



GEORGIA ACADEMY OF SCIENCE

ANNUAL MEETING

March 27th–28th, 2026

Georgia Gwinnett College (GGC)

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GEORGIA ACADEMY OF SCIENCE
Supporting the Physical, Environmental, Social, Biological, and Medical Sciences

February 9, 2026

Dear Members of the Georgia Academy of Science and Guests,

Welcome to the 103rd Annual Meeting of the Georgia Academy of Science. Please join me in extending a heartfelt “Thank You” to Dr. Jann Joseph, President of Georgia Gwinnett College (GGC), and Dr. Chavonda Mills, GGC Provost, who invited the Academy of Science to their beautiful campus. We have 90+ oral presentations and 90 poster presentations to enjoy over these two days.

A special “Thank You” is due the members of the GGC Local Arrangements Committee, chaired by Dr. Anca Doloc-Mihu and Dr. Indhira De La Rosa, for their hard work organizing this event. I am looking forward to the Keynote Address by Dr. Ronald L. Calabrese, from Emory University, and thank him for his support of the Academy.

We would not be here without the amazing work of the nine section chairs who facilitated the abstract submission and review process, and the Georgia Journal of Science editors who produced the Abstract Volume; to all of you, please accept my sincerest gratitude for your continued dedication to the Academy.

As stated in the Academy’s constitution, “The purpose of this organization shall be the promotion of the interests of science by activities such as holding an annual meeting for presentation of research”. Thank you to all members of the Academy for your efforts to increase science literacy in Georgia.

Sincerely,

A handwritten signature in cursive script that reads "Alfred J. Mead".

Alfred J. Mead, Ph.D.,
President, Georgia Academy of Science
Professor of Biology
Department of Biological and Environmental Sciences
Georgia College & State University

**Office of the President**

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August 28, 2025

Dr. Alfred "Al" Mead
President, Georgia Academy of Science
Georgia College and State University
Milledgeville, GA 31061

Dear Dr. Mead,

On behalf of the faculty, staff, and students at Georgia Gwinnett College (GGC), I am delighted to extend a warm invitation for the Georgia Academy of Science to hold its 2026 annual meeting on our vibrant campus.

GGC offers a welcoming environment with state-of-the-art facilities to support a conference of this caliber. Our stunning new Convocation Center provides the perfect venue for large gatherings, while our modern classrooms and flexible meeting spaces are ideal for concurrent sessions, presentations, and interactive workshops. You will also find our logistical support and IT services well-coordinated to ensure a seamless experience for all participants.

Beyond our facilities, what makes GGC an especially fitting host is the natural alignment between our mission and the Academy's. GGC's unwavering focus on student success and career-embedded learning reflects your own commitment to preparing students not only for their professions but also for their roles as leaders in their communities. As a former professor of science, I deeply value and applaud the Academy's impact in fostering curiosity, collaboration, and confidence among both faculty and students.

It would be an honor and a joy to welcome the Georgia Academy of Science to our campus in 2026. I am confident you will find our community to be gracious and hospitable, our students eager to engage, and our campus both beautiful and inspiring. We look forward to hosting you in March for a memorable and impactful annual meeting.

With best wishes,

A blue ink signature of Dr. Jann L. Joseph, which is a stylized, cursive representation of his name.

Dr. Jann L. Joseph
President

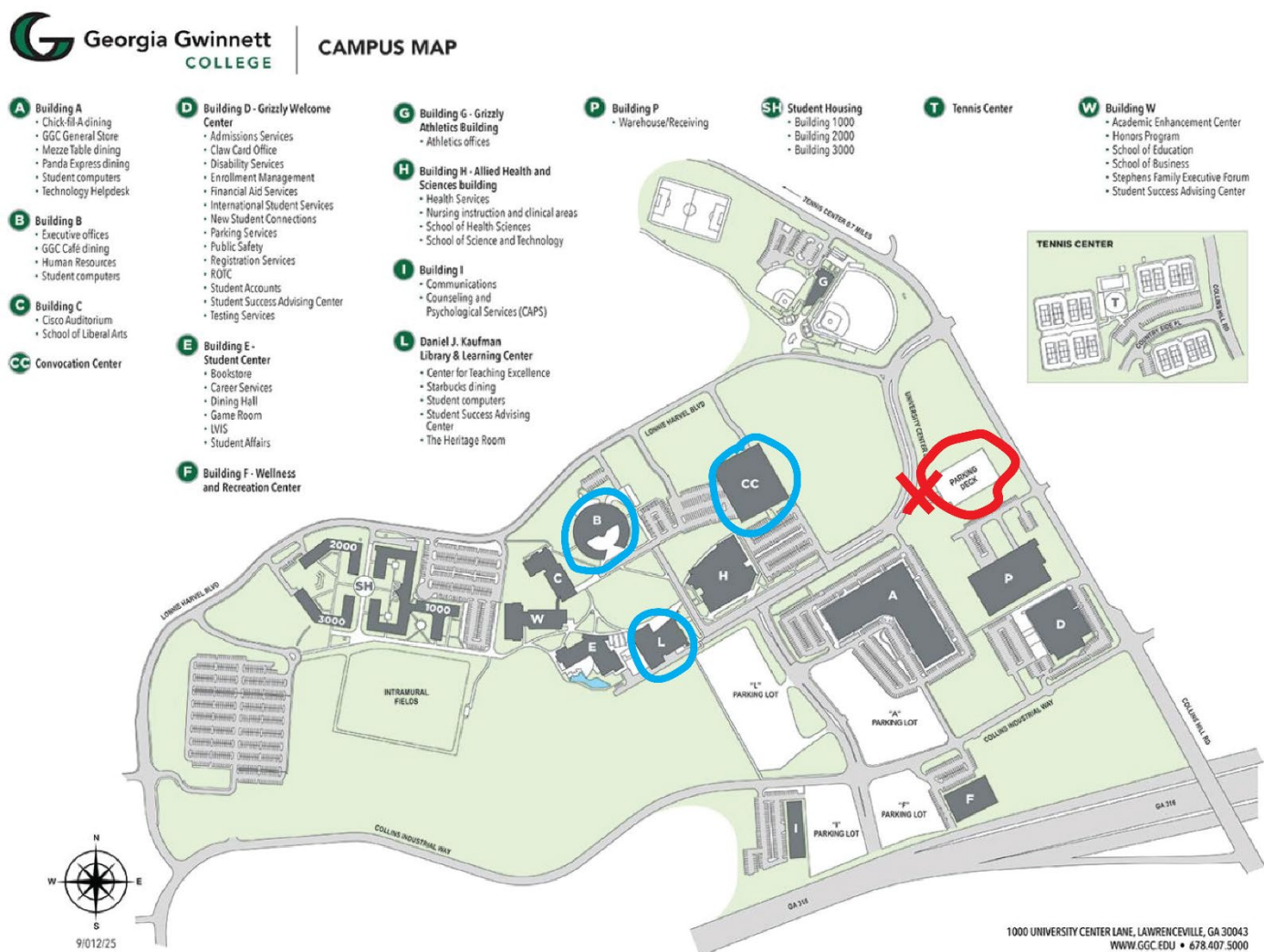
GGC MAP

Parking in the Parking Deck building – marked with red on the map

Golf Carts pickup and drop off from/to Parking Deck – marked with red cross

Venue Buildings – marked in blue:

