QUEST 2013 – A Forum for Student Scholarship Projects Organized by Sessions

8:30 - 9:30 - Session 1 - Posters (Biology) - Ohio Room

01		iquid Latex on the Degradation of Sheep Deoxyribonucleic Acid					
	1366	JM Guy, CS Annarumo					
		Faculty Sponsor: Heather E. Lorimer, Susan W. Clutter					
02		tion of secreted proteins in fungi and animals					
	1327	Stephanie Frazier					
		Faculty Sponsor: Xiangjia Min					
03	Flora of Noble	County, Ohio					
	1258	Alexandria Szakacs					
		Faculty Sponsor: Carl F. Chuey					
04	American Medi	ical Student Association (AMSA)					
	1393	Peter Stamos, Jonathan Guy, Nicole Hartman, Taylor Kress,					
		Mike Smith, Joelle Ballone					
		Faculty Sponsor: Michael T. Butcher					
05	Identification o	f a Possible Selenite Sensor Protein from Enterobacter sp.YSU					
	1403	Beatrice Rono					
		Faculty Sponsor: Jonathan J. Caguiat					
06	Partial DNA Sec	quence of a plasmid from Enterobacter sp. PC820					
	1249	Aaron Sweeney, Travis Denmeade					
		Faculty Sponsor: Jonathan J. Caguiat					
07	Identification of Metal Resistance Genes in a Multimetal Resistant Strain,						
	Stenotrophomonas maltophilia ORO2 (S. maltophilia O2)						
	1290	Devon Archinal, Jessica Casterline, Dan O'Neal, Gina Milick					
		Faculty Sponsor: Jonathan J. Caguiat					
80	Genotypic and Phenotypic Analyses of a Spore Color Penicillium marneffei Mutant						
	generated by A	grobacterium-tumefaciens Mediated Transformation					
	1298	Evelyn Akpadock					
		Faculty Sponsors: Chester R. Cooper, Aksarakorn Kummasook, Nongnuch					
		Vanittanakom					
09	Role of the yak	1 gene in Morphogenesis and Stress response in Penicillium marneffei					
	1301	Sumanun Suwunnakorn					
		Faculty Sponsors: C. R. Cooper, A. Kummasook, N. Vanittanakom					
10	Affects of qa-1	F on Neurospora crassa Proteomic Response to Quinic Acid					
	_	Dana Tirabassi					
		Faculty Sponsors: David K. Asch, Gary Walker					
11	Methods to An	alyze Agrobacterium-generated Mutants of Penicillium Marneffei					
		Sarah Eisnaugle, Joshua Engle					
		Faculty Sponsor: Chester R. Cooper					
12	Protein profiles	of Neurospora crassa wild type and nit-2 mutant under varying levels					
	of nitrogen availability.						
		Michael Werry					
		Faculty Sponsors: David K. Asch, Gary Walker					
13	Proteomic/ fun	ctional genomic analysis of myogenesis; from stem cell to functional					
-	contractile my	, , , , , , , , , , , , , , , , , , , ,					
		Robert Giles					
		Faculty Sponsor: Gary R. Walker					
		, , , , , , , , , , , , , , , , , , , ,					

Proteomic Analysis of Butanol Fermentation from Concentrated Wood Hydrolysate

Reveal Clues for the Optimization of the Fermentative Process

14

1397 Robert DeVita, Estee George, April Chestnut, Aaron Mrvelj, Nina Lenkey, Nicola Accordino

Faculty Sponsor: Gary R. Walker

15 Mathematical Modeling of Clostridium beijerinckii Fermentation Pathway and Proteomic Analysis of Gene Expression

1303 Robert DeVita, Estee George, Sarah Ritchey

Faculty Sponsor: Gary R. Walker

The Utilization of Multipotent Mesenchymal Stromal Cell Transplantations to Improve Fascial Repair

1386 Andre Bown

Faculty Sponsor: Diana L. Fagan

17 Development of Novel Method for Identification of B-cells Producing anti-

Staphylococcus aureus Type 5 and 8 Capsular Antibodies

1275 Rahul Gaurav

Faculty Sponsor: Diana L. Fagan

The Development of Monoclonal Antibodies from clone ANT8B1G1 against Staphylococcus aureus

