

Schedule of Events

Conference Check-In and Registration: 7:30 am—11:30 am
Student Union Atrium

Oral Presentation, Morning Session: 9 am—11:20 am
Student Union, E156, E157, E163
COLA Dean's Colloquium, E156B

Poster Presentations and Lunch: 11:40 am—1:30 pm
Apollo Room, Student Union

Oral Presentations, Afternoon Session: 1:45—3:45pm
Student Union, E156 A

Session 1: E156A
COLA Dean's Colloquium

Session Chair: Linda Caron

<i>Student</i>	<i>Faculty Mentor</i>	<i>Department</i>
9	Crystal Whetstone December Green	Political Science
	<i>Title: Is the Motherist Approach More Helpful in Obtaining Women (s Rights than a Feminist Approach? A Comparative Study of Lebanon and</i>	
9:20	Ambreen Hasan and Langdon Sand- Myron Levine	Urban Affairs and Ge- ography
	<i>Title: Three Times a Week: Mapping the Transportation of Dialysis Pa- tients in Dayton, Ohio</i>	
9:40	<i>Title:</i>	
10	<i>Title:</i>	
10:20	<i>Title:</i>	
10:40	<i>Title:</i>	

Session 2: E156B

Session Chair:

	<i>Student</i>	<i>Faculty Mentor</i>	<i>Department</i>
9	Jody Hayes	Romena Holbert	Teacher Education
	<i>Title: Career Identity Development: How Teacher Candidates Develop Core Structures</i>		
9:20	Christen Johnson	Romena Holbert	Teacher Education
	<i>Title: Student Leadership Identity Development: Narratives from Women as Leaders</i>		
9:40	Ellen Gilbert	Tracey Kramer	Teacher Education
	<i>Title: Creating Guidelines to Encourage Sustained Silent Reading</i>		
10	Daniel Long	Richele O'Connor	Teacher Education
	<i>Title: GO - Graphic Organizers in Education</i>		
10:20	Jessica Herrmann	Richele O'Connor	Teacher Education
	<i>Title: Going Digital: Learning to Write by Reading Digital Mentor Texts</i>		
10:40	Kelsey Cordonnier	Nimisha Patel	Teacher Education
	<i>Title: Effective Grouping in Middle Level Classrooms</i>		
11:00	Kyle Bayes	KT. Arasu	Mathematics and Statistics
	<i>Title: Nonexistence of Two Circulant Weighing Matrices of Weight 81</i>		

Session 3: E156C

Session Chair:

<i>Student</i>	<i>Faculty Mentors</i>	<i>Department</i>
Thomas Knickerbocker 9 <i>Title: Entre las líneas: Meditaciones y Reflexiones</i>	Damaris Serrano	Modern Languages
Brenda Jones 9:20 <i>Title: El Amuleto de Pelo</i>	Damaris Serrano	Modern Languages
Larissa Swartz 9:40 <i>Title: Pobre la María - A look at poverty and inequality in Latin America</i>	Damaris Serrano	Modern Languages
Kaitlyn Williams 10 <i>Title: El poder mágico del español: Una perspectiva mundial</i>	Damaris Serrano	Modern Languages
Joy Hyatt 10:20 <i>Title: Digital Curation and Information Management: Technological Changes in Art History</i>	Karla Huebner	Art and Art History
Megan Hague, Kyle Wilkinson 10:40 <i>Title: Emmet Gowin: A Documentary Short</i>	Tracy Longley-Cook	Art and Art History
Rebecca Cantrell 11:00 <i>Title: Are Zero-Tolerance Policies Enough? A synthetic meta-analysis of bully prevention programs</i>	Karen Lahm	Sociology and Anthropology

Session 4: E163A

Session Chair:

<i>Student</i>	<i>Faculty/Research Men- tor</i>	<i>Department</i>
9 Trisha Brockman	Katherine Excoffon	Biological Sciences
<i>Title: Src-family kinases alter the apical expression of the coxsackie and adenovirus receptor in polarized epithelial cells</i>		
9:20 Poornina Kotha Lakshmi Narayan	Katherine Excoffon	Biological Sciences
<i>Title: Interleukin-8 regulates the expression of the eight-exon isoform of the Cxsackievirus and adenovirus receptor in airway epithelial cells.</i>		
9:40 James Readler	Katherine Excoffon	Biological Sciences
<i>Title: Peptide Mediated Regulation of Adenoviral Infection</i>		
10 Ran Yan	Katherine Excoffon	Biological Sciences
<i>Title: Mechanism of MAGI-1-mediated degradation of the eight-exon encoded coxsackievirus and adenovirus receptor isoform (CAREx8)</i>		
10:20 Joseph Santin	Lynn Hartzler	Biological Sciences
<i>Title: Temperature influences CO₂/pH-sensitivity in locus coeruleus neurons of the bullfrog, <i>Lithobates catesbeianus</i></i>		
10:40 Amanda Sherwood	Lynn Hartzler	Biological Sciences
<i>Title: Stroke to Breath Ratio Impacts Swimming Performance</i>		
11:00 Natalie Orndorf	Lynn Hartzler	Biological Sciences
<i>Title: Serving Size Contributes to Obesity</i>		

Session 5: E163B

Session Chair:

	<i>Student</i>	<i>Faculty Mentor</i>	<i>Department</i>
	Erin Best	Jason Deibel	Physics
9	<i>Title: Flexible Terahertz Metamaterials for Frequency Selective Surfaces</i>		
	Ryan Shaver	Jason Deibel	Physics
9:20	<i>Title: Ceramic Protecting Coating Analysis Using Terahertz Imaging</i>		
	Alyssa Fosnight	Ivan Medvedev	Physics
9:40	<i>Title: Flexible Terahertz Metamaterials for Frequency Selective Surfaces</i>		
	Laura Bailey	David Dolson	Chemistry
10	<i>Title: Kinetics of Collisional E-V Energy Transfer from Cl* to CO2</i>		
	Ryan Selhorst	Eric Fossom	Chemistry
10:20	<i>Title: Introducing Chemical Diversity to Poly(Arylene ether)s via N-Phenyl-3,5-Difluorobenzene Sulfonamides</i>		
	Deepthi Nalluri	Chad Hammerschmidt	Earth & Environmental Science
10:40	<i>Title: The Speciation of Shark and Mercury in Commercially Prepared Shark Fin Soup</i>		
	Pamela Cullen	Thomas Wischgoll	Engineering
11:00	<i>Title: Testing for Suitability of Display Devices in a Virtual Environment</i>		

Session 6: E157

Session Chair:

	<i>Student</i>	<i>Faculty Mentor</i>	<i>Department</i>
9	Isiah Kendall and Anthony Vicini	Tarun Goswami	Biomedical, Industrial and Human Factors Engineering (BIE)
	<i>Title: Evaluation of Forces in Helmet Collision and Concussion Risk</i>		
9:20	Brenna Gi-acherio	Nasser Kashou	BIE
	<i>Title: Functional Near-Infrared Spectroscopy (fNIRS) for Visual Cortical Testing</i>		
9:40	Irfaan Dar	Nasser Kashou	BIE
	<i>Title: Near Infrared Spectroscopy for Functional Study of Brain Activity in Infants</i>		
10	Kevin Hatcher	Nasser Kashou	BIE
	<i>Title: DTI for Quantification and Analysis in Neuroimaging Data</i>		
10:20	Ali Kadhim	Nasser Kashou	BIE
	<i>Title: Concepts for Designing and Engineering Left Ventricular Assis-</i>		
10:40	Murad Althobaiti	Nasser Kashou	BIE
	<i>Title: Near Infrared Photon Propagation in Human Brain Based on Magnetic Resonance Imaging</i>		
11:00	Haielom Milash		BIE
	<i>Students drinking coffee and level of studying</i>		

Session 8: E157

Session Chair:

	<i>Student</i>	<i>Faculty Mentor</i>	<i>Department</i>
1:45	Remah Ali	Steven Berberich	Biochemistry and Molecular Biology
	<i>Title: Down Regulation of YPEL3 in MCF-7 Breast Cancer Cell Line Involves Histone Deacetylation</i>		
2:05	Genesis Hines	Heather Hostetler	Biochemistry and Molecular Biology
	<i>Title: Fatty Acids and their Thioester Derivatives as Potential Endogenous Ligands of LXRA</i>		
2:25	Natasha Hill	Madhavi Kadakia	Biochemistry and Molecular Biology
	<i>Title: Differential dose effects of 1α25-dihydroxyvitamin D3 on keratinocyte proliferation and ΔNp63α stabilization</i>		
2:45	Brooke Johnson	Courtney Sulentic	Pharmacology and Toxicology
	<i>Title: TCDD Alters IgM and IgG Secretion in a Human B Cell Line</i>		
3:05	Orly Leiva	Mariana Morris	Pharmacology and Toxicology
	<i>Title: The Characterization of Prolyl Carboxypeptidase In Renal Pathologies</i>		

Session 9: E156B

Session Chair:

<i>Student</i>	<i>Faculty Mentor</i>	<i>Department</i>
1:45 Hamza Abdel-Latif	KT. Arasu	Mathematics and Statistics
<i>Title: Updating Arasu-Gutman table on circulant weighing matrices</i>		
2:05 Heather Smith	KT. Arasu	Mathematics and Statistics
<i>Title: A Survey of Hadamard Matrices</i>		
2:25 Venkateswaran Hariharan	KT. Arasu	Mathematics and Statistics
<i>Title: The Constructions of Almost Binary Sequence Pairs</i>		
2:45 Amanda Roddy	KT. Arasu	Mathematics and Statistics
<i>Title: Teachers' Beliefs of Calculators in the Classroom</i>		
3:05 Kiran Kumar Vaidyanathan	KT. Arasu	Mathematics and Statistics
<i>Title: Signal-To-Noise Ratio (SNR) Enhancement Using Digital Watermarking</i>		

Accountancy

Daniel Shafer

Title: **Federal Financial Whistleblower Acts**

Undergraduate student in Accountancy

Mentor: Kevin Brown, *Accountancy*

AFRL

Monica Leslie

Title: **Discovery Lab**

Undergraduate student in Biomedical Engineering

Mentor: Robert Williams, *AFRL Research Director*

Biochemistry and Molecular Biology (BMB)

Khadijeh Alnajjar

Title: **THE ROLE OF THE N-TERMINUS OF SUBUNIT III IN PROTON UPTAKE IN CYTOCHROME C OXIDASE OF RHODOBACTER SPHAEROIDES**

Graduate student in Biological Sciences

Mentor: Lawrence Prochaska, *BMB*

Joanna Barthelemy

Title: **Altered Replication in Human Cells Promotes DMPK (CTG)_n · (CAG)_n Repeat Instability**

Graduate student in Undecided

Mentor: Michael Leffak, *BMB*

Natasha Hill

Title: **Differential dose effects of 1 α 25-dihydroxyvitamin D3 on keratinocyte proliferation and Δ Np63 α stabilization**

Graduate student in Undecided

Mentor: Madhavi Kadakia, *BMB*

Andrea Smith

Title: **Gel shift analysis of conditions influencing regulation of the human SREBP-1c gene by nuclear receptor proteins**

Undergraduate student in Biological Sciences

Mentor: Heather Hostetler, *BMB*

Biological Science

Jonathan Ali

Title: **Effects of soil biota and rhizosphere extract from non-native *Lonicera maackii* on the native *Impatiens capensis*.**

Undergraduate student in Biological Sciences

Mentor: Don Cipollini, *Biological Science*

Elizabeth Coe

Title: **Host-parasite associations in avian malaria: a model of coevolution**

Undergraduate student in Biological Sciences

Mentor: Jeffrey Peters, *Biological Sciences*

Uohna Foster

Title: **Identification of Central CO₂/pH Chemosensory Regions Involved in Respiratory Control in Poikilothermic Vertebrates**