- Building B – for registration and orals
- Convocation Center (CC) – for posters
- Building L – for Saturday keynote speaker, lunch and business meeting



GAS 2026 PROGRAM

Friday, March 27, 2026

9:30 am to 5:00 pm: On-site Registration.....	Building B Atrium
1 pm to 3:00 pm: Georgia Academy of Science Board of Directors business meeting closed to the public.....	Room B - 3650
10 am to 3:00 pm: Extra Oral Sessions	
Section I: BIOLOGICAL SCIENCES	Room B – 1600
Section IV: PHYSICS, MATHEMATICS, COMPUTER SCIENCE, ENGINEERING AND TECHNOLOGY.....	Room B – 1000
12:30 pm to 3:00 pm: Poster Set-up	Convocation Center CC)
3:00 pm – 3:15 pm: Opening Remarks, GGC Provost Dr. Chavonda Mills and GAS President Dr. Alfred Mead.....	Convocation Center (CC)
3:15 pm – 3:30 pm: Break	
3:30 pm to 5:30 pm: Poster presentations, refreshments served	Convocation Center (CC)

Saturday, March 28, 2026

7:30 am to 8:30 am: Breakfast.....	Building B Atrium
7:30 am to 1:00 pm: On-site Registration	Building B Atrium
8:00 am to 12:00 pm: Oral presentations/Section Business Meetings	
Section I: BIOLOGICAL SCIENCES	Room B – 1600
Section II: CHEMISTRY.....	Room B-1660
Section III: EARTH AND ATMOSPHERIC SCIENCES.....	Room B-1650
Section IV: PHYSICS, MATHEMATICS, COMPUTER SCIENCE, ENGINEERING AND TECHNOLOGY	Room B – 1000
Section V: BIOMEDICAL SCIENCES.....	Room B –1100
Section VI: PHILOSOPHY AND HISTORY OF SCIENCE.	Room B – 1950
Section VII: SCIENCE EDUCATION.....	Room B-1500
Section VIII: ANTHROPOLOGY.....	Room B – 1900
Section IX: PSYCHOLOGICAL SCIENCE.....	Room B – 1200

10:00 am to 11:00 am: Section Business MeetingSame Rooms as noted above
 12:00 pm – 12:15 pm: Break
 12:15 pm to 1:00 pm: Keynote SpeakerBuilding L, LVIS Hall
 1:15 pm to 2:00 pm: LunchBuilding L, LVIS Hall
 2:00 pm to 2:30 pm: Student awards and Academy Business Meeting.....LVIS Hall

Keynote Talk: How modeling shaped my views of the nervous system

Ronald L. Calabrese, Ph.D. Ronald (Ron) L. Calabrese received his BS in Biochemistry in 1969 from Cornell University and his PhD in Neurobiology from Stanford University in 1975. He did postdoctoral research at University of California at Berkeley from 1975-1976 and at University of California San Diego from 1987-1978. His research focused on the electrophysiological analysis of neuronal networks with an abiding interest in how rhythmic motor patterns are generated and a commitment to using the smaller neural networks of invertebrates, such as the leech, to answer fundamental questions in this area. In 1978, he accepted the position of Assistant Professor of Cellular and Developmental Biology at Harvard University and was promoted to Associate Professor in 1983. He then moved to Emory University Department of Biology in 1986. At Emory he began to develop an interest and skills in biophysical analysis of neuronal ionic currents and in computational modeling of neuronal networks. He used these tools to further his analysis of rhythmic motor pattern generation and modulation. These interests sustained his research going forward and he attained the position of Samuel Candler Dobbs Professor of Biology in 2008. At Emory he was a founding member of the undergraduate Neuroscience and Behavioral Biology Program at Emory, and he taught in the program for his entire career. He served as Director of the Graduate Program in Neuroscience, Emory University, 1993-2004 and taught in the Neural Systems and Behavior summer lab course (Co-Director 1990-1994) at the Marine Biological Laboratory Woods Hole for 30 years. He served as Senior Associate Dean for Research, Emory College of Arts and Sciences 2015-2022 but continued his teaching in the Neuroscience and Behavioral Biology Program. He retired in 2023 and was appointed Professor Samuel Candler Dobbs Professor of Biology Emeritus. He still collaborates with colleagues at GSU and Brandeis University on projects related to computational modeling of motor neuronal networks.

ORAL and POSTER PRESENTATIONS

*Denotes student presenter

**Denotes student research in progress

Section I: Biological Sciences Room B – 1600

Biological Sciences Presentations, Friday March 27

1:00 pm

DOES APPLE CIDER VINEGAR HAVE AN EFFECT ON *STREPTOCOCCUS* BACTERIA?
*Clara G. Welch**

1:15 pm

COMPARATIVE CHARACTERIZATION OF ALGAE AND BACTERIAL COMMUNITIES IN RESTORED AND CREATED WETLANDS**
Muzila Nchimunya, Kalina Manoylov, and Samuel Mutiti*

1:30 pm

VALIDATING ENVIRONMENTAL DNA (EDNA) APPROACHES TO ASSESSING SOIL MICROEUKARYOTIC BIODIVERSITY**
Alejandro Coronado, Juliana Hayhome*, Jasmine On*, Rosalyn Stanford*, Kaylee Thomas*, and Tiago Pereira*

1:45 pm

EFFECTS OF HABITAT DISTURBANCE ON DIPLOPOD COMMUNITIES**
Mckenzie B. McIntyre and Bruce A. Snyder*

2:00 pm

A LIFE HISTORY STUDY OF *CHEROKIA GEORGIANA***
McKinley A. Roth and Bruce A. Snyder*

2:15 pm

ASSESSING BISPHENOL A (BPA) IN THE LUNGS, LIVER, MUSCLE, AND DIGESTIVE SYSTEM OF WILD BIRDS: A STUDY TO DETERMINE CONTAMINATION AND EXPOSURE PATHWAYS**
Alyssa G. Simpson, Taerin Jeong*, and Dawn E. W. Drumtra*

2:30 pm

THE GENETIC DIVERSITY OF HOUSE WRENS AND GRAY CATBIRDS
Devin O'Mallon, Jill Penn, Maribel Fernandez, and Mia Malloy*

2:45 pm

ONGOING RESEARCH OF THE GGC BIRD LAB
Mia Malloy, Maria Fernandez, and Jill Penn

Biological Sciences Presentations, Saturday March 28

8:00 am

VISUALIZING THE AVIAN BIG BANG: SYNTENY RESOLVES THE NEOAVIAN CONFLICT
Nahom Estifanoes and Jill Penn*

8:15 am

SURVEILLANCE FOR MOSQUITOES AS POTENTIAL DISEASE VECTORS AT DIVERSE SITES IN NORTHWEST GEORGIA, USA
Isabelle Salitsky and David B. Conn*

8:30 am

INVESTIGATING THE ROLE OF COLOR IN ATTRACTING WILD BEES TO WILDFLOWERS
Widmey M. Osias and Mark A. Schlueter*

8:45 am

THE IMPACT OF WILDFLOWER HABITAT ENRICHMENTS ON BOOSTING THE WILD BEE ABUNDANCE IN AGRICULTURAL AREAS
Khiya M. Kenney and Mark A. Schlueter*

