

QUEST 2008: A FORUM FOR STUDENT SCHOLARSHIP PROGRAM SCHEDULE

MORNING SESSION I: 8:30 – 10:00

JAMES GALLERY OHIO ROOM	ELECTRICAL AND COMPUTER ENGINEERING POSTER SESSION I: BIOLOGICAL SCIENCES, COMPUTER SCIENCE AND ASTRONOMY
----------------------------	---

MORNING SESSION II: 10:30 – 12:00

BRESNAHAN I ROOM BRESNAHAN II ROOM	DANA SCHOOL OF MUSIC HEALTH PROFESSIONS, HUMAN ECOLOGY, NURSING, AND PHYSICAL THERAPY
COFFELT ROOM HUMPHREY ROOM JAMES GALLERY JONES ROOM	PHYSICS OLD ENGLISH AND LINGUISTICS MECHANICAL AND INDUSTRIAL ENGINEERING INTERNATIONAL STUDIES RESEARCH: SAN SALVADOR, THE BAHAMAS
OHIO ROOM PUGSLEY ROOM	POSTER SESSION II: MULTIDISCIPLINARY SESSION HISTORY, SOCIOLOGY, AND POLITICAL SCIENCE

CHESTNUT ROOM QUEST STUDENT AND FACULTY LUNCHEON 12:00 – 1:15

KEY NOTE SPEAKER: Dr. Martin Abraham "Sustainability in Research"

AFTERNOON SESSION I: 1:30 – 3:00

BRESNAHAN I ROOM BRESNAHAN II ROOM COFFELT ROOM	MULTI-DISCIPLINARY SESSION: CHEMICAL AND CIVIL ENGINEERING AND CONSTRUCTION ENGINEERING TECH. EDUCATION
HUMPHREY ROOM JAMES GALLERY JONES ROOM	MULTI-DISCIPLINARY SESSION: PSYCHOLOGY, COMMUNICATIONS AND AMERICAN STUDIES LINGUISTICS
OHIO ROOM OHIO ROOM PUGSLEY ROOM	MECHANICAL AND INDUSTRIAL ENGINEERING MULTI-DISCIPLINARY SESSION: LITERATURE, ART, THEATER AND DANCE POSTER SESSION III: CHEMISTRY SIGMA XI FACULTY RESEARCH POSTERS ACCOUNTING, BUSINESS ADMINISTRATION AND MARKETING

AFTERNOON SESSION II: 3:30 – 5:00

COFFELT ROOM HUMPHREY ROOM JAMES GALLERY JONES ROOM OHIO ROOM	BIOLOGICAL SCIENCES COMPUTER SCIENCE AND INFORMATION TECHNOLOGY MECHANICAL AND INDUSTRIAL ENGINEERING CRIMINAL JUSTICE POSTER SESSION III: HEALTH AND HUMAN SERVICES
---	--

JAMES GALLERY - ELECTRICAL AND COMPUTER ENGINEERING

Session Moderator: Dr. Jalal Jalali, Electrical and Computer Engineering

- 8:30 - 8:45 Data Acquisition Design for the Enhancement of the Baja SAE Car
David Kitt and Andrew Popovich
Faculty Advisor: Dr. Jalal Jalali
- 8:45 - 9:00 Design of a High Voltage Audio System using a Tesla Coil and Plasma Tweeter
Jonathan Airhart, Andre Ptichkin, Firas Alshafei, and Anthony Foutz
Faculty Advisor: Dr. Jalal Jalali
- 9:00 - 9:15 Discrete Lighting Control using Integrated Circuit Architectures
Antoine Ogbonna, James Hall, Chayce Bibbee, and Adam Hyler
Faculty Advisor: Dr. Jalal Jalali
- 9:15 - 9:30 Hydrogen Dissociation from Salt Water
Don Miller, Dan Schneider, Dale Rosensteel, and Michelle Mariacher
Faculty Advisor: Dr. Jalal Jalali
- 9:30 - 9:45 Induction Heating Coil Load Monitor Digital Acquisition & Display Board
Nickolaus Lockard and John Weaver
Faculty Advisor: Dr. Jalal Jalali
- 9:45 - 10:00 Stiffness Differences between the Fingers of the Dominant and Non-Dominant Hands
Andrew Emig and Andrew McCain
Faculty Advisor: Dr. Weiqing Ge

OHIO ROOM - POSTER SESSION I: BIOLOGICAL SCIENCES, COMPUTER SCIENCE AND ASTRONOMY

Session Moderators: Dr. Chet Cooper, Biological Sciences and Dr. Gregg Sturuss, Physics and Astronomy

