

Cash Prizes awarded: $300 for 1st place, $200 for 2nd place,
$100 for 3rd place/people's choice

Oral Presentations

1. **Samridhi Satija,** *Chemistry/Facility for Rare Isotope Beams*
2. **Chayce Griffith,** *Horticulture*
3. **Md Shakir Mahmud,** *Civil and Environmental Engineering*

Poster Presentations

1. **Taylar Dickson,** *College of Human Medicine*
2. **Nicholas Michel,** *College of Osteopathic Medicine; Department of Kinesiology*
3. **Maria Kloboves,** *Food Science & Human Nutrition*

3-Minute Thesis

1. **Pragya Saxena*,** *Pharmacology and Toxicology*
2. **John Tran,** *Plant Biology*

People's Choice: Marzieh Ghiasi, *Epidemiology*

****Advances to MAGS Regional Competition!***

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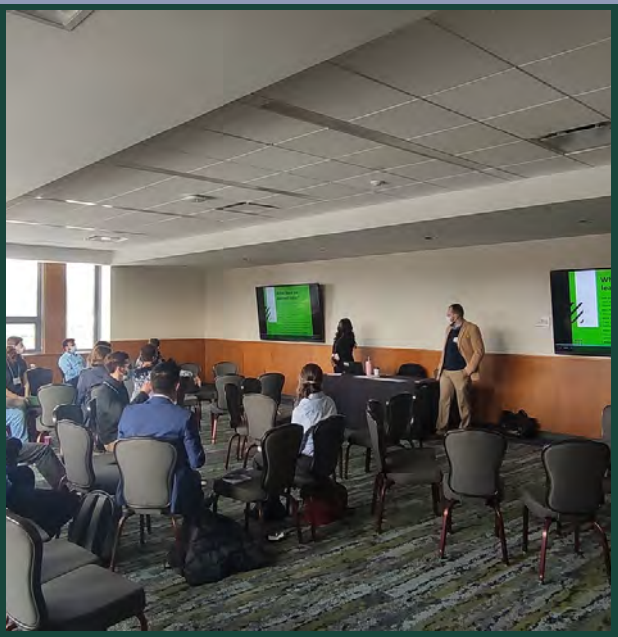
The Council of Graduate Students (COGS) is the constitutionally authorized government representing all graduate and professional students at Michigan State University. COGS actively promotes the improvement of both the individual and collective graduate experience by working with university administrators and faculty on a multitude of graduate student issues.

GAC 2022

Per aspera ad astra: through hardships to the stars



2022 GAC Committee





February 19, 2022
MSU Union

COGS
COUNCIL of GRADUATE STUDENTS
MICHIGAN STATE UNIVERSITY

ORAL PRESENTATION ABSTRACTS

***PRESENTING AUTHOR**

#01, USING A MULTIOMICS APPROACH TO IDENTIFY GENE EXPRESSION PATTERNS IN SOAKED DRY BEAN SEEDS WITH CONTRASTING COOKING TIMES

Hannah Jeffery*, Nyasha Mudukuti, Robin Buell, Kevin Childs, Karen Cichy

Dry beans are a nutritious food, but their lengthy cooking requirements are barriers to consumption. Pre-soaking beans reduces cooking times. While soaking allows hydration to occur prior to cooking, there is evidence that enzymatic changes to pectic polysaccharides also occur during soaking that shorten the cooking time of beans. The role of soaking on reducing cooking time is genotype dependent with some genotypes exhibiting larger and faster rates of cooking time reduction than other genotypes. Little is known about gene expression changes taking place during soaking that influence cooking times or gene expression patterns related to genetic variability for cooking time. The goal of this study was to 1) identify gene expression patterns that occur during a soaking time course and 2) compare gene expression in fast cooking and slow cooking bean genotypes. RNA was extracted from beans at five soaking time points (0, 3, 6, 12, and 18 hrs). Whole genome sequencing (WGS) data was also collected from each genotype. The RNA reads were subjected to DESeq2, weighted gene co-expression network analysis (WGCNA), alignment to QTL for cooking time and water uptake, and GO enrichment analysis. Modules correlated with soaking time and cooking time were discovered. More significant differences in gene expression between the fast and slow cooking genotypes were observed at hour six of soaking relative to hour zero of soaking (raw beans) than at any other time point. Candidate genes for cooking time were identified and their relevance to current theories for the control of cooking time is discussed. In the future, variant calling will be done on the WGS data to identify genes of interest within the QTL.

#02, HARVESTING RADIONUCLIDES FROM HEAVY ION-BEAM IRRADIATED TUNGSTEN AT THE NATIONAL SUPERCONDUCTING CYCLOTRON LABORATORY

Samridhi Satija*, Katharina Domnanich, Jake Bence, John Despotopulos, Nicholas Scielzo, Gregory Severin, Jennifer Shusterman

The interest in ‘Isotope harvesting’ has peaked because of the tremendous quantities of radioisotopes that will be produced during routine operation of ion-beam facilities such as the National Superconducting Cyclotron Laboratory (NSCL) and the upcoming Facility for Rare Isotope Beams (FRIB). There is an opportunity to harvest these by-product radionuclides without the need for a dedicated beamtime which have wide ranging applications in areas such as medicine, stockpile stewardship, material science amongst others. At the NSCL particularly, aqueous isotope harvesting approaches has been investigated but solid isotope harvesting approaches have been explored to a much lesser extent, although they have great potential owing to the flexibility they offer in collection material, location and time. In this work, 88Zr (t1/2 = 83.4 d, Eγ= 392.8 keV) which has important stockpile stewardship application was collected from an irradiated tungsten collector, followed by a radiochemical separation from tungsten and other co-implanted radionuclides. This proof-of-concept solid harvesting approach for 88Zr was important for comparison to its aqueous harvesting results which shows an increase in the collection percentage by three times for solid harvesting. This irradiation and collection has facilitated the development of methodologies that can be used to extract exotic radionuclides like 172Hf, important for nuclear data measurements, from the tungsten beam-blocker, which was employed as a dump for the primary beams at NSCL.

