

2008 Conference on Undergraduate and Graduate Student Research—March 27, 2008

Room 308	Room 310	Room 312	Room 314	Room 316	Room 335
Chemical Engineering 9:05-10:45	Mechanical Engineering 9:05-10:45	Nursing 9:05-10:45	Modern Languages 9:05-10:25	Geology 9:05-10:45	Communications 9:05-10:45
9:05 Biocompatibility Evaluation of Novel L-tyrosine Based Polymers: In Vitro Studies— <i>Parth Shah</i> , Chemical & Biomolecular Engineering. (Co-authors: <i>Dr. Stephanie T. Lopina</i> and <i>Dr. Yang H. Yun</i>) 9:25 Computational Modeling of Plume Dynamics in Multiple Pulse Laser Ablation— <i>Kedar Pathak</i> , Mechanical Engineering. 9:45 Reactive-Riemann Solver for Ablation— <i>Nathan Mullenix</i> , Mechanical Engineering. 10:05 Synthesis, Characterization and In Vitro Activity of Nanoparticle “Paint-Brush” Conjugates for Cancer Nanotherapy— <i>Vinu Krishnan</i> , Chemical & Biomolecular Engineering. (Co-author: <i>Dr. Stephanie T. Lopina</i>) 10:25 Dewetting of Polystyrene Thin Films on Poly(ethylene glycol) Modified Surfaces as a Simple Approach for Patterning Protein— <i>Yangjun Cai</i> , Chemical & Biomolecular Engineering.	9:05 A Microfluidic Capacitive Sensor for Wear Detection in High Viscous Fluids— <i>Srinidhi Murali</i> , Mechanical Engineering. (Co-authors: <i>Dr. Zhe, Xingagao Xia</i> and <i>Dr. Joan Carletta</i>) 9:25 A Capillary Microgripper using Electrowetting on Dielectric— <i>Abhay Vasudev</i> , Mechanical Engineering. (Co-author: <i>Dr. Jiang Zhe</i>) 9:45 Deformation and Durability Studies of Polymeric Materials— <i>Sunil Kumar Bandaru</i> , Mechanical Engineering. (Co-author: <i>Dr. Shing-Chung Wong</i>) 10:05 Boundary Singularity Method for Partial-slip Fibrous Filtration Flows— <i>Shunliu Zhao</i> , Mechanical Engineering. 10:25 Identification of Gear and Bearing Damage in a Transmission System— <i>Jie Wen</i> , Mechanical Engineering.	9:05 Goodwill Parenting Injury Prevention— <i>Rose Maley</i> , Nursing. (Co-author: <i>Kendra Travis-Paxton</i>) 9:25 Vitamin D Deficiency, Function, and Falls in the Elderly: Screening and Supplementation— <i>Sherry Stewart</i> , Nursing. 9:45 Dyslipidemia and Hypothyroidism— <i>Marta Flood</i> , Nursing. 10:05 Vitamin D Insufficiency— <i>Amy DuPont</i> , Nursing. 10:25 Stigma and Help-Seeking for Depression in the United Arab Emirates— <i>Salma Mansour</i> , Nursing. (Co-author: <i>Dr. Margaret Halter</i>)	9:05 Federico García Lorca's Bodas de sangre and Carmen de Burgos's Puñal de Claveles: Two Versions of the Same Story— <i>Brenda Ortiz-Loyola</i> , Modern Languages. 9:25 Dispelling the Myth of “La mujer roja”: The Counter-history of Military Dictatorships in Spain and Argentina— <i>Amanda Matousek</i> , Modern Languages. 9:45 Searching for a World without Gender Hierarchy in Post-Civil War Spain: An Examination of the Work of Remedios Varo and Mercè Rodoreda— <i>Anna Hamilton</i> , Modern Languages. 10:05 The “Españoles” of Cervantes' Tragedia de Numancia— <i>Clifford Lee</i> , Modern Languages.	