- 8:30 - 10:00 2D-PAGE Comparison of Myocardial Collagen in Male and Female SHR
Benjamin L. Fulton
Faculty Advisor: Dr. Johanna Krontiris-Litowitz
- 8:30 - 10:00 Alternative Methods to Treat Staphylococcus aureus Using a Synthesized Product
Michelle Ross
Faculty Advisor: Dr. Diana L. Fagan
- 8:30 - 10:00 Applying New Methods to Extragalactic Planetary Nebulae Surveys
Ashley Skalsky
Faculty Advisor: Dr. John J. Feldmeier
- 8:30 - 10:00 Carbohydrate Mimetic (MV-II-063) Testing for Inhibition of S. aureus Capsule
Rashee Goyal
Faculty Advisor: Dr. Diana L. Fagan

**OHIO ROOM - POSTER SESSION I: BIOLOGICAL SCIENCES, COMPUTER SCIENCE
AND ASTRONOMY, Continued**

- 8:30 - 10:00 Characterization of a Multimetal Resistant Strain of Enterobacter cloacae
Andrew Holmes
Faculty Advisor: Dr. Jonathan J. Caguiat
- 8:30 - 10:00 Chloroplast DNA Differences May Lead to Dutch Elm Disease Resistance
Melissa Fleeger
Faculty Advisor: Dr. Heather E. Lorimer
- 8:30 - 10:00 Eavesdropping in Plants: A Test of the Biochemical Recognition Hypothesis
Gregory W. Shook, Jr., Brandon T. Sinn, David M. Sedlacko, and
Jessica R. Dull
Faculty Advisor: Dr. Ian J. Renne
- 8:30 - 10:00 Flora of Poland Municipal Forest
Bruce J. Ciccone, Brandon T. Sinn, and Richard G. Catterlin
Faculty Advisor: Carl F. Chuey
- 8:30 - 10:00 Future Treatments for Staphylococcus aureus
Maurice Royal
Faculty Advisor: Dr. Diana L. Fagan
- 8:30 - 10:00 LaeA as a Competent Virulence Factor in Aspergillus fumigatus
Michael Stephen Bolton
Faculty Advisor: Dr. Jonathan J. Caguiat
- 8:30 - 10:00 Modelling Forest Dynamics Using Field Data from Zoar Valley, Western
New York
Erin K Pfeil and Irena Lanc
Faculty Advisor: Dr. Alina Lazar
- 8:30 - 10:00 Proteomic Studies of a Selenite Resistant Strain of E. coli
Cherise Benton
Faculty Advisor: Dr. Jonathan J. Caguiat
- 8:30 - 10:00 Testing Glycomimetic Compounds to Determine Their Ability to Prevent
Capsule Pro
Katherine Pavlidakey
Faculty Advisor: Dr. Diana L. Fagan
- 8:30 - 10:00 The Effects of Calyculin A and Ryanodine on Aortic Smooth Muscle
Contractions
Stephanie Maus and Ashley Yager
Faculty Advisor: Dr. Robert E. Leipheimer
- 8:30 - 10:00 The Investigation of the use of Carbohydrate Mimetic MV-II-065 in the
Prevention of Staphylococcus aureus Infection
Samar Boulos
Faculty Advisor: Dr. Diana L. Fagan
- 8:30 - 10:00 The Roots of Pharmacology
Amber Bibey
Faculty Advisor: Dr. Jill M. Tall
- 8:30 - 10:00 The Search for Asteroids in the BOKS Survey Field
Feldmeier, John J.
Faculty Advisor: Dr. John J. Feldmeier
- 8:30 - 10:00 Transposon Mutagenesis of a Selenite Resistant Strain of Enterobacter
Venkataramana Konda, Moparthi Swarnalatha, Cherise Benton,
Kristi Mraz, Misti Mraz, and Frank Heinselman
Faculty Advisor: Dr. Jonathan J. Caguiat

BRESNAHAN I ROOM – DANA SCHOOL OF MUSIC

Session Moderator: Dr. Amy Graban Crawford, Communications

- 10:30 - 10:45 Robert Schumann: The Clara Ciphers
Sara Kimbell
Faculty Advisor: Dr. Jee-Weon Cha
- 10:45 - 11:00 That's Precisely What I Had in Mind!
Eric Litschel
Faculty Advisor: Dr. Melva Huebert
- 11:00 - 11:15 The Birth of the Romantic Lied: A Look at Franz Schubert's Gretchen am Spinnrade
Tim Hampton
Faculty Advisor: Dr. Jee-Weon Cha