ORAL PRESENTATION ABSTRACTS

***PRESENTING AUTHOR**

#03, THE SHAPE OF AROMA: MEASURING AND MODELING CITRUS OIL GLAND DISTRIBUTION

Erik Amezquita*, Tim Ophelders, Michelle Quigley, Danelle Seymour, Elizabeth Munch, Dan Chitwood

From preventing scurvy to playing key roles in religious rituals, citrus are intrinsically connected to human health and perception. From tiny mandarins to head-sized pummelos, citrus capability of hybridization provides a vastly diverse array of fruit sizes and shapes, which in turn corresponds to a diversity of flavors and aromas. These sensory qualities are tightly linked to oil glands in the citrus skin. The oil glands are also key to understanding fruit development, and the essential oils contained by them are fundamental in the food and perfume industries. We study the shape of citrus based on 3D X-ray CT scan reconstruction of 163 different citrus samples comprising 58 different species and cultivars, including samples of all fundamental citrus species. First, using the power of X-rays and image processing, we are able to compare and contrast size ratios between different tissues, such as the size of the skin compared to the rind or the flesh. Second, we model the fruit shape as an ellipsoidal surface, and later we study and infer possible oil gland distributions on this surface using principles of directional statistics. We finally compare and contrast these overall fruit shape models along their gland distributions across different citrus species. This morphological modeling will allow us later to link genotype with phenotype, furthering our insight on how the physical shape is genetically specified in DNA.

#04, AUXIN AND ABA SPRAYS SIGNIFICANTLY REDUCE BITTER PIT IN 'HONEYCRISP' APPLE

Chayce Griffith*, Todd Einhorn, Randy Beaudry

Bitter pit is a physiological disorder of apple characterized by dark lesions on the surface of fruit. Despite the association of bitter pit incidence with localized calcium (Ca) deficiency, corrective measures to improve Ca content in fruit do not entirely prevent the disorder. Ca transport, in-planta, occurs solely in the xylem, and Ca deficiency is primarily the result of gradual xylem dysfunction during fruit development. Auxin promotes xylogenesis in several plant species. Recent research with ABA also demonstrated a positive effect on xylem integrity and Ca concentrations in tomato and apple fruits. We, therefore, have evaluated early-season applications of auxin (both native and synthetic compounds) and ABA to elucidate the effects on xylem function, nutrient content, and bitter pit incidence of ‘Honeycrisp’ apple. GA was applied as a separate treatment to antagonize xylem development. Throughout the season and at harvest, sampled fruit were infused with dye, sectioned, and imaged to quantify the number of functional vascular bundles. Tissue was collected for mineral analyses. Mature fruit were scored for bitter pit at harvest and after storage and related to seed and nutrient status.Auxins and ABA produced more functional vascular bundles at harvest than control or GA treatments. Bitter pit was reduced by roughly 50% at harvest and after storage for ABA and auxin treatments. Fruit mass and mature seed content decreased with increasing rates of synthetic auxin. Auxin may have merit for reducing bitter pit in susceptible cultivars but additional studies are required to confirm our results and optimize efficacy.

ORAL PRESENTATION ABSTRACTS

***PRESENTING AUTHOR**

#08, DRIVER RESPONSE TO A DYNAMIC SPEED FEEDBACK SIGN ATSPEED TRANSITION ZONES ALONG RURAL HIGHWAYS

Md Shakir Mahmud*, Megat Usamah Megat Johari, Anshu Bamney, Hisham Jashami, Timothy J. Gates, and Peter T. Savolainen

Research was performed to evaluate the effectiveness of a dynamic speed feedback sign as a speed reduction strategy on high-speed rural highways transitioning into rural communities. A primary objective of this research was to assess the effectiveness of the DSFS across various speed limits, considering both the rural highway segment (e.g., 55 vs. 65 mph) and upon entry to the community (e.g., 35 vs. 40, vs. 45 mph). A before-and-after observational study was conducted at five speed transition zones on two-lane rural highways in northern Michigan to evaluate the effectiveness of DSFS on motorist speeds while traversing the speed transition zones.The DSFS consisted of a portable changeable message sign positioned on the shoulder in advance of the reduced speed limit zone. The sign was programmed to display the approaching vehicle's speed alternating with speed limit information. Vehicle speeds were continuously tracked using handheld LIDAR for a sample of vehicles approaching and entering the speed reduction zone at each location before and after installation of the DSFS. The results of this evaluation suggest that the DSFS had a significant effect on vehicle speeds throughout the speed transition zone. The DSFS had the greatest effect on speeds when vehicles reached the DSFS, where speeds were 3.2 to 7.8 mph lower, on average, with the DSFS present at the site. This speed reduction effect was sustained through the remainder of the transition zone, continuing to the speed limit sign posted at the entry to the reduced speed limit zone.

#09, MODERNIST WORKERS' FILM MAGAZINES IN MSU SPECIAL COLLECTIONS ARCHIVES

McKayla Slug

The MSU Radicalism Collection houses important 1930s modernist workers' film magazines New Theatre/New Theatre and Film and FilmFront. Leftist sources were often destroyed throughout the 20th century. Though many periodicals have been digitized, they typically appear without color or back advertisements. Preserving them in original, complete forms therefore is vital to studies of American history and radicalism. Periodicals like New Theatre and FilmFront reveal histories of radical film in the United States that were entangled with movements of avant-garde art and working-class politics in the early 20th century. New Theatre and FilmFront are crucial archival sources for understanding modernist print culture, film periodicals, and working-class intellectual history.