9:00 am

WILDFLOWER PREFERENCE OF SCOLIID WASPS IN THE COSTAL PLAINS OF EASTERN GEORGIA
Madison C. James and Mark A. Schlueter*

9:15 am

ENHANCING BENEFICIAL INSECTS IN AGRICULTURAL FIELDS THROUGH WILDFLOWER HABITATS: A CASE STUDY OF SCOLIID WASPS
Emmanuel Licon and Mark A. Schlueter*

9:30 am

A MULTIDECADAL COMPARISON OF INTERTIDAL AMPHIPOD CRUSTACEAN DIVERSITY AND COMMUNITY STRUCTURE ON SAPELO ISLAND, GEORGIA**
Kali M. Holierhoek and Kristine N. White*

9:45 am

SUBTIDAL CRUSTACEAN DIVERSITY AND DISTRIBUTION ON SAPELO ISLAND, GA
Elise Mirabella and Kristine N. White*

10:00 – 10:30 am Section Business Meeting

Biological Sciences Posters (will be displayed Friday 3:30–5:30 pm)

1. CABBAGE BY NAME, KALE BY CHOICE: FEEDING PREFERENCE IN *TRICHOPLUSIA NI***
Danielle R. Burkman, Margaret Smith, Ryan Shanks, and Erin Barding*
2. OPTIMIZING ELECTROPORATION EFFICIENCY IN *SACCAROMYCES CEREVISIAE* SEC6-49 MUTANT CELLS TO ENABLE A HIGH SENSIVITY GENOMIC SUPPRESSOR SCREEN**
Elizabeth Campher, Rebecca H. DeRoth*, and Ellen C. France*
3. WHAT'S IN THE WEB: ANALYZING TROPHIC INTERACTIONS IN SPIDER WEB ECOSYSTEMS**
*Beraca Cornely**

4. COMPARATIVE STUDY OF ORAL BACTERIAL REDUCTION USING VARIOUS TEETH CLEANING METHODS**
Taylor Crawford and Jennifer Fortunato*
5. INTRASPECIFIC TRAIT VARIATION OF TREMATODES INFECTING TREE SHREWS (*TUPAIA* SPP.) FROM BORNEO**
Kiara Darden and Whitney Presser*
6. EXPLORING NEW PHENOTYPES OF *SAACHROMYCES CEREVISIAE* SEC6-46 MUTANT**
Rebecca DeRoth, Elizabeth Campher*, and Ellen France*
7. EFFECT OF TREE COVER IN SUBURBAN AREAS ON AVIAN DIVERSITY
Maria I. Fernandez, Mia Malloy, and Jill Penn
8. MONITORING THE DISPERSAL OF SPOTTED LANTERNFLIES (*LYCORMA DELICATULA*) IN NORTH GEORGIA, USA USING FUNNEL TRAPS ON *AILANTHUS ALTISSIMA* AT DIFFERENT DISTANCES FROM RAILYARDS
Carissa Goodwin, Natalie Boudreaux*, Heather Powell*, and Jason Lang*
9. IS INTERSPECIFIC COMPETITION A PRIMARY DRIVER OF SEGREGATION BETWEEN LARVAL SALAMANDERS (*DESMOGNATHUS AMPHILEUCUS* AND *PSEUDOTRITON RUBER*) IN APPALACHIAN STREAMS?
Ja'Nia Gray, Alexia Vaca-Nava*, and Carlos D. Camp*
10. UNCOVERING FISH FAUNAL EXCHANGES ACROSS GEORGIA'S WATERSHEDS: THE CURIOUS CASE OF THE BANDFIN SHINER**
Sydney P. Griffith, Sarah M. Holgate*, Lillian R. Brenters*, Michael E. Cagampan*, Michael G. Kelling*, Grace K. Vaughn*, Rachel A. Perez-Udell, and Andrew T. Taylor*
11. A FOUR YEAR STUDY OF THE IMPACT OF WILDFLOWER HABITAT ENRICHMENTS ON BOOSTING THE WILD BEE ABUNDANCE AND BEE DIVERSITY IN AGRICULTURAL AREAS OF COASTAL GEORGIA
Sukaina B. Hussain and Mark A. Schlueter*
12. BPA CONCENTRATION IN WILD BIRDS VS REHABILITATING BIRDS**
Taerin Jeong, Alyssa G. Simpson*, and Dawn E. W. Drumtra*
13. SYNERGISTIC INACTIVATION OF *ESCHERICHIA COLI* AND *SALMONELLA* USING HIGH-PRESSURE PROCESSING COMBINED WITH A TEN-COMPONENT NATURAL ANTIMICROBIAL BLEND
Md Niamul Kabir, Amaya H. Williams, Evelyn L. Redmond*, Tereza M. Thomas*, Lauren E. Foster*, and Shohana Huq*
14. BIOFILM FORMATION BY WILD-TYPE AND PRESSURE-STRESSED *ESCHERICHIA COLI O157:H7* AND *SALMONELLA ENTERICA* SEROVARS ON STAINLESS STEEL IN MILK AT REFRIGERATION AND PHYSIOLOGICAL TEMPERATURES.
Md Niamul Kabir, Kendra Ross, Evelyn L. Redmond*, Laila Dowdy*, and Shohana Huq*
15. EFFECT OF ALTERED SALINITY ON *LYTECHINUS VARIEGATUS* DEVELOPMENT **
Davina Kara, Shane A. Webb, and Margaret Smith*
16. ESTIMATING THE ABUNDANCE OF COMMON BIRD SPECIES USING THE DENSITY OF SONGS PRESENT ON SOUND RECORDINGS**
Myra Kincaid, Michael Parrish, Richard Chandler, and Jeffrey Cymerman*

17. MALE CONTRIBUTIONS TO REINFORCMENT AND SPECIATION IN *DROSOPHILA***
*Savannah L. Limehouse**
18. USING COMMON-GARDEN EXPERIMENTS TO TEST THE EFFECTS OF INFECTION BY THE TREMATODE *METAGONIMOIDES OREGONENSIS* ON LARVAL PLETHODONTID SALAMANDERS (*DESMOGNATHUS AMPHILEUCUS*) IN APPALACHIAN STREAMS
Elijah Marshall and Carlos D. Camp*
19. GC-MS ANALYSIS OF THE HYDROCARBONS PRODUCED BY THE CONVERSION OF ANIMAL FEED BY MICROBIOMES EXTRACTED FROM THE GASTROINTESTINAL TRACK OF PORCINE AND CATTLE**
Barry B. Miburo, Kingsley Dunkley, Joseph Falcone, Hayley K. Newsome, Talon Shierling*, and James Wells**
20. TURNING UP THE HEAT: THERMAL TOLERANCE IN GEORGIA CRAYFISH
Samantha Moore, Elias Aufderheide*, and David Weese*
21. WILDFLOWER ENRICHMENT STRIPS SIGNIFICNTLY INCREASES SCOLIID WASP ABUNDANCE IN THE GEORGIA COASTAL PLAIN
Devani L. Rodriguez-Rangel and Mark A. Schlueter*
22. ASSAY OF BASAL LEVELS OF MALE AGGRESSION AMONG SISTER TAXA *DROSOPHILA RECENS* AND *DROSOPHILA SUBQUINARIA***
*Riley Robinson**
23. EVALUATING THE POTENTIAL SOURCES OF *HELICOBACTER PYLORI* IN SAN JUAN BAY AND RÍO GRANDE DE LOÍZA ESTUARIES OF PUERTO RICO
Alex A. F. Sarran, Kendryl A. Randall*, and Dave Bachoon*
24. AN OVERVIEW OF WILD BEE POLLINATORS PRESENT IN THE AGRICULTURAL AREAS OF GEORGIA
Mark A. Schlueter
25. EARLY LIFE SOCIAL ENVIRONMENTS EFFECTS ON BRAIN MORPHOLOGY**
Emma K. Scroggs
26. A STUDY OF ENVIRONMENTAL CONTAMINATION: EXPANDING BIRD SPECIES REPRESENTATION FOR BISPHENOLA (BPA) TESTING**
Alyssa G. Simpson and Dawn E. W. Drumtra*
27. *WOLBACHIA* INFECTION IN ANTS OF NORTH GEORGIA**
Casey C. Torgesen and Evan C. Lampert*
28. EVALUATING THE EFFECTIVENESS OF CLEANING TECHNIQUES IN HIGH-TRAFFIC AREAS USING BIOCHEMICAL TESTS
Kayla L. Ward and Julia Schmitz*
29. EFFECT OF VIRGIN FEMALES ON MALE COMPETITION UNDER REINFORCEMENT IN THE *DROSOPHILA SUBQUINARIA-RECENS* SPECIES COMPLEX**
*Nicholas R. Yelle**