BRESNAHAN II ROOM - HEALTH PROFESSIONS, HUMAN ECOLOGY, NURSING, AND PHYSICAL THERAPY

Session Moderator: Teresa A. Volsko, Health Professions

- 10:30 - 10:45 Knowledge of the Transmission and Effects of HIV and AIDS at YSU
Lora I. Werkmeister
Faculty Advisor: Christopher M. Kippes
- 10:45 - 11:00 Literacy Assessment of Internet Based Consumer Healthcare Information
Tiffany Walsh
Faculty Advisor: Teresa A. Volsko
- 11:00 - 11:15 Resistive Exercise to Decrease BMI, Increase Lean Body Mass and Improve Self Esteem
David Denton
Faculty Advisor: Suzanne M. Giuffre
- 11:15 - 11:30 The Effects of a Diabetic Education Program for the Elderly in an Assisted/Independent Living Facility
Regina M. Zayd
Faculty Advisor: Kathylynn Feld, MS, RN, CMA
- 11:30 – 11:45 Undergraduate Interest in Gerontology
Andrew Wilson
Faculty Advisor: Dr. Daniel Van Dussen
- 11:45 – 12:00 Obesity and Polypharmacy in the Elderly
Jodi Mitchell
Faculty Advisor: Dr. Nancy Mosca
- 12:00 – 12:15 Promoting Preceptorship
Sevasti Hadzigeorge
Faculty Advisor: Kimberly A. Serroka

COFFELT ROOM – PHYSICS

Session Moderator: Dr. John Feldmeier, Physics and Astronomy

- 10:30 - 10:45 2008 Experimental Plans in Youngstown State University's Isomer Physics Project
Isaac N Mills, Geoffrey Trees, Trevor Balint, Thomas Harle, Shane Downing, and Nathan Caldwell
Faculty Advisor: Dr. James J. Carroll
- 10:45 - 11:00 Comparison of SiC Schottky Diodes with Ni and Ni₂Si Contacts
Tom Oder
Faculty Advisor: Dr. Tom N. Oder
- 11:00 - 11:15 Electrical Properties of Schottky Barrier Diodes on n-type 4H-SiC using W₂B₅ Sch
Rani Kummari
Faculty Advisor: Dr. Tom N. Oder
- 11:15 - 11:30 Multi-detector Coincidence Techniques to Test Induced Depletion of ^{178m2}Hf
Geoffrey Trees
Faculty Advisor: Dr. James J. Carroll
- 11:30 - 11:45 Preliminary Tests of Induced Depletion of ^{108m}Ag Using Bremsstrahlung Radiation
Trevor Balint
Faculty Advisor: Dr. James J. Carroll

HUMPHREY ROOM - OLD ENGLISH AND LINGUISTICS

Session Moderator: Dr. Rebecca Barnhouse, English

- 10:30 - 10:45 Christ as a Christian: Reading The Dream of the Rood as a Christian Poem
Christina Delfosse, Melodie Provencher and Elaine Habeger
Faculty Advisor: Dr. Rebecca Barnhouse
- 10:45 - 11:00 How the Anglo-Saxon Scop Sings of Himself
Melodie Provencher
Faculty Advisor: Dr. Rebecca Barnhouse
- 11:00 - 11:15 Reading "Reading St. Aethelthryth as a Woman" as a Feminist
Elaine Habeger
Faculty Advisor: Dr. Rebecca Barnhouse
- 11:15 - 11:30 The Bronze Dame
Wayne Bartholomew
Faculty Advisor: Dr. Rebecca Barnhouse
- 11:30 - 11:45 Wife: The Life & Times of a Formerly Dirty Word
Gary Davenport
Faculty Advisor: Dr. Rebecca Barnhouse

JAMES GALLERY - MECHANICAL AND INDUSTRIAL ENGINEERING

Session Moderator: Dr. Daniel Suchora, Mechanical and Industrial Engineering

- 10:30 - 10:45 An Inquiry into Magnetic Interactions and Principles for use in a Permanent Magnet
Philip Carlon, Charles Marino, and Jeremiah Mount
Faculty Advisor: Dr. Elvin B. Shields
- 10:45 - 11:00 Cyclone Support Structure
Scott Sherrod and Russell Newman
Faculty Advisor: Dr. Elvin B. Shields
- 11:00 - 11:15 Fireline, Inc. Quality Improvement Project - Reduction of Ceramic Cracks
William Stadler
Faculty Advisor: Dr. Martin Cala
- 11:15 - 11:30 Heavy Capacity Lathe for Three Axis Milling Machine Upgrade
Ben DeMar, Brian Meek, and Mike Fox
Faculty Advisor: Dr. Elvin B. Shields
- 11:30 - 11:45 Mandrel Stress Relief Furnace
Todd Hoperich, Mandy Pavlicko, and Kathleen Schneider
Faculty Advisor: Dr. Elvin B. Shields
- 11:45 - 12:00 Testing Apparatus for Nylon Bearing Chair Swivels
William Thompson, Christopher Keller, Shannon Parker, and Elizabeth Waugh
Faculty Advisor: Dr. Elvin B. Shields