New Theatre/New Theatre and Film (1931-1937) and FilmFront (1935) editors self-declared their journals official organs of workers' film movements in America rebelling against Hollywood and mainstream presses. As outlets for film collectives and individuals, these magazines included theory, techniques, reviews, news, and advertisements to build a transnational workers' film movement. Soviet authors Sergei Eisenstein and Dziga Vertov, for example, appeared alongside American writers Harry Alan Potamkin, Leo Hurwitz, and Samuel Brody. These periodicals served as educational resources to spread knowledge and tools to ignite political action and artistic creation amongst readers. This presentation highlights leftist film writing as part of a broad history of American radicalism while exploring the complexities of archiving leftist materials in institutional collections. It centers the educational intentions of these periodicals at their inception in the 1930s and how their educational functions have shifted now as archival materials.

POSTER PRESENTATION ABSTRACTS

***PRESENTING AUTHOR**

#37, PHYSICIAN PERCEPTIONS OF HPV VACCINE BARRIERS AND PARENTAL HESITANCY

Taylor Dickson

The HPV Vaccine proves controversial among some patient populations for various reasons including cultural beliefs and fear of sexual promiscuity. Many of these factors are fueled by misinformation that serve as barriers to vaccine administration.
This is a descriptive study utilizing mixed methods. Residents and attending physicians from a County Health Department completed surveys to assess HPV vaccine knowledge, comfortability, and parental barriers to administration. The sample included 30 physicians: 22 residents and 8 attendings.
No significant difference (p=0.08) was found; 64% (n=14) of residents and 75% (n=6) of attendings reported feeling "comfortable' regarding knowledge about the HPV vaccine. Regarding comfort level in talking to parents, 59% (n=13) of residents and 25% (n=2) of attendings felt "comfortable". In contrast, 14% (n=3) of residents and 75% (n=6) of attendings felt "very comfortable" (p=0.04). Comfort in recommending the vaccine revealed, 23% (n=5) of residents versus 100% (n=8) of attendings reported "very comfortable" (p=0.001).As for physicians' perceptions of patient concerns, physicians offered two main explanations: 1) parental concerns about vaccine safety [32% (n=7) of residents and 50% (n=4) of attendings], and 2) sexually related [residents 27% (n=6) and attendings 50% (n=4]). A full reporting of all outcomes will be given in the presentation.
The main outcomes of this study speak to misconceptions about the HPV vaccine. The discrepancy between provider vaccine knowledge and discussion comfortability emphasizes the need for potential policy change in provider education. More education also helps in eliminating vaccine stigma by promoting more informative counseling and shared decision making.

#38, POTENTIAL APPLICATION AND LIMITATION OF EDIBLE COATINGS FOR MAINTAINING TOMATO QUALITY AND SHELF LIFE

Haile Duguma

Tomato is among the most commercialized fruits due to its high nutritional value and health promoting compounds. However, tomatoes have a short shelf life because of numerous deteriorating factors. Plastic packaging materials are used to mitigate perishability. Nevertheless, the exhaustion of nonrenewable natural resources used to produce plastics and the demand for eco-friendly packaging entailed search for other alternatives. Edible coatings have emerged as an effective and environmentally friendly alternative to protect fruits from physical and chemical deterioration, and microbial spoilage. The aim of this review was to assess the recent scientific literature regarding the application of edible coatings in maintaining quality and enhancing shelf life of tomatoes. This review has collected and analyzed the most recent studies about the application of edible coatings of tomato. The available literature has indicated that different edible coatings such as chitosan, pectin, gum, aloe vera gel, gelatin and starch have the potential to maintain physico-chemical and sensory qualities and improve shelf life of tomatoes. Edible coatings and films can be used as an alternative for nondegradable plastic packaging materials due to biodegradability, non-toxicity, availability, and effectiveness in maintaining tomato quality. Despite numerous benefits, most edible coatings have poor barrier properties, and some impart undesirable flavor on produce. This review suggests that blending edible coatings with essential oil and active compounds using nanotechnologies like nanoencapsulation and multilayer could be used to overcome the limitations of edible coatings. This review helps the tomato value chain actors to select an effective edible coating for tomato to enhance shelf life, and reduce quality loss.

POSTER PRESENTATION ABSTRACTS

***PRESENTING AUTHOR**

#49, UNDERSTANDING THE TRENDS IN RACE, SEX, AND AGE: AN EPIDEMIOLOGICAL DESCRIPTIVE STUDY OF SOCIO-DEMOGRAPHIC FACTORS FOR COVID-19 DEATHS AND CASES IN MICHIGAN

David Klemet*, Mohaymin Kadir, Ya Yang, Madison Polay, Charles Lim Olsen, Jeanette Batres; Manvinder Toor

While disparities have been observed in the impacts of COVID-19 in the United States, there is limited literature available specific to the state of Michigan. The purpose of this study is to understand if the nationally observed disparities exist in Michigan.This study analyzeddisparities by examiningdata from theMichigan Department ofHealth and Human Services (MDHHS) with attention to prevalence rates and case fatality rates for COVID-19 in Michigan. Analysis was done through the calculation of crude prevalence. Race-specific and sex-specific prevalences were calculated individually to highlight differences based on socio-demographic factors. Findings revealed that: (1) males are more likely to test positive and die from COVID-19 compared to females, (2) Black/African American individuals have higher fatality rates when compared to other racial groups, and (3) older adults are found to have higher death rates than younger adults. Thesefindings are importantas they teaseout existing healthdisparities from COVID-19. Thisstudy suggests that COVID-19 mitigation efforts should focus on the socio-demographic factors that are most disproportionately affected by COVID-19.