Section II: Chemistry
Room B – 1660

Chemistry Presentations

8:30 am

ANALYSIS OF THE ASHES OF THE PEELS OF BANANAS GROWN IN BURUNDI, AFRICA
Taylor Stegall and Barry Miburo*

8:45 am

HEAVY METAL ANALYSIS OF SOIL IN LOCAL WATER SOURCE AREAS IN GWINNETT COUNTY USING ICP-MS
*Olivia S. Nava**

9:00 am

ICP-MS ANALYSIS OF HEAVY METALS IN GWINNETT COUNTY WATER**
*Victoria Voltaire**

9:15 am

DATA-DRIVEN ANALYSIS OF CHEMISTRY TERMINOLOGY ACROSS EDUCATIONAL AND SCIENTIFIC SOURCES
David Rogers, and Seungjin Lee*

9:30 am

TESTING A NEW HANGING DROP OSMOMETER**
Landon C Derr, and Jonathan Gunnell Cannon**

9:45 am

ACCESSIBLE CHEMISTRY: INNOVATIONS IN TEACHING FOR THE VISUALLY IMPAIRED
Rajeev Dabke, Samuel Melaku, and Kerri Shelton

10:00 – 10:30 am - Section Business Meeting

Chemistry Posters (will be displayed Friday 3:30–5:30 pm)

1. BUILDING BONDS: INTERLOCKING TOY BUILDING BLOCKS AND ORGANIC CHEMISTRY ARE MORE ALIKE THAN YOU THINK**
Jacob Steenborg, Autumn Markland*, and Kerri Shelton*
2. DETECTION OF NERVE GAS AGENTS USING A RHODAMINE-B BASED SENSOR**
Lauren McClintock, and Washsala Medawala**
3. QUANTIFYING THE PRODUCTS OF ELECTROLYSIS CELL POWERED BY A PHOTOVOLTAIC PANEL
Tiffany Golden, Devon Cushing*, Samuel Melaku, and Rajeev Dabke*
4. QUANTITATIVE ANALYSIS OF MICROPLASTICS IN THE CHATTAHOOCHEE RIVER - ATLANTA'S MOST IMPORTANT DRINKING WATER SOURCE
JasmineL Woods, and Kennedy Reed*

5. COMPARATIVE ANTIBACTERIAL PERFORMAMNCE OF FOUR ACYL-SUBSTITUTED PENICILLIN DERIVATIVES
*Bella Reulbach**
6. SYSTEMATIC ORGANIC SYNTHESIS OF A LIBRARY OF SALEN LIGAND DERIVATIVES
Amara Forringer, and Julia Paredes*
7. DESIGNING AN UNDERGRADUATE FORENSIC CHEMISTRY EXPERIMEMNT ON THE LEVELS OF MORPHINE IN URINE USING THE GC-MS**
*Emma Lazarz**
8. CHARACTERIZING FINE-TUNED 4-AMINOQUINONLINE DERIVATIVES AS NOVEL ANTIVIRAL LIGANS FOR COVID-19**
Michelle Yusupov, Emily Henary, Maged Henary, and Neville Y Forlemu*
9. SYNTHESIS, CHARACTERIZATION AND LUMINESCENCE STUDIES OF TERBIUM (III) COMPLEXES**
*Zewdu Gebeyehu, and Tara Clarkson**
10. FROM LABORATORY SPECTRA TO EXOPLANET SPECTRAL FINGERPRINTS: A STUDENT LEARNING MODULE LINKING ATOMIC EMISSION SPECTROSCOPY AND GAS PHASE FTIR SPECTROSCOPY TO ASTRONOMICAL SPECTRA SIGNATURES**
Brett Whitson, Chantelle Anfusio, and Patrice Bell*

Section III: Earth and Atmospheric Sciences Room B-1650

Earth and Atmospheric Sciences Presentations

8:00 am

IN PROGRESS: A COMPREHENSIVE ANALYSIS OF THE SPATIOTEMPORAL DISTRIBUTION OF LATE PLEISTOCENE FOSSIL-BEARING LOCALITIES IN SOUTHEASTERN NORTH AMERICA USING PAIRED DATA FROM THE NEOTOMA PALEONTOLOGICAL DATABASE AND SUPPLEMENTARY PUBLISHED RESOURCES

*Mary G. Dickens**, David E. Patterson, Alfred J. Mead*

8:15 am

BELTLINE ECOLOGIES: QUANTIFYING ENVIRONMENTAL MOTIFS IN PUBLIC ART ON THE EASTSIDE TRAIL

Sophia Donovan and Ranbir S. Kang*

8:30 am

DIVING INTO THE DATA: RISK FACTORS FOR ROUTINE POOL INSPECTION FAILURES IN 2025

*Andy E. Lewis**

8:45am

VARIATION IN SOIL CARBON CONCENTRATION AMONG FOREST MANAGEMENT TREATMENTS

Rebecca Barringer, Victoria Alden*, Alanis Bernis* Leah Bartleson*, Christine Mutiti*

9:00 am

ASSESSING COMPOST MATURITY THROUGH GERMINATION TESTS AND NUTRIENT ANALYSIS**

Laura Harvey, Allison Rick VandeVoort*

9:15 am

EXTENDED EFFECTS OF LIME AND COMPOST AMENDMENTS ON NUTRIENT RETENTION IN CECIL SOIL**

Brannon T. Polk, Allison Rick VandeVoort*

9:30 am

USING GIS TO ASSESS SOIL CARBON DISTRIBUTION UNDER DIFFERENT FOREST MANAGEMENT REGIMES**

Victoria Alden, Rebecca Barringer*, Christine Mutiti*

9:45 am

MICROPLASTICS MAPPING IN THE CHATTAHOOCHEE RIVER: A COMMUNITY-ENGAGED RESEARCH PROJECT

Annie J. Lin, Ying Gou, Qing Shao, Michelle Huang*

10:00 am – 10:30 am Section Business Meeting**10:30 am**

INTEGRATING GEOPHYSICAL AND REMOTE SENSING APPROACHES TO ASSESS SALTWATER INTRUSION AND VEGETATION SHIFTS ON SAPELO ISLAND**