JONES ROOM- INTERNATIONAL STUDIES RESEARCH: SAN SALVADOR, THE BAHAMAS

Session Moderator: Dr. Shane V. Smith, Geological and Environmental Sciences

- 10:30 - 10:45 An Investigation of Entombed Beach Debris on the East Coast Beaches
Ryan Baltic
Faculty Advisor: Dr. Ronald V. Shaklee
- 10:45 - 11:00 Determining Paleowind Direction of Eolianites on San Salvador, Bahamas
Tessa Brookman
Faculty Advisor: Dr. Shane V. Smith
- 11:00 - 11:15 Geocaching: A New Approach to Learning Geosciences Subjects
Paul Robinette and Troy Brant
Faculty Advisor: Dr. Dawna L. Cerney and Dr. Jeffrey C. Dick
- 11:15 - 11:30 An Investigation of Floating Debris and Subsurface Deposition In San Salvador
Joshua Marshall
Faculty Advisor: Dr. Ronald V. Shaklee

OHIO ROOM - POSTER SESSION II: MULTIDISCIPLINARY SESSION

Session Moderators: Dr. Cynthia Hirtzel, Center for Transportation and Material Eng.
and Dr. Martin Cala, Industrial Engineering

- 10:30 - 12:00 A Community Assessment Of Gerontology Educational Needs And Employment Outlook
Meaghan Galloway
Faculty Advisor: Dr. Daniel J. Van Dussen
- 10:30 - 12:00 Applied Methods at Brainard Rivet Company
Lee Hartman and Clarence Howell
Faculty Advisor: Dr. Martin Cala
- 10:30 - 12:00 CCET Sourcebook
Ashley Moritz
Faculty Advisor: Dr. William A. Wood
- 10:30 - 12:00 Converting Human Kinetic Energy to Electricity Using a Stationary Bike
Joshua Arnal, Nicholas Rodland, and Andrew Mattson
Faculty Advisor: Dr. Jalal Jalali
- 10:30 - 12:00 Hezbollah: A Case Study
Susan Stipanovich
Faculty Advisor: Dr. David S. Porter
- 10:30 - 12:00 Inductive Speaker System
Matthew Huston, Michael Kovachik, Drew L. Mason, and David Garthwaite
Faculty Advisor: Dr. Jalal Jalali
- 10:30 - 12:00 Production Analysis of Trimming and Inspecting Operation at Fireline, Inc.
Alexis Penrose and Joe Juby
Faculty Advisor: Dr. Martin Cala
- 10:30 - 12:00 Production Flow Analysis Within a Production System at Patriot Seating
Andy Bako and Derek Allen
Faculty Advisor: Dr. Martin Cala
- 10:30 - 12:00 Quantitative Evaluation of Face Sketch
Vincent Valerio, David Belgrad, Amy Kreiger, Joe Rossi, Bernard Schmalzried, Juliana Cala, Colleen George, and Chris Kasmar
Faculty Advisor: Christine E. McCullough
- 10:30 - 12:00 School Counselors Role in Promoting Healthy Partner Relationships
Jessica Knopp
Faculty Advisor: Dr. Jake J. Protivnak
- 10:30 - 12:00 Separation of Oil and Water Emulsion of Effluent Lubrication Streams from a Copper Mill
Travis Witt, Trista Plunkett, Cheryl Franklin, Julia Darling, and William Haug
Faculty Advisor: Dr. Douglas M. Price
- 10:30 - 12:00 Status, Workshops, and Ritual Goods: Excavations at the Ancient Maya City of Cancuen, Guatemala
Caitlyn Ryan, Ryan Rexroad, and Meaghan Galloway
Faculty Advisor: Dr. Matt O'Mansky
- 10:30 - 12:00 The Scanning Electron Micrograph
Jim Davner and Jeremy Cowan
Faculty Advisor: Dr. Cynthia Hirtzel
- 10:30 - 12:00 Work Measurement and Productivity Development at Altronic Inc.
Brittany Wilkins and Rick Thompson
Faculty Advisor: Dr. Martin Cala