Graduate student in Biological Sciences Education

Mentor: Lynn Hartzler *Biological Sciences*

Accountancy

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Graduate student in Biological Sciences Education

Mentor: Lynn Hartzler *Biological Sciences*

Emily King

Title: ***Co-evolution of Mitochondrial and Nuclear Genomes in Caenorhabditis***

Graduate student in Biological Sciences

Mentor: Scott E. Baird, *Biological Sciences*

Sterling Martin

Title: ***The Coxsackievirus and adenovirus receptor interacts with PDZ3 of the cellular scaffolding protein MAGI-1***

Graduate student in Biological Sciences

Mentor: Katherine Excoffon, *Biological Sciences*

Durval Rodrigues Castelo Branco Neto

Title: ***Site-directed mutagenesis: changing an amino acid in the JamL gene sequence***

Undergraduate student in Biological Sciences

Mentor: Katherine Excoffon, *Biological Sciences*

Sara Seibert

Title: ***Assortative Fertilization in the Elegans-Group of Caenorhabditis***

Graduate student in Biological Sciences

Mentor: Scott E. Baird, *Biological Sciences*

Leah Shurte

Title: ***Genetic Diversity and Differentiation in Egyptian Geese of Southern Africa***

Undergraduate student in Biological Sciences

Mentor: Jeffrey Peters, *Biological Sciences*

Kayla Watters

Title: ***Hypercapnic Acidosis Influences Action Potential Properties in Chemosensitive Locus Coeruleus Neurons in Bullfrogs (Lithobates catesbeianus)***

Undergraduate student in Biological Sciences

Mentor: Lynn Hartzler, *Biological Sciences*

Biomedical, Industrial and Human Factors Engineering

Robert Myers

Title: ***Advanced Care Practitioner Staffing at Trauma Centers: A Simulation-Optimization Approach***

Graduate student in Industrial and Systems Engineering

Mentor: Pratik J. Parikh, *CECS/BIE*

Chemistry

Mary Abraham

Title: ***Dual-stimuli Responsive Poly(ethyleneimine)s with a Tunable LCST for Gene Delivery***

Graduate student in Chemistry

Mentor: Eric Fossum, *Chemistry*

Trevor Bobka

Title: ***Optimizing silver nanoparticle size and excitation wavelength for single-molecule SERRS-based detection***

Undergraduate student in Chemistry

Mentor: Ioana Pavel Sizemore, *Chemistry*

Fadwa Constandinidis

Title: ***Effect of Fluorine Position on***

the Electrophilic Halogenation of Difluorodiphenyl sulfone Isomers

Graduate student in Chemistry
Mentor: Eric Fossum, *Chemistry*

Huong Hoang

Title: ***Hydroquinone-based poly(arylene ether)s with pendant benzothiazole and 3-sulfonated phenyl sulfonate groups***

Graduate student in Chemistry
Mentor: Eric Fossum, *Chemistry*

Michael Krol

Title: ***Synthesis of N-Methyl-N-Alkylpiperidinium***

Graduate student in Chemistry
Mentor: William Feld, *Chemistry*

Jeremy Lear

Title: ***Main Chain Alkoxy/Hydroxy Substituted PPV***

Graduate student in Chemistry
Mentor: William Feld, *Department of Chemistry*

Candra McDonald

Title: ***Quantifying the accumulation of silver nanoparticles in freshwater crayfish tissue by ICP-OES***

Graduate student in Undecided
Mentor: Ioana Sizemore, *Chemistry*

Ryan Oostendorp

Title: ***Bis(alkoxyphenyl) cyclopentadienones***

Graduate student in Chemistry
Mentor: William Feld, *Chemistry*

Triet Truong

Title: ***Monitoring the Health of Glen Helen Nature Preserve: Fall 2012 Sediment and Water***