9:05 Discerning the Record: Event Deposition and Biologic Response Storrs Lake, San Salvador Island— <i>Sara Sipahioglu</i> , Geology. 9:25 Formation of Rimstone— <i>Gary Orum</i> , Theoretical & Applied Mathematics. 9:45 Differentiation and Origin of Pink Inclusions in Glacial Sediments in Eastern Ohio— <i>Belinda Franko</i> , Geology. 10:05 Water Movement in the Ocean and its Effects on the Atmosphere— <i>Nena Brierly</i> , Geology. 10:25 Selected Geological Resources for the State of Ohio and Their Applications— <i>Steven Reutter</i> , Geology.	9:05 Leaders Speak Out About Leading: Does it Really Make a Difference?— <i>Jennifer Barber</i> , School of Communication. (Co-authors: <i>Melissa Adams</i> , <i>Mili Banerjee</i> , <i>James Durbin</i> and <i>Salma Benhaida</i>) 9:25 Traits and Communication Skills Among Leaders— <i>Melissa Adams</i> , School of Communication. 9:45 Leadership and Non-verbal Communication: A Current Update— <i>James Durbin</i> , School of Communication. 10:05 Leading with Power and Influence: Rethinking the Leadership Grid— <i>Mili Banerjee</i> , School of Communication. 10:25 Leaders Speak Out about Intercultural and Gender Issues— <i>Salma Benhaida</i> , School of Communication.

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Electrical Engineering 10:45-12:00	Chemistry 10:45-12:00	Mathematics 10:45-11:45	Community 10:45-12:00	Polymer Engineering 10:45-12:00	Communications 10:45-11:45	Art 10:45-12:00
<p>10:45 Performance Monitoring for Automated Robust Optical Fiber Networks Using Bit-stream Distribution Approximation—<i>Rami Haddad</i>, Electrical & Computer Engineering.</p> <p>11:05 Weakly Non-Linear Energy Harvesting with Non-Linear Coupling—<i>Angela Triplett</i>, Mechanical Engineering. (Co-author: <i>D. Dane Quinn</i>)</p> <p>11:25 Design and implementation of an Intelligent Balloon for Real-time Environment Monitoring—<i>Tom Vo</i>, Electrical & Computer Engineering. (Co-authors: <i>Matt Taschner, Tom Gambone and Antonio Samuel</i>)</p> <p>11:45 Study of Epoxy Crosslinked Aerogels using Ethanol as Solvent—<i>Alia Hindi</i>, Chemistry.</p>	<p>10:45 Atmospheric Ionization: A Comparison of Poly(styrene) Ionization Using a Library of Cations—<i>Sara Whitson</i>, Chemistry. (Co-author: <i>Chrys Wesdemiotis</i>)</p> <p>11:05 Lewis and Bronsted Acid-Base Chemistry of [PC12N]3, the Precursor of Chlorophosphazene Polymers—<i>Zin-Min Tun</i>, Chemistry. (Co-authors: <i>Amy J. Heston, Matthew J. Panzner, Doug Medvetz, Debasish Banerjee, Deepa Savant, Peter Rinaldi, Wily J. Youngs and Claire A. Tessier</i>)</p> <p>11:25 Gecko Inspired Self-cleaning Adhesives—<i>Sunny Sethi</i>, Polymer Science & Engineering.</p> <p>11:45 Thermal Transport in Interacting Chains of Carbon Atoms—<i>Dan Musser</i>, Theoretical & Applied Mathematics.</p>	<p>10:45 A Buckling Problem for Graphene Sheets—<i>Shawn Ryan</i>, Theoretical & Applied Mathematics.