PUGSLEY ROOM – HISTORY, SOCIOLOGY, AND POLITICAL SCIENCE

Session Moderator: Dr. Fred Viehe, History

- 10:30 - 10:45 Alexander Nevskii: Hero or Traitor?
Jennifer Hanuschak
Faculty Advisor: Dr. Brian Bonhomme
- 10:45 - 11:00 Evaluation of Decision Making in the Cuban Missile Crisis
Gregory Yakubov
Faculty Advisor: Dr. Thomas E. Leary
- 11:00 - 11:15 Negotiating Polish History: Scripting a Holocaust Exhibit for the Slovak National
Patricia Scarmuzzi, Jessica Rohrdanz, Catherine Rudnicki, Rebecca Smith, and Tammy Troup
Faculty Advisor: Dr. Thomas E. Leary
- 11:15 - 11:30 Peru's Shining Path: Terror Tactics and Thought
Sarah Lewis
Faculty Advisor: Dr. David S. Porter
- 11:30 - 11:45 Revolt: The Late 19th Century and Press Treatment of Social Dissidents
Paul Brenner
Faculty Advisor: Dr. Diane Barnes
- 11:45 - 12:00 The Influence of Railroads in America
Lora Kontz
Faculty Advisor: Dr. Fred W. Viehe
- 12:00 – 12:15 Wake Up
Elizabeth Khumprakob
Faculty Advisor: Dr. Matt O'Mansky

BRESNAHAN I ROOM – MULTI-DISCIPLINARY SESSION: CHEMICAL ENGINEERING AND CIVIL AND CONSTRUCTION ENGINEERING TECHNOLOGY

Session Moderator: Dr. Douglas Price, Civil, Environmental and Chemical Engineering

- 1:30 - 1:45 3-D Printer
Alberto Miranda
Faculty Advisor: Dr. Cynthia Hirtzel
- 1:45 - 2:00 Greening the Construction Curriculum
Evan Hubbard
Faculty Advisor: David G. Kurtanich, P.E.
- 2:00 - 2:15 Separation of Water from Chemically Emulsified Oil
Kristin Gilida, Kendra Shook, Leah Nakley, Halley Moore, and David Johnson
Faculty Advisor: Dr. Douglas M. Price
- 2:15 - 2:30 Testing of Masonry Lintels
Nate Malmsberry
Faculty Advisor: David G. Kurtanich, P.E.

BRESNAHAN II ROOM - EDUCATION

Session Moderator: Dr. Sylvia J. Imler, Counseling and Special Education

- 1:30 - 1:45 Connecting Planetarium Shows to Classroom Instruction
Victoria M. Chaney
Faculty Advisor: Sharon Shanks
- 1:45 - 2:00 Readers Theater
Jennifer Unger
Faculty Advisor: Dr. Regina M. Rees

COFFELT ROOM - MULTI-DISCIPLINARY SESSION: PSYCHOLOGY, COMMUNICATIONS AND AMERICAN STUDIES

Session Moderator: Rebecca Curnalia Lukasiewicz, Communications

- 1:30 - 1:45 A Systems Theory Approach to Attachment in Adult Relationships
Nicole Adamson
Faculty Advisor: Dr. Jeffrey T. Coldren
- 1:45 - 2:00 Attractiveness and Humor: Does one Help the Other?
Natalie Ciferno
Faculty Advisor: Dr. Margaret M. Gittis
- 2:00 - 2:15 Equal Rights for Women
LeRonica Bolling, Kayshia Washington, and Shaiyla Hakeem
Faculty Advisor: Rebecca Curnalia Lukasiewicz
- 2:15 - 2:30 Furry Microculture
Michael Brenner
Faculty Advisor: Dr. Stephanie A. Tingley
- 2:30 - 2:45 Name Bias in Promotion and Salary
Ryan Murcko
Faculty Advisor: Dr. Margaret M. Gittis
- 2:45 - 3:00 Rhetorical Analysis
Laronica Bolling
Faculty Advisor: Rebecca Curnalia Lukasiewicz

HUMPHREY ROOM – LINGUISTICS

Session Moderator: Dr. Steven Brown, English

- 1:30 - 1:45 An Empirical Investigation of Gender Variation in Perceptions of Gratitude
Phillip Hamrick and Attilio D'Agresti
Faculty Advisor: Dr. Barbara Nykiel-Herbert
- 1:45 - 2:00 Analyzing Arguments in Television Dramas
Jaclyn Elias and Nichole Cannon
Faculty Advisor: Dr. Barbara Nykiel-Herbert
- 2:00 - 2:15 Seriously?: A Sociolinguistic Study of Grey's Anatomy
Kelly A. Murphy
Faculty Advisor: Dr. Barbara Nykiel-Herbert
- 2:15 - 2:30 The Color Purple? Gay/Straight Descriptor Correspondence in North-East Ohio
Gary Davenport and Sarah Lowry
Faculty Advisor: Dr. Barbara Nykiel-Herbert
- 2:30 - 2:45 Yo Bitch: An Empirical Study of Contemporary Usage
Susan Bishop and Tracy Gallatin
Faculty Advisor: Dr. Barbara Nykiel-Herbert