#50, ASSOCIATIONS OF MATERNAL OBESITY WITH NEWBORN REPRODUCTIVE MARKERS

Maria Kloboves*, Diana C. Pacyga, Susan L. Schantz, Rita S. Strakovsky

Background: Maternal obesity may impact offspring reproductive health. Therefore, we evaluated newborn anogenital distance (AGD) and 2:4 digit ratios (2:4D) as early reproductive health predictors. Methods: Pregnant women aged 18-40 year from Illinois (n=460) reported pre-pregnancy weight and height to calculate pre-pregnancy BMI. At 10-14 weeks gestation, we measured waist and hip circumferences, weight, % fat, visceral fat level, % muscle, and BMI. At birth we measured newborn 2nd and 4th left/right fingers to calculate the 2:4D. In females, we measured AGDshort (anus-to-fourchette) and AGDlong (anus-to-clitoris). In males, we measured AGDshort (anus-to-scrotum) and AGDlong (anus-to-penis). Sex-stratified linear regression models accounted for important sociodemographic/lifestyle factors. Results: Most mothers were college educated and non-Hispanic white, and half were under-/normal weight pre-pregnancy. Maternal anthropometrics were associated with AGD (not 2:4D), only in female newborns. AGDlong was 0.99 and 1.02 mm longer per each interquartile range (IQR) increase in pre- (95%CI: 0.33, 1.65) and early-pregnancy (95%CI: 0.19, 1.86) maternal weights, respectively. AGDshort was 0.68 and 0.66 mm longer per each IQR increase in pre- (95%CI: 0.20, 1.16) and early-pregnancy (95%CI: 0.12, 1.20) maternal weights, respectively. AGDlong was also 0.75 mm (95%CI: 0.16, 1.33) longer per each IQR increase in maternal pre-pregnancy BMI. AGDlong was 0.91 mm (95%CI: 0.20, 1.61) longer per each IQR increase in hip circumference, whereas AGDshort was 0.55 mm (95%CI: 0.06, 1.04) and 0.58 mm (95%CI: 0.04, 1.12) longer per each IQR increases in hip and waist circumference, respectively. Implications: Obesity during pregnancy may alter the female AGD, warranting further investigation.

***PRESENTING AUTHOR**

#53, "IT'S A FEELING THAT ONE IS NOT WORTH FOOD": A QUALITATIVE STUDY EXPLORING THE PSYCHOSOCIAL EXPERIENCE AND ACADEMIC CONSEQUENCES OF FOOD INSECURITY AMONG COLLEGE STUDENTS

Anthony Meza

Background: The issue of food insecurity is one of growing concern among institutions of higher learning in the United States. In addition to studies on the prevalence and risk factors, research is needed to better understand the mechanisms by which food insecurity affects students' health and well-being. Objective: To critically explore the experience of food insecurity among college students and its impact on psychosocial health and academic performance. Design: In-depth qualitative interviews were conducted with college students to gain a better understanding of the mechanisms by which food insecurity affects their psychosocial health and academic performance. Participants/setting: Twenty-five undergraduate students from a large public university in California who were recruited from a campus food pantry. Results: Students discussed several themes related to the psychosocial effects of food insecurity: the stress of food insecurity interfering with daily life, a fear of disappointing family, resentment of students in more stable food and financial situations, an inability to develop meaningful social relationships, sadness from reflecting on food insecurity, feeling hopeless or undeserving of help, and frustration directed at the academic institution for not providing enough support. Students also discussed how food insecurity affected their academic performance through physical manifestations of hunger and the mental trade-off between focusing on food and focusing on academics. Conclusion: These findings contribute to the understanding of what it means to experience food insecurity in higher education and can inform how universities support students' basic needs.

#54, VALIDATING A SEMI-AUTOMATED TOOL FOR QUANTIFYING KNEE CARTILAGE THICKNESS AND ECHO-INTENSITY ON ULTRASOUND IMAGING

Nicholas Michel*, Matthew Harkey

Objective: To validate a semi-automated technique to segment ultrasound-assessed femoral cartilage without compromising accuracy compared to a traditional manual segmentation technique in participants with an anterior cruciate ligament injury (ACL). Design: We recruited 27 participants with a primary unilateral ACL injury at a pre-operative clinic visit. One investigator performed a transverse suprapatellar ultrasound scan with the participant's injured knee in maximum flexion. Three femoral cartilage ultrasound images were recorded. A single expert reader manually segmented the femoral cartilage area in each image. Additionally, we created a semi-automatic program to segment the cartilage using a random walker-based method. We quantified the average cartilage thickness and echo-intensity for the manual and semi-automated segmentations. ICC2,k and Bland-Altman plots were used to validate the semi-automated technique to the manual segmentation for assessing average cartilage thickness and echo-intensity. A dice correlation coefficient was used to quantify the overlap between the segmentations created. Results: For average cartilage thickness, there was excellent reliability (ICC2,k=0.99) and a small mean difference (+0.8%) between the manual and semi-automated segmentations. For average echo-intensity, there was excellent reliability (ICC2,k=0.97) and a small mean difference (-2.5%) between the manual and semi-automated segmentations. The average dice correlation coefficient between the segmentations was 0.90, indicating high overlap between techniques. Conclusions: Among knees with a recent ACL injury, our novel semiautomated segmentation technique is a valid method that requires less technical expertise than manual segmentation.

3 MINUTE THESIS COMPETITION
3:15-4:15



PRESENTER & TITLE

THU DUONG

WHETHER YOU ARE READY TO DELIVER OR NOT, YOUR CLOCK MAY BE ABLE TO SAVE THE DAY

FAHMI DWILAKSONO

EVALUATION OF OPERATIONAL PERFORMANCE AND ENVIRONMENTAL IMPACT OF A COMMERCIAL SCALE ANAEROBIC DIGESTER UTILIZING MULTIPLE FEEDSTOCKS

MARZIEH GHIASI

SYMPTOM-BASED SUBGROUPING IN CHRONIC PELVIC PAIN

MUMTAHIN HASNAT

DEVELOPMENT OF AN ENHANCED PAVEMENT CONDITION SCORE FOR MICHIGAN

OSCAR ISTAS

CAN WE IMPROVE NATURAL ENEMIES TO TARGET INVASIVE SPECIES?

RAHUL JAIN

WHERE DO THE ELEMENTS COME FROM?