</p> <p>11:05 Mathematical Model and Experimental Results of Biofilm Growth—<i>David Nassar</i>, Theoretical & Applied Mathematics. (Co-authors: <i>Andrew E. Stine, Curtis B. Clemons, J. Patrick Wilber, Gerald W. Young and Amy Milsted</i>)</p> <p>11:25 An Integrated Approach to Economic Growth Modeling—<i>Joseph Tucker</i>, Theoretical & Applied Mathematics.</p>	<p>10:45 Experiencing Community Process: The Dynamics of Community Improvement in Selected Akron-Area Neighborhood Groups—<i>Maria Veronica Elias</i>, Public Administration and Urban Studies.</p> <p>11:05 Panic Strikes Highland Square—<i>Anna Roller</i>, Humanities.</p> <p>11:25 Narrowing the Gap between Online and Offline: An Analysis of Online Social Networking Sites and Bridging Social Capital—<i>Angela Adkins</i>, Sociology.</p> <p>11:45 The Communal Importance of the Roman Collegia—<i>Michael McCullough</i>, History.</p>	<p>10:45 A Novel Process for Dispersion of Carbon Nanotubes in Polymers—<i>Rishi Kumar</i>, Polymer Science & Engineering. (Co-authors: <i>Todd Lewis and A. I. Isayev</i>)</p> <p>11:05 Polymer Crosslinked Silica Aerogel Composites for Thermal Insulation—<i>Jason Randall</i>, Polymer Science & Engineering.</p> <p>11:25 Evaluation of Nanoparticulate Fillers for Development of Shape Memory Polyurethane Nanocomposites—<i>I. Sedat Gunes</i>, Polymer Science & Engineering.</p> <p>11:45 Ultrasonic Treatment of PEN/LCP Blends During Extrusion—<i>Kaan Gunes</i>, Polymer Science & Engineering. Co-author: <i>Avraam I. Isayev</i>)</p>	<p>10:45 Corporal Employment: Being Assaulted for your Passion—<i>Ryan Slone</i>, School of Communication.</p> <p>11:05 For My Eyes Only? The MySpace.com Crisis in Ohio Schools—<i>Melissa Adams</i>, School of Communication. (Co-author: <i>Stephanie Kirkpatrick</i>)</p> <p>11:25 In the Board we Trust: PR Crisis at The University of Akron—<i>Salma Benhaida</i>, School of Communication.</p>	<p>Design X Nine—<i>Janice Troutman, John Morrison, Dominic Caruso, Julia Hartman, Seth Trowbridge and Scott Rutan</i>, Myers School of Art, Design Department.</p> <p>Design For 24—<i>Janice Troutman and Todd Bertsch</i>, Myers School of Art, Design Department</p> <p>Electroplastiques—<i>Kirk Mueller and Nate Mueller</i>, Myers School of Art, Design Department.</p> <p>The Creation of Public Art Projects—<i>Chel-c Blackerby, Jeff “JD” Dumire, Mike Wohlwend, Eden Benton, Robert Hoppin and Mark Soppeland</i>.</p>

LUNCH BREAK UNTIL 1:20

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Room 308	Room 310	Room 312	Room 314	Room 316	Room 335
Literature/Literacy 1:20-2:40	Chemistry 1:20-2:40	Mechanical Engineering 1:20-2:40	Computer Science 1:20-2:40	Miscellaneous Social Sciences 1:20-2:20	Communications 1:20-2:40