JAMES GALLERY- MECHANICAL AND INDUSTRIAL ENGINEERING

Session Moderator: Dr. Elvin B. Shields, Mechanical and Industrial Engineering

- 1:30 - 1:45 Anti-Penetration Equipment Designed For the Obstruction of Vehicles
Megan Genuske, Jeff Michael, and Adam Wolfgang
Faculty Advisor: Dr. Elvin B. Shields
- 1:45 - 2:00 Design And Evaluation of "El Matador" Anti-Ram Barrier
Christopher Hallett, Jason Corman, and Jeremy Minor
Faculty Advisor: Dr. Elvin B. Shields
- 2:00 - 2:15 Design of The Hammer: an Anti-Ram Vehicle Barrier
Farrell Belknap, Dan Vernon, and Jason Lisko
Faculty Advisor: Dr. Elvin B. Shields
- 2:15 - 2:30 Design of the No-Go Vehicle Barrier
Doug Wajda, Chris Miller, and Michael Yatsco
Faculty Advisor: Dr. Elvin B. Shields
- 2:30 - 2:45 Hydraulically Operated Gate Security System
Robert Cunningham, Matt Ridzon, Nick Durse, and Amy Melchert
Faculty Advisor: Dr. Elvin B. Shields

**JONES ROOM - MULTI-DISCIPLINARY SESSION: LITERATURE, ART, THEATER
AND DANCE**

Session Moderator: Dr. Corey E. Andrews, English

- 1:30 - 1:45 The Orphan's Oral Defense: Language and Social Mobility in Two Victorian Novels
Sarah Lowry
Faculty Advisor: Dr. Julia M. Gergits
- 1:45 - 2:00 Nought but Grief an' Pain for Promis'd Joy: A Sympathetic Look into the Character and Motherhood of a Classic British Monstress
Caitlyn Ryan
Faculty Advisor: Dr. Corey E. Andrews
- 2:00 - 2:15 Afflictions - Paintings by John G Petruzzi
John Petruzzi
Faculty Advisor: Dragana Crnjak
- 2:15 - 2:30 Preserving the Essence: Visually Investigating Life, Death, and the Afterlife
Johanna George
Faculty Advisor: Dragana Crnjak
- 2:30 - 2:45 Fred Astaire and Eleanor Powell in Broadway Melody of 1940: Tap's Finest Hour
Erianne R. Raib
Faculty Advisor: Christine Cobb

OHIO ROOM - POSTER SESSION III: CHEMISTRY and SIGMA XI FACULTY RESEARCH

Session Moderators: Dr. Brian Leskiw and Dr. Timothy Wagner, Chemistry

- 1:30 - 3:00 Conformational Analysis Using Chem3D: Cyclohexanes to Synthetic Carbohydrates
Kelly Culbertson, Krista Cunningham, Madeline D'Orio, Devin Kelly, Jeff Sirko, Bethany Vlaiku, and Anthony Berdis
Faculty Advisor: Dr. Peter Norris
- 1:30 - 3:00 Formaldehyde and Sulfur Dioxide Detection by Using Laser-Induced Fluorescence
Ravikumar Boddeti and Anand Matta
Faculty Advisor: Dr. Josef B. Simeonsson
- 1:30 - 3:00 Hydride Generation and Laser Spectroscopy for Trace Measurements of Sb and Se
Sangeetha Chari and Sandeep Kunati
Faculty Advisor: Dr. Josef B. Simeonsson
- 1:30 - 3:00 In Situ Alkyl and Acyl Azide Synthesis Using p-ABSA/DBU
Tracy Vadjinia, Brooke Katzman, Tareq Kayyali, and Pat Anderson
Faculty Advisor: Dr. Peter Norris
- 1:30 - 3:00 Novel Mixed-Anion Colossal Magnetoresistive Materials
Anita Dasu
Faculty Advisor: Dr. Timothy R. Wagner
- 1:30 - 3:00 Rhodium(II)-catalyzed Decomposition of Furanose-derived Diazoesters
Jennie Patton, Ashley Malich, and Calvin Austin
Faculty Advisors: Dr. Peter Norris and Dr. Matthias Zeller