MD SHAKIR MAHMUD

EVALUATION OF DYNAMIC SPEED FEEDBACK SIGNS ON FREEWAY INTERCHANGE RAMPS

MARIA MILAN

CHARACTERISTICS OF RESIDENTIAL INFRASTRUCTURE IN RURAL ALASKA - TO IMPROVE EFFICIENCY AND COMFORT

SAMRIDHI SATIJA

ISOTOPES ARE COOL- HARVESTING RADIONUCLIDES FROM WASTE

PRAGYA SAXENA

COMPOUND 48/80 INCREASES BLADDER WALL COMPLIANCE INDEPENDENT OF MAST CELLS

AMIT SHARMA

CHILDREN'S EXPERIENCE OF JOYFUL LEARNING THROUGH PLAY WITH (MATH) GAMES/TOYS

JOHN TRAN

MUTANT ANALYSIS OF A POLYOL MONOSACCHARIDE TRANSPORTER IN ARABIDOPSIS INVOLVED IN LIGNIFICATION

2021 - 2022 Committee Appointment Recommendations

Academic Governance

THE STEERING COMMITTEE

1. Sara Hugentobler - COGS President, hugentob@msu.edu
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UNIVERSITY COMMITTEE ON FACULTY TENURE

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UNIVERSITY COMMITTEE ON GRADUATE STUDIES (UCGS)

*At least two members will serve on COGS Graduate Welfare Committee

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5. Maria Kloboves, kloboves@msu.edu

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5. Jonah Branding; brandin2@msu.edu

2021 - 2022 Committee Appointment Recommendations

Advisory committees

ACCOMMODATING TECHNOLOGY COMMUNITY

1. VACANT

ALL-UNIVERSITY AWARDS COMMITTEE

1. Not currently requesting representatives

CELEBRATIONS COMMITTEE

1. Carly Gomez (CANR/BAE), gomezca2@msu.edu

CITY OF EAST LANSING UNIVERSITY STUDENT COMMISSION

1. Zoe Hansen (CNS/MMG), hansenzo@msu.edu

COMMENCEMENT COMMITTEE

1. Jacob Howe (CNS/NEU), howejaco@msu.edu

DPPS OVERSIGHT COMMITTEE

1. Joshika Chande; chandejo@msu.edu

MSU BIKES ADVISORY COMMITTEE

1. Robert Fidis; fidisrob@msu.edu

MSU FOOD COMMITTEE

1. Adeline Newmann; newmann4@msu.edu

OUT OF STATE FEES COMMITTEE

1. Kim Martin (A&L/THR), mart2574@msu.edu

PRESIDENT'S ADVISORY COMMITTEE ON DISABILITY ISSUES

1. Kaitlyn Casulli (CANR/BAE), casullik@msu.edu

RADIO BOARD

1. Kayleigh Ward, Treasurer,

STUDENT INSURANCE ADVISORY GROUP

1. Kyla Cary (SS/HDFS), carykyla@msu.edu
2. Luis Suarez (CNS/MTH), suarezs3@msu.edu
3. Brittany Hartley; hartle81@msu.edu

UNIVERSITY COMMITTEE ON HONORS PROGRAMS

1. VACANT

2021 - 2022 Committee Appointment Recommendations

UNIVERSITY COMMITTEE ON INTERNATIONAL STUDIES AND PROGRAMS

1. Tanya Iretskaia (CANR/CSUS), iretskai@msu.edu
2. Sujoy Saha (EGR/CHE), sahasujo@msu.edu

UNIVERSITY COMMITTEE FOR THE LIBRARY

1. Ye Ma; maye2@msu.edu
2. Goheth Motamarri (SO/ISA), motamarr@msu.edu

UNIVERSITY ADVISORY COMMITTEE ON THE NAMING OF BUILDINGS AND FACILITIES

1. Office of the president *UPDATE CONTACT INFO FOR NEXT TERM - Pres. Office will contact us for opening

UNIVERSITY UNION ADVISORY BOARD

1. Mumtahin Hasnat; hasnatmu@msu.edu
2. Laine Fenchel (SS/HRLR), fenchell@msu.edu

Multicultural Planning Committee

1. Jesenia Rosales (rosale25@msu.edu)

2021 - 2022 Committee Appointment Recommendations

Board of Trustees Established committees

ALL-UNIVERSITY TRAFFIC AND TRANSPORTATION COMMITTEE

1. Meenakshi Sudhakaran (CNS/PSL), sudhaka7@msu.edu
2. Brandon Webster (CNS/PLB), webst250@msu.edu

ATHLETIC COUNCIL

1. VACANT PENDING APPOINTMENT FROM PRESIDENT'S OFFICE

WOMEN'S ADVISORY COMMITTEE TO PROVOST

1. Jennifer Junkermeier-Kahn; junkerme@msu.edu

WOMEN'S ADVISORY COMMITTEE TO THE VP FOR STUDENT AFFAIRS

1. Chelsi Ricketts (EDU/KIN), ricket41@msu.edu

2021 - 2022 Committee Appointment Recommendations

Judiciaries - Graduate School

UNIVERSITY GRADUATE JUDICIARY (UGJ)

1. Jennifer Paruk (SS/CJ), parukjen@msu.edu
2. Kitty Groeller (SS/SOC), groeller@msu.edu
3. Polina Naumova (SS/SW), naumovap@msu.edu

UNIVERSITY GRADUATE-PROFESSIONAL JUDICIARY (UGPJ)

1. Patrick Ancheta (CHM/HM), anchetap@msu.edu
2. Shalini Shashidhara (VM), shashidh@msu.edu
3. Hemal Dholakia (OM/OM), dholaki9@msu.edu
4. Lauren Pageau (NUR): pageaula@msu.edu
5. Madelyn Orndoff (HM); orndorf2@msu.edu

Judiciaries - Dean of Students

ALL-UNIVERSITY STUDENT HEARING BOARD (AUSB) 2021-2022

1. Callie Harris
2. Osma Alian
3. Anfal Marafie
4. Travis Carter
5. Mariah Hagadone-Bedir
6. Monique Noel

UNIVERSITY STUDENT APPEALS BOARD (USAB)

1. Rhia Dunn (SS/ANP), dunnrhia@msu.edu

STUDENT FACULTY-STAFF HEARING BOARD - (SFSB) 2021-2022

1. Eric Katz
2. Mary Rutemeyer

2021 - 2022 Committee Appointment Recommendations

COGS Committees

COGS CONSTITUTION & BYLAWS COMMITTEE

1. Hunter McFall-Boegeman; mcfallbo@chemistry.msu.edu
2. Christian Henry; henrych5@msu.edu
3. Erik Amezquita (Morataya); amezqui3@msu.edu
4. OPEN SEAT

COGS FINANCE COMMITTEE

*There shall be exactly five voting members of the Finance Committee, each from a different department, and representing at least three University Colleges.