Graduate student in Chemistry
Mentor: Audrey McGowin, *Chemistry*

Triet Truong

Title: ***Establishing a global DNA barcode for Ozobranchus spp. in the Atlantic and Pacific Oceans***

Graduate student in Chemistry
Mentor: Audrey McGowin, *Chemistry*

Kristy Wickman

Title: ***Novel Oxyalkylene Polyimides***

Graduate student in Chemistry
Mentor: William Feld, *Chemistry*

College of Nursing & Health

Krista Sheehan

Title: ***The Effects of Distraction by a Child Life Specialist on Pediatric Pain and Distress During Voiding Cystourethrogram***

Undergraduate student in Nursing
Mentor: Donna Miles Curry, *College of Nursing & Health*

Karen Herzing

Title: ***Integration of Premature Infants into Family Life***

Undergraduate student in Nursing
Mentor: Rosalie Mainous, *College of Nursing and Health*

Pratibha Nigam

Title: ***Development of an educational tool for low risk pregnant women attending Centering***

Undergraduate student in Nursing
Mentor: Eustace, *College of Nursing and Health*

Janos Roper

Title: ***Compassion Fatigue-A Global***

Concern (When Caring Hurts)

Undergraduate student in Nursing
Mentor: Ann Bowling, *College of Nursing and Health*

Community Health

Athena Fannin
Title: ***Filling the gaps in general emergency shelters: Flow processes for functional needs service triage.***
Graduate student in Pre-Med/Pre-professional health
Mentor: Sylvia Ellison, *Community Health*

Earth & Environmental Science

Robin Richardson-Coy
Title: ***Diatom Identification Handbook for the Glen Helen Nature Preserve, Yellow Springs, Ohio***
Undergraduate student in Earth and Environmental Science
Mentor: Rebecca Teed, *Earth & Environmental Science*

Paul Fleischman
Title: ***Phosphate Speciation of the Little Miami River***
Undergraduate student in Earth and Environmental Science
Mentor: Songlin Cheng, *Earth & Environmental Sciences*

Elizabeth Freeman
Title: ***Crystal Lake Sediment Core: Loss on Ignition***
Undergraduate student in Earth and Environmental Science
Mentor: Rebecca Teed, *Earth and Environmental Sciences*

Katelyn Runyon
Title: ***A Safer Alternative Method For Chemically Breaking Down Vertebrate Fossil Bearing Carbonates***
Undergraduate student in Earth and Environmental Science
Mentor: Chuck Ciampaglio, *Earth & Environmental Sciences – Lake Campus*

Michael Taylor
Title: ***Project Title: Exhumation, Preparation and Analysis of the Dentition and Oral Cavity of the Late Devonian Chondrichthyan Cladoselache***
Undergraduate student in Liberal Studies
Mentor: Charles Ciampaglio, *Earth & Environmental Sciences – Lake Campus*

Electrical Engineering

Kandarp Patel
Title: ***Analysis of Human Echolocation Waveforms for Radar Target Recognition***
Graduate student in Electrical Engineering
Mentor: Arnab Shaw, *Electrical Engineering*

Engineering

Jacob Brewer
Title: ***The effects of psychological stress on learning and performance during a surgical skills training task***
Graduate student in Psychology
Mentor: Caroline Cao, *Engineering*

Neuroscience, Cell Biology and

Physiology (NCBP)

Renee Albers

Title: ***Prolonged Expression of Hypoxia-Inducible Factor 1 alpha (HIF-1a) Leads to Placental Abnormalities***

Graduate student in Biological Sciences

Mentor: Thomas L. Brown, *NCBP*

Savannah Doliboa

Title: ***Lineage-Specific, Gene Targeting of the Trophoblast Giant Cells***

Undergraduate student in Biological Sciences

Mentor: Thomas L. Brown, *NCBP*

Siham Hourani

Title:

Undergraduate in Biology

Mentor: Ashot Kozak, *NCBP*

J. Chika Morah

Title: ***Normoxia Influences Cell Growth and Total Mitochondrial Volume in Cell Culture***