**OHIO ROOM - POSTER SESSION III: CHEMISTRY and SIGMA XI FACULTY RESEARCH,
Continued**

- 1:30 - 3:00 Structure and Preliminary Biological Evaluation of N-Glucosyl-1,2,3-triazoles
Erin Schuler and Steve Knapp
Faculty Advisors: Dr. Peter Norris, Dr. Matthias Zeller, and Dr. Nina Stourman
- 1:30 - 3:00 Studies of Substrate Materials For Trace Analysis by SERS Techniques
Pratima Vabbilisetty
Faculty Advisor: Dr. Josef B. Simeonsson
- 1:30 - 3:00 Synthesis and Characterization of the Novel Perovskite KCo_{0.6}Ni_{0.4}F₃
Chad Miller
Faculty Advisor: Dr. Timothy R. Wagner
- 1:30 - 3:00 Synthesis of N-2-Modified Analogs of N-Acetyl-L-Fucosamine
David McCutcheon
Faculty Advisor: Dr. Peter Norris
- 1:30 - 3:00 The Gas Phase Ligand Exchange of Cu & Ni & #946;-diketonate Complexes
Jordan Lerach
Faculty Advisor: Dr. Brian D. Leskiw
- 1:30 - 3:00 To Cork or Not to Cork, Are Spin Caps Better?
John A. Milo
Faculty Advisor: Dr. Brian D. Leskiw
- 1:30 - 3:00 To Dissociate or Decompose: A Comparison of Thermal Analysis and Mass Spectrometry
Calvin Austin
Faculty Advisor: Dr. Brian D. Leskiw
- 1:30 - 3:00 Why Does My Wine Taste Like Dirt?
Sherri L. Claypoole
Faculty Advisor: Dr. Brian D. Leskiw
- 1:30 - 3:00 Carbohydrate Mimetics as Potential Antiinfective Treatments for Staphylococcus aureus
Diana L. Fagan, Maurice Royal, Monica Vicarel, Peter Norris
Sigma Xi
- 1:30 - 3:00 Measuring the Production Rate of Planetary Nebulae in Spiral Galaxies
Feldmeier, J.J. (YSU), Herrmann, K. A. (Penn State), Ciardullo, R.B. (Penn State), Jacoby, George (WIYN Observatory)
Sigma Xi

PUGSLEY ROOM - ACCOUNTING, BUSINESS ADMINISTRATION AND MARKETING

Session Moderator: Dr. Jeffrey C. Dick, Geological and Environmental Sciences

- 1:30 - 1:45 E-Commerce: How the Internet Affects Global Economy
Lindsay Lipp
Faculty Advisor: Martha Mitchell-Cook
- 1:45 - 2:00 Experiential Learning as Student Market Consultants
Ashley Basile and Adrienne Sabo
Faculty Advisor: Dr. Peter A. Reday
- 2:00 - 2:15 Financial Literacy Among College Students
Nicole Mraz, Hanna Kassis, and Jaime Kudary
Faculty Advisor: Dr. Raymond J. Shaffer
- 2:15 - 2:30 Student Money Beliefs and Behavioral Patterns with Credit versus Debt Purchases
Mercedes Miller
Faculty Advisor: Dr. David E. Stout
- 2:30 - 2:45 The Antecedents of Academic Dishonesty in MBA Programs
Donna Walsh
Faculty Advisor: Dr. Mark F. Toncar
- 2:45 - 3:00 The Impacts of a Study Abroad Program
Amber Gallagher and Erica Cross
Faculty Advisor: Larry A. Zielke
- 3:00 - 3:15 Time-Driven Activity-Based Costing (TDABC) at a Medium-Sized Electronics Company
Joe Propri
Faculty Advisor: Dr. David E. Stout
- 3:15 - 3:30 What Do MBA Students Really Want?
Ashley M. Basile
Faculty Advisor: Dr. Peter A. Reday

COFFELT ROOM - BIOLOGICAL SCIENCES

Session Moderator: Dr. Johanna Krontiris-Litowitz, Biological Sciences

- 3:30 - 3:45 Utilizing Proteomics to Investigate Morphogenesis in *Wangiella dermatitidis*
Caralisa Breidenbaugh
Faculty Advisor: Dr. Chester R. Cooper Jr.
- 3:45 - 4:00 Modelling Forest Dynamics Using Field Data from Zoar Valley, Western New York
Irena Lanc and Erin K. Pfeil
Faculty Advisor: Dr. Thomas P. Diggins
- 4:00 - 4:15 Ouch, That's Cold!: A Protocol to Study Pain in Response to Cold Stimuli
Victoria Digennaro
Faculty Advisor: Dr. Jill M. Tall