1. Louise DuRussel (BUS/MBA), duruss10@msu.edu
2. EJ Harris (A&L/RW), harr1690@msu.edu
3. Miles Roberts (CNS/GEN), robe1195@msu.edu
4. Hieu Le (CNS/PHY), lehieu1@msu.edu
5. Anh Do (SS/EC), doanh@msu.edu

COGS GRADUATE ACADEMIC CONFERENCE (GAC)

1. Veronica Frans (CANR/FW), fransver@msu.edu
2. Greta Gallina; gallinag@msu.edu
3. Heidi Krauss; kraussh2@msu.edu
4. Bismark Amaniampong; amaniam2@msu.edu
5. Skylar Lei; leiyimin@msu.edu
6. Jamily Ramos De Lima; ramosdel@msu.edu
7. Tanya Iretskaia; iretskai@msu.edu

COGS MENTAL HEALTH / GRADUATE WELFARE COMMITTEE

1. Steve Tchoneteck; tchonete@msu.edu
2. Andres Kenney; guerre94@msu.edu
3. Mariko Ito; itomari1@msu.edu
4. Unlimited seats

COGS REPRESENTATION COMMITTEE

1. Antoinette Shirley; shirle14@msu.edu
2. Hannah Jeffery; jeffer90@msu.edu
3. Mircea Lazar; lazarmi1@msu.edu
4. OPEN SEAT
5. OPEN SEAT

2021 - 2022 Committee Appointment Recommendations

COGS Equity & Anti Discrimination COMMITTEE

1. VACANT
2. VACANT







COGS FALL 2021 RECAP










SPARTANS
FREE


SPARTAN BASKETBALL


THIS IS WHAT A FEMINIST LOOKS LIKE
WOMEN'S
STUDENT SERVICES






COGS
COUNCIL OF GRADUATE STUDENTS












The Graduate School
Chittenden Hall
466 W Circle Drive










Panera
BREAD


4/11
4PM
Chapelure
Coffee & Connection!
SPRING 2022 EDITION
FUTURE DATES & LOCATIONS WILL BE UPDATED @
COGS.MSU.EDU/UPCOMING-EVENSTS - JOIN US!
COGS
COUNCIL of GRADUATE STUDENTS
MICHIGAN STATE UNIVERSITY




COGS Virtual Coffee Hour
COZY UP WITH ANOTHER CUP!
Tuesday, January 18th | 4 pm est
Grab your beverage and come hang out with us!
Participants will receive a complimentary Starbucks card after event.
Register for Zoom Link: https://bit.ly/COGSCoffee


Coffee
&
Connection!







2022
COGS SPRING RECAP



















Graduate & Professional Students

SOCIAL MEDIA STUDY BREAK

Instagram: @cogsmsu | Twitter: @cogsmsu | Facebook: COGS MSU

Graduate & Professional Student Appreciation Week

Monday: What is your go to self-care?

Wednesday: Who is a graduate or professional student you admire or respect?

Watch COGS Social Media (4/4) & (4/6) for chances to win gift cards! Look for Social Media Study Break posts and respond to our prompts and you could be chosen to win a $25 gift card! We will have 3 winners each day, 1 across each social media platform. Contest ends Wednesday (4/6) & Friday, (4/8) at 8:30pm EST and winners will notified by reply/tag.

COGS COUNCIL of GRADUATE STUDENTS MICHIGAN STATE UNIVERSITY

Winter Hike

WITH THE MSU COUNCIL OF GRADUATE STUDENTS

Bundle up, grab a friend and let's explore the trails at Woldumar Nature Center together!

Saturday, January 29, 2022 • Meet at 2 pm
5739 Old Lansing Rd, Lansing, MI 48917
woldumar.org

*Gather at the Rock outside office/Educ. building near parking lot

cogs.msu.edu

COGS COUNCIL of GRADUATE STUDENTS MICHIGAN STATE UNIVERSITY

SPRING HIKE

with The Council of Graduate Students

It's warming up! Time to get outside! Come join other graduate & professional students as we meet up to explore the local trails at Fenner Nature Center.

Sunday, April 3, 2022 • Meet at 2 pm
2020 E. Mount Hope Ave, Lansing, MI 48910

*Gather at the steps outside the Visitor Center

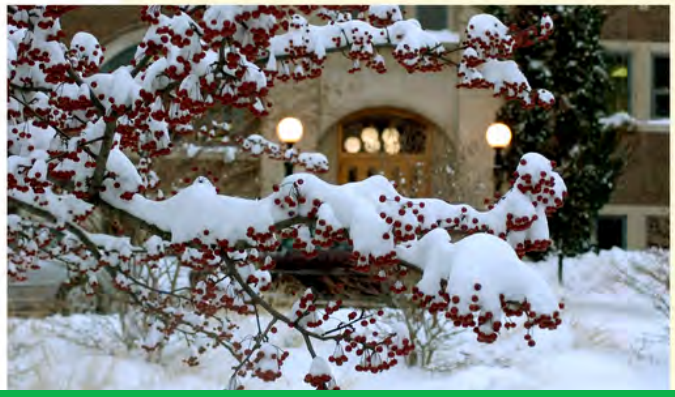
MYNATURECENTER.ORG

COGS COUNCIL of GRADUATE STUDENTS MICHIGAN STATE UNIVERSITY

14TH ANNUAL

2022

GRADUATE ACADEMIC CONFERENCE



KODAK PORTA 400

HIGH CALIBER

KARTING AND ENTERTAINMENT

APRIL 8, 2022 | 7-10 PM

HIGH CALIBER KARTING AND ENTERTAINMENT
1982 W GRAND RIVER AVE #800
OKEMOS, MI 48864

COGS Tickets $10 - includes COGS VIP Room, Snacks, Tier-2 Wristbands for unlimited Axe-Throwing, Throw-Bowling, Pocket-Soccer, Nerf or Archery Tag and more! Guests can purchase karting & extra activities onsite if desired. Must sign MDR&E waiver to participate. 50 tickets will be available for sale. See COGS Storefront link above to purchase.