<p>1:20 How Did the Fluency Development Lesson Impact the Literacy Development of 13 “At-Risk” First Grade Readers?—<i>Lynne Kulich</i>, Education.</p> <p>1:40 Beliefs and Instructional Practices of Culturally Relevant Educators: A Qualitative Case Study—<i>Nancy Varian</i>, Education.</p> <p>2:00 Odysseus the Sapphic Hero—<i>Adam Truelsch</i>, Classical Studies.</p>	<p>1:20 Inorganic Polymer Degradation: A Study of Poly(siloxane)s Fragmentation in the Gas Phase—<i>Alyson Leigh</i>, Chemistry. (Co-authors: <i>Claire A. Tessier</i> and <i>Chrys Wesdemiotis</i>)</p> <p>1:40 Understanding Fragility in Polymers—<i>Kumar Kunal</i>, Polymer Science & Engineering. (Co-authors: <i>Alexei P. Sokolov</i>, <i>Christopher G. Robertson</i> and <i>Sebastian Pawlus</i>)</p> <p>2:00 Analysis of Poly (styrene-co-allyl alcohol) using Mass Spectrometry—<i>Bethany Subel</i>, Chemistry. (Co-author: <i>Chrys Wesdemiotis</i>)</p> <p>2:20 Structural Analysis of PEG by ESI-QIT and MALDI-QToF—<i>Nilufer Solak</i>, Chemistry. (Co-author: <i>Chrys Wesdemiotis</i>)</p>	<p>1:20 Multi-Analyte Sorting using a Two-stage Microfabricated Dielectrophoretic Actuator—<i>Sheela Bhandarkar</i>, Mechanical Engineering. (Co-author: <i>Dr. Jiang Zhe</i>)</p> <p>1:40 A High Throughput Multiflexed Micro Coulter-Counter using Amplitude Modulation—<i>Ashish Jagtiani</i>, Mechanical Engineering. (Co-authors: <i>Joan Carletta</i>, <i>Jun Hu</i> and <i>Jiang Zhe</i>)</p> <p>2:00 3D-Pulsating Blood-Flow Modeling of Brain and Aortic Aneurysms—<i>Arun Puindi Ramu</i>, Mechanical Engineering. (Co-author: <i>Zhenpeng Qin</i>)</p> <p>2:20 Enhanced Mechanical Properties of Electrospun Poly(ϵ-caprolactone) Fibers—<i>Avinash Baji</i>, Mechanical Engineering. (Co-author: <i>Dr. Shing-Chung Wong</i>)</p>	<p>1:20 Efficient Modeling of Mechanical Lap Joints—<i>Jason Miller</i>, Mechanical Engineering. (Co-author: <i>D. Dane Quinn</i>)</p> <p>1:40 Numerical Modeling of Aerodynamics of Airfoils of Micro Air Vehicles in Gusty Environment—<i>Harish Gopalan</i>, Mechanical Engineering.</p> <p>2:00 A Parametric Analysis of the Effects of Porosity and an Extended Reservoir to the Performance of a Journal Bearing—<i>Joshua Johnston</i>, Theoretical & Applied Mathematics. (Co-authors: <i>Dr. M. J. Braun</i> and <i>Dr. G. W. Young</i>)</p> <p>2:20 Come! Compose and Simulate Conveyors!—<i>Branden Archer</i>, Electrical & Computer Engineering. (Co-author: <i>Kranthi K. Mamidisetty</i>)</p>	<p>1:20 Applying Social Marketing and Diffusion of Innovation Theories: An Analysis of the Marketing and Communication Activities of Performing Arts Organizations—<i>Susan Hunter</i>.</p> <p>1:40 Female Genital Mutilation in Africa: A Human Rights Issue—<i>Rosa Githiora</i>, Public Administration and Urban Studies. (Co-author: <i>Linda N. Githiora</i>)</p> <p>2:00 Individual Differences in Juror Decision-making: The Effect of Beliefs, Personality, Attitudes, and Knowledge in a Capital Trial—<i>Bryce Hruska</i>, Psychology.</p>	<p>1:20 Akron Metro Regional Transit Authority Needs Levy to Pass—<i>Joseph Stavole</i>, School of Communication.</p> <p>1:40 The Diocese of Cleveland Regroups its Fleet in Troubled Water—<i>Julie Hritz</i>, School of Communication.</p> <p>2:00 Lab Accident at Private School: A Case Study in Public Relations—<i>Sandra Wehmann</i>, School of Communication.</p> <p>2:20 Kling Street Crisis—<i>Nicole Gaitanos</i>, School of Communication.</p>