Megan Martin, Haley Helms*, Samuel Mutiti, Christine Mutiti*

10:45 am

EFFECTS OF HYDROLOGICAL HETEROGENEITY AND MAINTENANCE DRAWDOWNS ON ALGAL DYNAMICS IN A FRESHWATER RESERVOIR SYSTEM (LAKE SINCLAIR, GEORGIA, USA)**

Anya Mukundan, Margaret Blackledge, Michelle Crumley, Hasari Bermudez Soto*, Kalina Manoylov, Christine Mutiti, Samuel Mutiti*

11:00 am

MOSS-BASED TREATMENTS AND BANK TOPSOIL MOISTURE DYNAMICS IN LOW-ORDER STREAMS: FIELD EXPERIMENTS

Ranbir S. Kang, Edward Whitehurst, Jame Greer*, Sean Clark*, Caillou Guzman**

11:15 am

MAPPING THE 200+ KILOMETER ROOSEVELT IMPACT STRUCTURE IN CENTRAL GEORGIA AND EASTERN ALABAMA

R. Scott Harris, Steven J Jaret, Peter H. Schultz, Edward F. Albin

Earth and Atmospheric Sciences Posters (will be displayed Friday 3:30–5:30 pm)

1. RELATIONSHIP BETWEEN VEGETATION STRUCTURE AND SOIL CARBON IN A MANAGED FOREST**

Alanis Bernis, Rebecca Barringer*, Victoria Alden*, Christine Mutiti*

2. EVALUATING GROUNDWATER FILTRATION IN A WETLAND USING DYE TRACERS AND MONITORING WELLS

Waylin M Boyd

3. EFFECTS OF PH ON ALGAL TRANSPORT WITHIN SEDIMENT**
Wiley J. Bundy, Kathrine G. Hitt*, Samuel Mutiti, Kalina Manoylov*
4. RESERVOIR DRAWDOWN IMPACTS ON SEDIMENT RESUSPENSION AND EUTROPHICATION DOWNSTREAM (LAKE SINCLAIR, GEORGIA, USA)**
Michelle Crumley, Haley Helms*, Anya Mukundan, Samuel Mutiti, Christine Mutiti, Kalina Manoylov*
5. DETERMINING MIROPLASTIC CONCENTRATIONS IN A WETLAND ENVIROMENT
Savannah LaFay Ledbetter
6. COMPARING TOTAL AND ACTIVE SOIL ORGANIC CARBON FRACTIONS UNDER DIFFERENT FOREST MANAGEMENT REGIMES**
Daniella Cecli Odhiambo, Alanis Bernis*, Rebecca Barringer*, Victoria Alden*, Leah Bartleson*, Christine Mutiti*
7. A GEOSPATIAL ANALYSIS OF EARLY19TH-CENTURY FOREST COMPOSITION ON THE WEST GEORGIA PIEDMONT**
Kayden D. Villela and Andrew H. Ivester*

**Section IV: Physics, Mathematics, Computer Science and Technology
Room B-1000**

Physics, Math, Computer Science, Engineering, & Technology Presentations,
Friday March 27

10:00 am

ADVANCES IN STRENGTH AND SUSTAINABILITY OF DENTAL CERAMIC RESTORATIONS
Barry Hojjati

10:15 am

UNDERSTANDING THERMAL BEHAVIOR IN A DATA CENTER THROUGH CFD MODELING
Tiange Wang, and Jie Zhang*

10:30 am

COMPUTATIONAL FLUID DYNAMICS ANALYSIS OF JET-INDUCED MIXING IN A CYLINDRICAL TANK
Dawson M. Echols, and Jie Zhang*

10:45 – 11:00 am Break

11:00 am

ASSESSMENT OF INJECTION POINT STRATEGIES FOR ENHANCED PIPELINE MIXING VIA CFD**
Katherine S. Araya-Elizondo, and Jie Zhang*

11:15 am

BRIDGING THEORY, EXPERIMENT, AND SIMULATION: CFD-DRIVEN INSIGHTS INTO THE FREE JETS LABORATORY**
Justin G. Cloutier, and Jie Zhang*

11:30 am

IDENTIFYING SPECTRAL BIOMARKERS OF IBD USING ANALYSIS OF FTIR SPECTROSCOPY

*William J. Brownback**, *Mathes Dayananda*, and *Unil Perera***11:45 am**

IDENTIFYING COLITIS OF TWO MICE MODELS USING ANALYSIS OF FTIR SPECTROSCOPY

*Kara N. Brownback**, *Mathes Dayananda*, and *Unil Perera***12:00 pm – 1:00 pm Break****1:00 pm**

DEVELOPMENT OF A PYTHON-BASED TOOL FOR STREAMLINED IDENTIFICATION OF EXOPLANET CANDIDATES

*Eric Preston** and *David Joffe***1:15 pm**

COMPUTATIONAL MODELING OF AMORPHOUS SILICON NITRIDE AS OPTICAL COATINGS FOR FUTURE GRAVITATIONAL-WAVE DETECTORS**

*Benjamin L. LaBell**, *Kiran Prasai***1:30 pm**MOLECULAR DYNAMICS STUDY OF OPTICAL COATING OF TIO₂-ZRO₂-DOPED GEO₂ FOR GRAVITATIONAL DETECTORS*Siddhi J. Patel** and *Kiran Prasai***1:45 pm**

AMORPHOUS ALUMINA AS ULTRA STABLE GLASS

*Dakota H. Carey** and *Kiran Prasai***2:00 pm – 2:15 pm Break****2:15 pm**

MACHINE-LEARNING ENHANCEMENT OF HIGHWAY PAVEMENT CONDITION INDEX PREDICTION AND LONG-TERM DETERIORATION FORECASTING

*Tahmina Akter**, and *Youngguk Seo***2:30 pm**

ANALYSIS OF OVERHEAD HIGHWAY SIGN STRUCTURES FOR ENHANCED RESILIENCE**

*Jacob Ward**, *Mohammad Jonaidi*, and *Simin Nasseri***2:45 pm**

A STUDY OF TITAN USING THE TOOLS OF EXOPLANET RESEARCH**

*Tiffany M. Ferguson**, and *Martha A. Leake*

Physics, Math, Computer Science, Engineering, & Technology Presentations,
Saturday March 28

8:15 am

A TEMPERATURE DEPENDENT DELAY TIME MODEL FOR A MAXWELL-CATTANEO SYSTEM
Isom H. Herron

8:30 pm

NON-DESTRUCTIVE EVALUATION OF FIRE-DAMAGED CONCRETE USING REBOUND
HAMMER AND ULTRASONIC PULSE VELOCITY TESTING
Mathew Henry, Dale Goff*, and Mohammad Janaidi*

8:45 am

A STUDY TO EVALUATE AI TEXT GENERATORS EXPLAINING COMPLEX MATHEMATICS TO
STUDENTS
Ronald E. Mickens, Bryan A. Briones

9:00 am – 9:15 am Break

9:15 am

PROJECT D.O.R.A.: EXPLORATION ROVERS USING ROS₂ AND SLAM**
Shone Cherian, Zakarya Farhan*, Sairam Tangirala, Tae S. Lee*

9:30 am

ARTIFICIAL MATERIAL BASED MICROWAVE ABSORBER AND ITS PARAMETRIC STUDY
*Arun K. Saha, Kendall D. Akins**

9:45 am

USING TEST 1 GRADES TO PREDICT STUDENT SUCCESS IN FRESHMAN MATH COURSES AT
GEORGIA GWINNETT COLLEGE**
*Joseph Ametepe, Stacy Jones, Jenny Kerven, Marty Gerson, Cindy Robertson, Typhanie Hall,
Rebecca Fiorrillo, Arlenda Murphy*

10:00 am – 10:30 am Section Business Meeting

11:00 am

DESIGN OF A 3-D HELMHOLTZ COIL TO ANNIHILATE GEOMAGNETIC FIELD
Christan King, Lu Kang*

11:15 am

URANUS' CHANGING COLOR: 1993-2025
Richard W. Schmude Jr.