HUMPHREY ROOM - COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

Session Moderator: Dr. Robert Kramer, Computer Science and Information Systems

- 3:30 - 3:45 Mapping Poland Municipal Forest with GPS and GIS
Thomas Buckler
Faculty Advisor: Dr. Bradley A. Shellito
- 3:45 - 4:00 Smart Devices and Programming Them
Christina Brenner
Faculty Advisor: Dr. Alina Lazar
- 4:00 - 4:15 QUEST Website Re-design with Management Portal
Ron Canacci
Faculty Advisor: Robert A. Hogue

JAMES GALLERY- MECHANICAL AND INDUSTRIAL ENGINEERING

Session Moderator: Dr. Hazel Marie, Mechanical and Industrial Engineering

- 3:30 - 3:45 Anti-Truck Barrier
William Purnell, Chelsye Castle, Mark Macali, and Devin Wilmouth
Faculty Advisor: Dr. Elvin B. Shields
- 3:45 - 4:00 PB & J Vehicle Barrier
Patrick Coleman, Bryan Parsons, and Justin Kopelos
Faculty Advisor: Dr. Elvin B. Shields
- 4:00 - 4:15 Road Protection Guard: A Design of Anti-Ram Barriers
Nathan Sfara, Brad McCullough, and Todd Baird
Faculty Advisor: Dr. Elvin B. Shields
- 4:15 - 4:30 SAE Supermilage Competition: Fuel Milage Maximization Through an Internal Combustion Engine
Ahmed Khodari, Thomas Meikle, Brandon Papa, Kyle Sands, and Josh Winters
Faculty Advisor: Dr. Elvin B. Shields
- 4:30 - 4:45 The Great Moonbuggy Competition: Hub Design and the Hydraulic Braking System
Sara Wise, Danielle Guerrieri, Tammy Donnadio, Greg Mathes, and Jason Jones
Faculty Advisor: Dr. Elvin B. Shields
- 4:45 - 5:00 The Great Moonbuggy Competition: Reverse Pedaling and Frame Aspects
Sara Wise, Danielle Guerrieri, Tammy Donnadio, Greg Mathes, and Jason Jones
Faculty Advisor: Dr. Elvin B. Shields

JONES ROOM - CRIMINAL JUSTICE

Session Moderator: Dr. John M. Hazy, Criminal Justice

- 3:30 - 3:45 An Evaluation of Ohio's Drug Courts: Emphasis on Youngstown
Stacey Stein
Faculty Advisor: Dr. John M. Hazy
- 3:45 - 4:00 Experience vs Expectation: Does Experience in Forensics Diminish the CSI Effect?
Robert Wardle, III and Mathew Smith
Faculty Advisor: Robert Wardle, III
- 4:00 - 4:15 Institutional Adjustment at a Juvenile Detention Center
Kelly Melvin
Faculty Advisor: Dr. Tammy Callihan King
- 4:15 - 4:30 Mercy Killings in Film
Mathew Smith
Faculty Advisor: Dr. John M. Hazy
- 4:30 - 4:45 Public Views of Police Deception
Stephen Steh
Faculty Advisor: Dr. Gordon G. Frissora
- 4:45 - 5:00 The Impact of Police and Jail Population on the Incidence of Homicide
Rachel Detec
Faculty Advisor: Allen C. Pierce
- 5:00 - 5:15 The Use of Methadone in Correctional Facilities
Denise Morlan
Faculty Advisor: Dr. John M. Hazy

OHIO ROOM - POSTER SESSION III: HEALTH AND HUMAN SERVICES

Session Moderator: Amy Weaver, Nursing

- 3:30 - 5:00 Adolescent Centers: Should We Have More?
Melissa Miller
Faculty Advisor: Dr. John M. Hazy
- 3:30 - 5:00 Assessment of Habitual Dietary Intake of Firefighters: A Pilot Study
Eric Bader
Faculty Advisor: Dr. Michele L. McCarroll
- 3:30 - 5:00 Current Food Trends and Eating Habits in the Mahoning Valley
Lindsey Faith, Elyse Di Martino, Elizabeth Orsillo, and
Jessica Quinn
Faculty Advisor: Dr. Zara C. Rowlands
- 3:30 - 5:00 Knowledge and Practices Related to Dietary Sodium
Michelle Borovitcky, Noelle Roth, Brittany Smith, James Campana,
and Colleen Aurand
Faculty Advisor: Dr. Zara C. Rowlands
- 3:30 - 5:00 Transcultural Nursing Experience in Maiz, Mexico
Wendy Smith, Renee Palowitz, Stephanie Shields, and
Rachel Henderson
Faculty Advisor: Nancy Wagner