KODAK PORTA 400

out to the ball game!

Lansing Lugnuts vs Michigan Whitecaps
Saturday, May 7th | 7:05PM
Jackson Field - Home Of The Lansing Lugnuts

LAFCU Fireworks after game!
Comic Book Day giveaway!

Stop by the COGS Office April 4-8 and pick up FREE tickets while they last.

COGS is located in Chittenden Hall, Suite 120 and W. Circle Drive
cogs@cogs.msu.edu



INSANELY FUN GAME NIGHT

BRING YOUR FAVORITE BOARD OR CARD GAME TO PLAY!
SNACKS WILL BE PROVIDED.

FRIDAY APRIL 1 @ 6-8PM
CHITTENDEN HALL LOUNGE

COGS COUNCIL of GRADUATE STUDENTS MICHIGAN STATE UNIVERSITY

SPRING VIRTUAL YOGA SERIES

EVERY THURSDAY FROM 5:30-6:30 PM

Grad Student Life and Wellness Office and Cou
e Students is elated to be providing weekly, vi
s at no cost to MSU students with the support
Recreational Sports and Fitness Services!

ister here: https://forms.gle/AyQeYiaMSZ3evD
t Erin Kramer, at kramere6@msu.edu with any q



The MSU Council of Graduate Students Presents

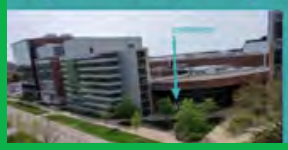
TOURS OF THE NSCL & FRIB AT MSU!

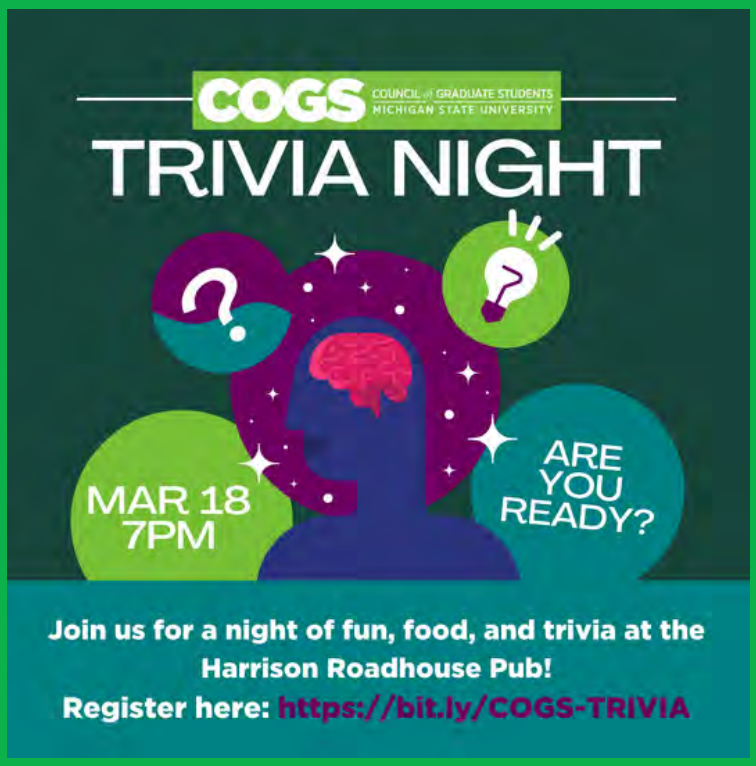
Curious about the NSCL & FRIB?

Come on out and explore with the Council of Graduate Students and your grad student peers as we tour the National Superconducting Cyclotron Laboratory and learn about the Facility for Rare Isotope Beams! Must register, space is limited. Registration forms will be listed on the COGS website and will open starting at noon on 3.14.22.

REGISTRATION STARTS: March 14th
cogs.msu.edu/upcoming-events/

TWO CHANCES!
APRIL 5TH @ 10 AM
APRIL 6TH @ 2PM




COGS
COUNCIL of GRADUATE STUDENTS
MICHIGAN STATE UNIVERSITY
TRIVIA NIGHT
MAR 18
7PM
ARE
YOU
READY?
Join us for a night of fun, food, and trivia at the
Harrison Roadhouse Pub!
Register here: https://bit.ly/COGS-TRIVIA




LIVE
MSU WOMEN
BASKETBALL GAM
RESERVED GRADUATE STUDENT SE
SECTIONS
FEBRUARY 27, 2022 |
FREE WITH MSU STUD
CHECK FOR GAME INFO & PROT
MSUSPARTAN
VS
OHIO STATE







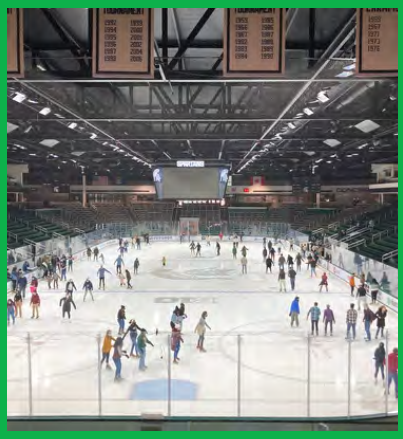




















The MSU Council of Graduate Students Presents

TOURS OF THE NSCL & FRIB AT MSU!