11:30 am

PEDAGOGY IMPROVEMENT PROJECT WITH TECHNOLOGY SUPPORT AND ITS
EVALUATION
Wei Jin, Xin Xu, Evelyn Brannock, Hyesung Park, Tacksoo Im, Tirza Leader

11:45 am

DIRECT DECAY PROCESSES ARE NOT EXPONENTIAL
Ronald E. Mickens, Bryan A. Briones

Physics, Math, Computer Science, Engineering & Technology Posters (will be displayed Friday 3:30–5:30 pm)

1. AI-POWERED IMAGE PROCESSING AND TUMOR DETECTION IN DIGITAL MAMMOGRAPHY
*Christina Washington**, and *Khalil Shujaee*
2. MONTHLY MATH FEASTS
Vincent Harvey, and *Debra Kean*
3. ARTIFICIAL INTELLIGENCE IN CYBERSECURITY
*Gavin Pandha**, and *Umar Khokhar*
4. SATURN'S V-FILTER BRIGHTNESS: A 15-YEAR PROGRESS REPORT
Richard W. Schumude Jr., and *Qasim Ahmed**
5. SUSTAINABLE UTILIZATION OF UNDERUTILIZED QUARRY MATERIALS
*Nathan H. Ward**, *Briley Stilwell**, *Jayhyun Kwon*, *Youngguk Seo*, and *Maziar Moaveni*
6. SURVEY OF TESS CANDIDATE STARS FOR EXOPLANET TRANSIT PHOTOMETRY ANALYSIS
*Haslett F. Canales**, and *David Joffe*
7. TRANSIT DETECTION AND LIGHT CURVE ANALYSIS OF SELECTED TESS TARGETS
*Thi Tran**, and *David Joffe*
8. MEDICAL AI CHATBOT
*Gabriel O. Figueroa**, and *Sairam Tangirala*
9. IMPACT OF UNIT EXAM CORRECTIONS ON END OF COURSE ASSESSMENTS
Amy L. Cook, and *Kimerly Grimes*
10. RESISTOR NETWORKS BASED ON POLYHEDRA WITH A FOCUS ON ANTI-PRISMS**
*Mathew C. Waldron**, *Julie L. Talbot*, and *David Leach*
11. A COMPARATIVE STUDY OF NUMERICAL METHODS IN SOLVING ROOTS OF NONLINEAR EQUATIONS
Jayanti R. Saha, and *Emari Knowles**
12. DESIGN AND IMPLEMENTATION OF HAIRPIN STRUCTURE BASED MICROSTRIP FILTER FOR WIRELESS COMMUNICATION**
*Cera Purdy**, and *Shantanu Chakraborty*
13. A GAME-DEVELOPMENT–BASED TUTORIAL FRAMEWORK FOR SUPPORTING NOVICE PROGRAMMERS
*Claudio Sandrio**, *Ciera Baucham**, *Dylan Long**, *Julissa Valdez-Remos**, *Samuel Keller**, *Wie Jin*, *Xin Xu*, and *Evelyn Brannock*
14. ELECTROMAGNETIC CONTROL AND AI-DRIVEN OPTIMIZATION OF SCAFFOLD-MEDIATED TISSUE REGENERATION**
*Anthony Y. Ikito**, and *Barry Hojjatie*

15. INVESTIGATING THE EFFECTS OF MELTING PARAMETERS AND CERIUM OXIDE MOLARITY ON THE BORATE BASED GLASS STRUCTURE USING RAMAN AND FTIR SPECTROSCOPY

Abram Scott, Colin Pierce*, Emily Manqueros*, and Kisa Ranasinghe*

16. PACKBOT HARDWARE RETROFITTING AND MODERNIZATION WITH ROS 2**

Jan A. Kaltenegger, Oziel Rosas*, Shone Cherian*, Savannah Wangala*, Zakarya Farhan*, Brandon Marroquin*, Tae S. Lee, and Sairam Tangirala*

17. DEVELOPING A LOW-COST PROTOTYPE OF A RADIO TELESCOPE FOR ASTRONOMICAL SIGNAL DETECTION**

Ethin H. Vo, Troy A. Johnson*, Alexendra Huayhua*, Nicolle J. Bermudez*, Anisa Zimic*, Colin Nassif*, Anthony Damian*, Dresun J. Taylor*, Tae S. Lee, and Paul Camp*

Section V: Biomedical Sciences Room B-1100

Biomedical Sciences Presentation Schedule

9:00 am

CHARACTERIZING THE RESPIRATORY EXCHANGE RATIO IN RESPONSE TO INITIATING STANDING AND JOGGING

Jay Roszell and James B. Crabbe*

9:15 am

EXAMINING THE ROLE OF ADENOVIRUS E4 11K PROTEIN ON INTERFERON-BETA EXPRESSION**

Odeya Atar, Lily M. Cox*, and Kasey A. Karen*

9:30 am

CHARACTERIZING LOCALIZATION OF ADENOVIRUS PROTEIN E4 11K AND THE CELLULAR DOUBLE-STRAND BREAK MODULATOR DNA-PK

Kindle Reeves, Dale Fulcher*, and Kasey A. Karen*

9:45 am

ADENOVIRUS PROTEIN E4 11K AND THE INNATE IMMUNE RIG-I PATHWAY**

Ansley Whitfield, Lizeth Luquin*, and Kasey A. Karen*

10:00 – 10:30 a.m. Section Business Meeting

Biomedical Sciences Posters (will be displayed Friday 3:30–5:30 pm)