Undergraduate student in Biological Sciences

Mentor: Christopher Wyatt, *NCBP*

J. Chika Morah

Title: ***The Importance of Cell Culture at Appropriate Ambient Oxygen Levels***

Undergraduate student in Biological Sciences

Mentor: Christopher Wyatt, *NCBP*

Cody Saylor

Title: ***Promoter-Specific, Tet-Inducible Gene Expression***

Undergraduate student in Biological

Sciences

Mentor: Thomas L. Brown, *NCBP*

Danielle Lucas

Title: ***Cell Dispersion in the Somatosensory Cortex of two Guinea Pig Strains***

Graduate student in Nursing

Mentor: Gale Kleven, *NCBP*

Lauren Dixon

Title: ***Heparan Sulfate-Bound Dimeric IL-2: A Potential Mediator of Renal Ischemic Injury***

Graduate student in Undecided

Mentor: Lucile Wrenshall, *Neuroscience, Cell Biology and*

Pharmacology & Toxicology

Pharm/Tox and Neuroscience

Neelima Sharma

Title: ***Factors affecting apelin regulation of potassium chloride cotransport (KCC) in vascular smooth muscle cells (VSMCs)***

Graduate student in Biological Sciences

Mentor: Norma Adragna, *Pharmacology & Toxicology, and Neuroscience*

Emily Smith

Title: ***Measurement of Urinary Catecholamines for Mice***

Undergraduate student in Psychology

Mentor: James Lucot, *Pharmacology & Toxicology*

Abdullah Freiwan

Title: ***TCDD-induced modulation of Ig expression in a human B lymphocyte cell line***

Graduate student in Biological Sciences
Mentor: Courtney Sulentic, *Pharmacology & Toxicology*

Nagendra Babu Ravilla
Title: ***Physiological factors affecting Rb influx in K-Cl cotransporter 3 (KCC3)-transfected human embryonic kidney 293 (HEK293) cells***
Graduate student in Biological Sciences
Mentor: Norma Adragna, *Pharmacology & Toxicology*

Romario Pacheco Andrade
Title: ***Western Blotting technique: The Experience of an undergraduate***
Undergraduate student in Biological Sciences
Mentor: Mauricio DiFulvio, *Pharmacology & Toxicology*

Mahmoud Alghamri
Title: ***Myocardial Angiotensin Metabolism analysis Using Matrix-Assisted Laser Desorption Ionization (MALDI) Imaging***
Graduate student in Undecided
Mentor: Mariana Morris, *Pharm-Tox*

Political Science

Keith McCarty
Title: ***To Rebuild or Remove?: Assessing Intervention Successes in Failed States***
Graduate student in Political Science
Mentor: Vaughn Shannon, *Political Science*

Psychology

Lesley Burdiss
Title: ***Perceptions of Masculinity and Femininity of Alcoholic Beverages***
Undergraduate student in Psychology
Mentor: Gary Burns, *Psychology*

Jennifer Deskins
Title: ***Beliefs about the Structures of Sexual Orientation***
Undergraduate student in Psychology
Mentor: Megan Morris, *Psychology*

Leah Miller
Title: ***Sexual Minority and Ally Brain Drain in Ohio: Survey Design and Pilot Study***
Undergraduate student in Psychology
Mentor: Gary Burns, *Psychology*

Megan Morris
Title: ***Perceptions of Masculinity and Femininity of Alcoholic Beverages***
Graduate student in Psychology
Mentor: Gary Burns, *Psychology*

Megan Morris
Title: ***Beliefs about the Structure of Sexual Orientation***
Graduate student in Psychology
Mentor: Gary Burns, *Psychology*

Emily Polander
Title: ***My doctor told me to....so I did: Linguistic indicators of agency and adherence in hypertension online discussion forums.***
Graduate student in Psychology
Mentor: Valerie Shalin, *Psychology*

Sociology

Gabrielle Lyles