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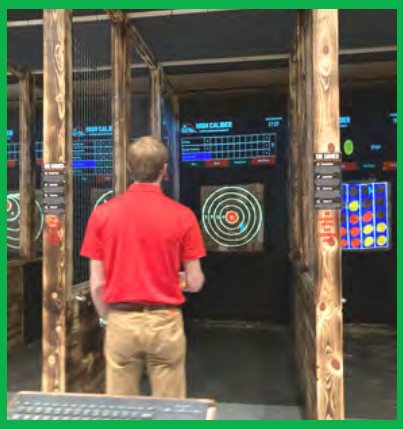
REGISTRATION STARTS: March 14th
cogs.msu.edu/upcoming-events/

TWO CHANCES!
APRIL 5TH @ 10 AM
APRIL 6TH @ 2PM



























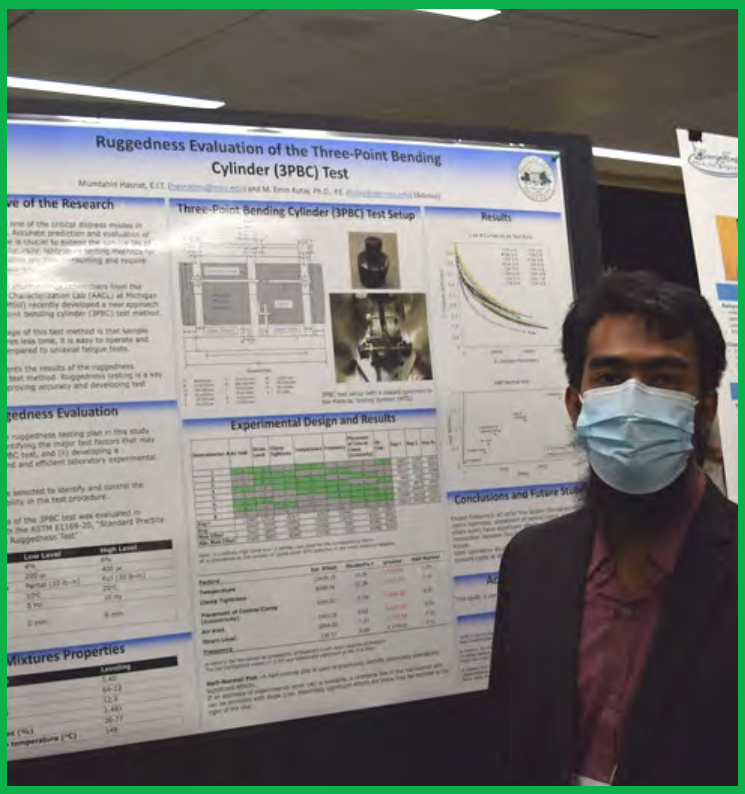









2022 STUDENT REFERENDUM AND ELECTION WEEK
APRIL 4 - APRIL 10
VOTE
BALLOTS OPEN: 8 A.M. (ET) ON MON., APRIL 4
BALLOTS CLOSE: 11:59 P.M. (ET) ON SUN., APRIL 10
VOTE AT STUDENTELECTIONS.MSU.EDU





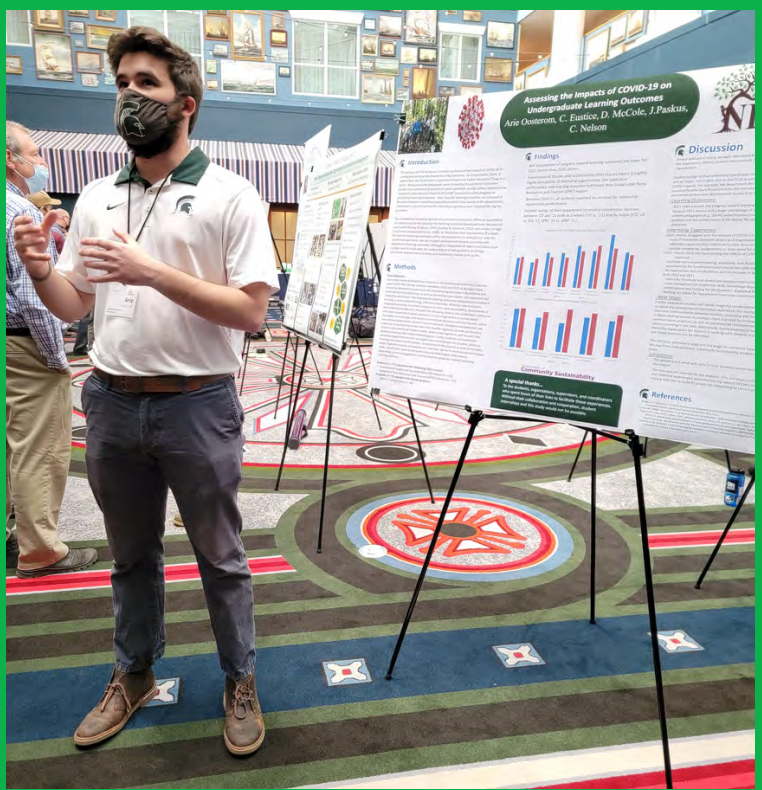




A closer look into the GAC presentations!







2021-22 COGS DISCIPLINARY LEADERSHIP AWARD RECIPIENTS

https://grad.msu.edu/2021-22-cogs-leadership-endowment-fellowship-recipients



TRACY MELVIN
FISHERIES AND WILDLIFE



CHELSIE BOODOO
BIOMEDICAL ENGINEERING



AMANDA KOENIG
GENETICS AND GENOME SCIENCES
MOLECULAR PLANT SCIENCES



CORBIN STANDLEY
ECOLOGICAL-COMMUNITY PSYCHOLOGY



SARAH GALVIN
EDUCATIONAL PSYCHOLOGY & EDUCATIONAL TECHNOLOGY