1. DEFINING THE STRUCTURE AND REGULATORY POTENTIAL OF THE CIRBP 5'UTR TO UNDERSTAND ITS STRESS RESPONSE ROLE**

Sara Conner, Matthew Kirchner, and Arnab Sengupta*

2. EXAMINING THE ROLE OF ADENOVIRUS E4 11K PROTEIN ON IFN-BETA EXPRESSION

Lily M. Cox, Odeya Atar*, and Kasey A. Karen*

3. HOW LACTOSE INTOLERANCE AFFECTS GUT MICROBIOME COMPOSITION

Emma L. Hodges and Andrea L. Kwiatkowski*

4. THE CYTOTOXIC EFFECT OF INSERTED BACTERIOPHAGE GENES ON *MYCOBACTERIUM SMEGMATIS*
*Logan G. Knotts**, *Kale T. Banks**, and *Alison Kanak*
5. IMMUNOFLUORESCENCE MICROSCOPY OF *DROSOPHILA* LARVAE IN THE NEUROMUSCULAR JUNCTION AND SEGMENTAL MUSCLES **
Yue Qian, *Selma Music**, and *Brody R. Jenrette**
6. SPORT-SPECIFIC AND LIMB-DOMINANT DIFFERENCES IN BONE DENSITY AND LEAN MASS IN COLLEGIATE SOFTBALL AND BASKETBALL ATHLETES
*Jay Roszell**, *Peyton Miller**, *Brent Morris*, *Josh Whudyga*, and *Brandon Doan*
7. EFFECTS OF AN EIGHT-WEEK AI-GENERATED RESISTANCE TRAINING PROGRAM ON BLOOD GLUCOSE REGULATION: A CASE STUDY
Lauren R. Tapp and *Melody Halteman**
8. EFFECTS OF AN EIGHT-WEEK AI-GENERATED RESISTANCE TRAINING PROGRAM ON ANXIETY AND PHYSICAL FITNESS: A CASE STUDY
Lauren R. Tapp and *Svenja Hoppe**
9. TRANSLATIONAL CONTROL OF PRO-APOPTOTIC PUMA VIA MRNA 5' END REGULATORY ELEMENTS
*Brian Wirth**, *Nathan Choi**, and *Arnab Sengupta*

Section VI: Philosophy and History of Science Room B-1950

Philosophy and History of Science Presentation Schedule

9:15 am

PARTICIPANT SET-UP & PROJECTOR CHECK

9:30 am

WELCOME & INTRODUCTIONS

9:45 am

W. PETER HAMBRIGHT: FROM CHICAGO TO HOWARD UNIVERSITY CHEMISTRY

Albert N. Thompson, Jr.

10:00 am

SIGNIFICANCE OF "SIX-DIRECTIONS/SIDES" IN STEM AND ART: A HISTORICAL PERSPECTIVE**

Bahram Hojjatie

10:15 am

AFRICAN AMERICAN WOMEN IN CHEMISTRY: SPELMAN COLLEGE AS A NATIONAL MODEL FOR BACCALAUREATE DEGREE PRODUCTION

Albert N. Thompson, Jr.

10:00 – 10:30 am – Section Business Meeting

**Section VII: Science Education
Room B-1500**

Science Education Presentation Schedule

7:45 am

PARTICIPANT SET-UP & PROJECTOR CHECK

7:55 am

WELCOME & INTRODUCTIONS

8:00 am

MAPPING REGIONAL AND TEMPORAL SHIFTS IN SCIENTIFIC TERMINOLOGY WITH PYTHON AND SENTENCE TRANSFORMERS

Daniel Babalola and Seungjin Lee*

8:15 am

VIRTUAL LEARNING LABS: ENHANCING STUDENT ENGAGEMENT AND EXPERIENTIAL LEARNING**

Grace Blomberg, Damian J. Martinez Gonzalez*, Kaylee Clark*, Vanessa Slinger Friedman, Alice Gooding, and AJ Okrutny**

8:30 am

THE ETHANOL + ACETIC ACID LAB

*Richard W. Schmude Jr. and Niya N. Thompson**

8:45 am

BREAKING BARRIERS: INVESTIGATING GENDER DYNAMICS IN INTRODUCTORY PHYSICS LAB CLASSES

Shantanu Chakraborty, Bilas Paul, and Ganga Sharma

9:00 am

KILLING THE INNOVATIVE SPIRIT: THE DIRE CONSEQUENCES OF TEACHING PSEUDOSCIENCE, AND HOW TO COMBAT THEM

William A. Said

9:15 am

FACTORS INFLUENCING STRONG INTEREST IN THEORETICAL AND COMPUTATIONAL PHYSICS AMONG UNDERGRADUATE

Dina Zohrabi Alae, Nikki Noughani, Keegan Sh. Tonry, Benjamin M. Zwickl

9:30 am

INTEGRATING MINI-LEARNING COMMUNITIES INTO STEM GENERAL EDUCATION COURSES

Martin L. Gerson, Kathy Garrison, Kristie L. Walsdorf, Cindy M. Robertson, Veronica C. Sublett Breeden, David S. Kerven, and Stacy Jones

9:45 am

EXPERIENTIAL LEARNING IN GENERAL CHEMISTRY COURSES**

Linda de la Garza Benavides

10:00 – 10:30 am – Section Business Meeting

11:00 am

MASTER COURSE TEMPLATE IMPLEMENTATION EFFECT OF DFW RATES AND STUDENT SUCCESS IN ONLINE INTRODUCTORY ASTRONOMY **

Ulrike G. Lahaise and Martha Fulk

11:15 am

CULTIVATING SCIENTISTS: THE ROLE OF A GATEKEEPER ON STEM TRAINING IN GEORGIA

Shari Earnest Watkins and Melvin Webb

Science Education Presentation Schedule Posters (will be displayed Friday 3:30–5:30 pm)

1. BRIDGING THE GAP: CREATION AND IMPACT OF THE BIO-BRIDGE PROGRAM ON GCC BIOLOGY STUDENTS **
Adrienne Cottrell-Yongye, Rashad Simmons, and Jennifer Hurst-Kennedy
2. BUILDING STEM CONFIDENCE THROUGH EXTRACURRICULAR INSTRUMENT TRAINING: A UV-VIS SPECTROSCOPY CASE STUDY
Amber Burns, Selena Tomson*, Theodore Williams*, and Vivian Mativo*
3. INTRODUCING REMEDIATION ASSIGNMENTS INTO STEM COURSES TO IMPROVE STUDENT RETENTION AND SUCCESS
Arlenda P. Murphy, Kathy V. Garrison, MaryGeorge L. Whitney, Becky L. Fiorillo, Laurie Shepard, Cindy M. Robertson, Joseph D. Ametepe, Stacy Jones, Martin L. Gerson, Jenny Kerven, and Charles Pibel
4. STUDENT PERCEPTIONS OF ORAL PRESENTATIONS AS A TOOL FOR LEARNING AND PROFESSIONAL DEVELOPMENT IN ANATOMY AND PHYSIOLOGY
Caroline Hanson and Karen Perell-Gerson
5. INTEGRATING A.I. INTO INTRODUCTORY PHYSICS LAB COURSES
Dereth J. Drake-Scheuermann, and Tiffany L. Harris
6. GENERATION OF MORSE POTENTIALS USING WEBMO
Ian H. Krouse
7. IMPLEMENTING A SMALL-TEAM RUBRIC-BASED MODEL FOR RELIABLE ASSESSMENT OF CRITICAL THINKING AND INTEGRATIVE LEARNING
Karen L. Perell-Gerson, Thomas Lilly, Sherly Abraham, Holly Clark, Jamie Caudill, Jillian Collier, Jason Delaney, Semire Dikli, David Dorrell, Eric Gresch, John Marinan, Patrice Morris, Benjamin O'Dell, Qing Shao, Jennell Talley, and Kinga Varga-Dobai
8. EMPOWERING EXPERIENTIAL LEARNING: THE EXACT SCHOLARS PROGRAM AND ITS IMPACT ON CRITICAL THINKING AND CAREER READINESS
Karen L. Perell-Gerson, Thomas Lilly, Brianna Wilson, Rebecca Cooper, and Kristie Walsdorf*
9. BUILDING STEM CONFIDENCE THROUGH EXTRACURRICULAR INSTRUMENT TRAINING: A PH ELECTRODE CASE STUDY
Mariam Bello, Lyra Hameed*, Ndeye Sarr*, and Janna Blum*
10. BUILDING STEM CONFIDENCE THROUGH EXTRACURRICULAR INSTRUMENT TRAINING: A BIOLOGY CASE STUDY
Sade Henry, John Powell*, Sage Walker*, and V. R. Falkenberg*

**Section VIII: Anthropology
Room B-1900**

Anthropology Presentations

7:45 am

ENVIRONMENTAL SUSTAINABILITY IN JAPANESE UNIVERSITY SETTINGS: AN ETHNOGRAPHIC COMPARISON WITH THE U.S.

*Allyson M. Fowler**

8:00 am

COMPARING THE FIRST MAXILLARY MOLAR CROWN SHAPE OF NEOLITHIC BURIALS FROM BELGIUM AND THE CZECH REPUBLIC USING ELLIPTICAL FOURIER ANALYSIS*

Lindsay Lyle and Frank L'Engle Williams*

8:15 am

YEÍSMO: STILL A CHANGE IN PROGRESS?

Roger Friedman and Alfonso A. Landaverde*

8:30 am

GEOPHYSICAL SURVEY OF THE LEAKE SITE IN BARTOW COUNTY, GEORGIA, PRELIMINARY RESULTS**

*Bryan A. Moss***

8:45 am

QUANTIFIABLE ANALYSIS OF USE-WEAR EVIDENCE OF THE LITHIC ASSEMBLAGE OF A MULTI-COMPONENT SITE IN BARTOW COUNTY, GEORGIA**

*Dane Roberts***

9:00 am

MACHINE LEARNING TECHNIQUES TO LOCATE MIA WORLD WAR II AVIATORS**

Christopher L. Haswell and Colin Colburn*

9:15 am

INTEROBSERVER SCORING OF MAXILLARY MOLAR TRAITS IN HOMO SAPIENS, PARANTHROPUS ROBUSTUS AND THE GREAT APES USING THE READJUSTED ARIZONA STATE UNIVERSITY DENTAL ANTHROPOLOGY SYSTEM*

Frank L'Engle Williams, Lindsay Lyle, Asima Momin*, Tewodros Admass* and Li-Hsiang Lin*

9:30 am

ASHES TO WAXES, RUST TO TRUST

M. Jared Wood

9:45 am

WHAT LIES BENEATH: EVIDENCE FOR BURIED PRECLASSIC HOUSES AND TEMPLES AT THE ANCIENT MAYA CITY OF PACBITUN, BELIZE

Terry G. Powis

10:00 – 10:30 am Section Business Meeting

Section IX: Psychological Science

Room B-1200

Psychological Science Presentation Schedule

8:15 am

PARTICIPANT SET-UP & PROJECTOR CHECK

8:30 am

WELCOME & INTRODUCTIONS

8:45 am

ESSENTIALIST BELIEFS, READER IDENTITY, AND READING OUTCOMES IN THE FIRST YEAR OF COLLEGE

Maci DeMott, Yian Xu, and Ordene Edwards*

9:00 am

INTERSECTIONAL MICROAGGRESSIONS AND CYNICAL ATTITUDES AMONG COLLEGE STUDENTS

Treasure Evans and Yian Xu*

9:15 am

AI COMPANIONS AND ITS PSYCHOLOGICAL IMPLICATIONS**

Ayana Roberts, Vanessa Bailey, Kat Orellana, Chian Dorsey* and Netsanet Zerubabel*

9:30 am

THE RELATIONSHIP BETWEEN ADVERSE CHILDHOOD EXPERIENCES, REJECTION SENSITIVITY, AND NEURODIVERGENCE

Anijah R. Hill and Michael Bar-Johnson*

9:45 am

EXAMINING POINT OF VIEW IN PERSONAL MEMORIES

Nicole Harsch

10:00 – 10:30 am Section Business Meeting

Psychological Science Posters (will be displayed Friday 3:30–5:30 pm)

1. INVESTIGATING THE RELIABILITY AND VALIDITY OF THE MINDFLEX**
Powell Brenters, Nicole Chuong*, Brooke Greenwald*, John A. Dewey, Wei-Lun Sun*
2. HIGH LENS DENSITY AND IRIS PIGMENTATION ARE RELATED TO INDIVIDUAL DIFFERENCES IN GLARE DISCOMFORT
Elienne Choquart, Cameron J. Wysocky*, Lisa M. Renzi-Hammond*, Billy R. Hammond*, and Jacob B. Harth*
3. A NOVEL METHOD FOR QUANTIFYING MOTION DETECTION IN THE PRESENCE OF GLARE
Audrey Levy, Cameron J. Wysocky*, Billy R. Hammond Jr.*, and Jacob B. Harth*
4. RETRIEVAL DIFFICULTY AND THE TESTING EFFECT
Bennett R. Levine, J. Imani Bunn, He (Hans) Zhang, Phuong (Fiona) Tran, and Joseph R. Manns

5. DEPTH AND VISUAL DISCERNMENT OF DRONES BASED ON DIFFERING COLOR PATTERNS
Jacob Welch
6. ADAPTIVE BEHAVIOR AND PARENTAL STRESS AS PREDICTORS OF PARENT PERCEPTIONS OF LANGUAGE DEVELOPMENT IN TODDLERS WITH DEVELOPMENTAL DISABILITIES**
Destiny N. Epps, Rose A. Sevcik, MaryAnn Romski*
7. THE EFFECTS OF AN INTERACTIVE STORYBOOK ON READING OUTCOMES WITH STRUGGLING YOUNG ADULT READERS
*Samantha McCool**
8. GENDER DIFFERENCES IN FIRST PERSON GAMERS**
Detinee Fox, Charles R. Taylor, and Jacob Murray*
9. INTERACTIONS OF PEOPLE AND THEIR PETS**
Amanda L. Hopper and Charles R. Taylor*
10. DIVERSITY IN DIAGNOSIS: A COMPARATIVE RELATIONSHIP BETWEEN THE SOCIAL BEHAVIORAL EFFECTS AND TIMING OF ADHD DIAGNOSIS IN AFRICAN AMERICAN ADULTS
K'hiari Z. Hailey, Justin Dainer-Best, and Cassandra L. Baldwin*
11. DURATION JUDGMENT DISRUPTION WITH MINIMAL COGNITIVE LOAD
Adam T. Hutcheson

History and Description of the Georgia Academy of Science

Organized in 1922 and incorporated as a nonprofit organization in 1953, the Georgia Academy of Science continues to grow in size and academic strength. The interests of Academy members encompass all aspects of science and that interest is expressed through participation in one or more of nine sections: I Biological Sciences, II Chemistry, III Earth & Atmospheric Sciences, IV Physics, Math, Computer Science, Engineering & Technology, V Biomedical Sciences, VI Philosophy & History of Science, VII Science Education, VIII Anthropology, and IX Psychological Science. The Academy is dedicated to the promotion of science education and the fostering of scientific research in the state of Georgia. To that end we publish the Georgia Journal of Science and hold annual scientific meetings that emphasize the presentation of undergraduate and graduate research. Further information about the Academy can be found at <https://www.georgiaacademyofscience.org/>.

A membership can be obtained by going to the following webpage <https://www.georgiaacademyofscience.org/membership-1>.