1337 Manveen Singh

Faculty Sponsor: Diana L. Fagan

19 Identification of Oxidized Amino Acid Residues in Hen Egg White Lysozyme Treated with a Copper (II)/Hydrogen Peroxide Metal-Catalyzed Oxidation System

1086 Cory Muraco

Faculty Sponsor: Michael A. Serra

20 Disparities of fruit and vegetable access between inner-city vs suburbs

1334 Alison Kovach

Faculty Sponsor: Richard L. Rogers

8:30 - 10:00 - Session 2 - Oral Presentations

Applied Behavior Analysis - Jones

O1 Differential Reinforcement of Other Behavior in the Treatment of Inappropriate Loud Vocalizations

1183 Zachary F. Vargo

Faculty Sponsor: Rocio Rosales

The Use of Non-Contingent Reinforcement to Decrease the Rate of Disruptive Behavior and Increase the Frequency of Reinforcement Delivery

1169 Anthony J. Miller

Faculty Sponsor: Rocio Rosales

03 Manding for Information Maintained by Social Reinforcement: A Comparison of Prompting Procedures

1263 Matthew Swerdan, Z. Vargo, L. Neidlinger

Faculty Sponsor: Rocio Rosales

O4 A Comparison of Procedures to Establish Emergent Intraverbals in Children with Autism Spectrum Disorders

1142 Mary Vallinger, Amanda Gillen

Faculty Sponsor: Rocio Rosales

The relationship between methodology reporting and citation rates in nociception in research articles.

1319 James Hamilton

Faculty Sponsors: Melanie Shoup-Knox, Jill Tall

O6 Evaluation of a Treatment Package to Decrease Aggressive and Disruptive Behavior in a Classroom Setting

1387 Vilmary Placeres

Faculty Sponsor: Rocio Rosales

Communication Studies - Coffelt

Objectification Theory and The Media Portrayal of Female Athlete: A Look At The Consequences

1333 Sarah Scheidemantel

Faculty Sponsor: Rebecca M. Curnalia

02 Image Repair Theory: The right way and the wrong way

1229 Shelby Cunningham

Faculty Sponsor: Rebecca M. Curnalia

03 Until debt do us part

1389 Amanda Franklin

Faculty Sponsor: Rebecca M. Curnalia

04 Leadership styles and ethics of modern women in the workforce: Are the stereotypes deserved?

1383 Elyse Gessler

Faculty Sponsor: Rebecca M. Curnalia

05 The Theory of Planned Behavior: Behind prison walls

1163 Margaret E. Gratz

Faculty Sponsor: Rebecca M. Curnalia

Computer Science I - Bresnahan

O1 Sentiment Classification of Movie Reviews Using Naive Bayes and Support Vector Machines

1351 Novi Trisjaniar

Faculty Sponsor: Alina Lazar

02 Data Cleansing: Importance and Processes

1405 Prasanna Bhattarai

Faculty Sponsor: Alina Lazar

03 Comparison of Fast Learning Large Scale Multi-Class Classification

1209 Aleksandar Jovanovich

Faculty Sponsor: Alina Lazar

04 Multi-Cyclic Training Regimens in GraphChi

1185 James Curnalia

Faculty Sponsor: Alina Lazar

05 K-means Algorithm using Different Distance Measures

1412 Sravan Kumar Banka, Akhilesh Rao Meesala

Faculty Sponsor: Alina Lazar

Health & Human Services - Humphrey

01 Leniency in Vaccination Requirements Results in Risks to the Population

1328 Ann Fiest

Faculty Sponsor: Richard L. Rogers

02 Mental Health Service Delivery in Northeast Ohio: Assessment of Current Resources and Suggestions for Improved Services

1003 Brittany Yeager

Faculty Sponsor: Ronald V. Shaklee

03 Effectiveness of Asthma Education Program in Grades 1-6

1353 Sarah Navarra

Faculty Sponsor: Mary L. Yacovone

O4 Income-Related Disparities in Primary Care: Are the impoverished causing undue stress on Emergency Departments?

	1313 Matthew Ozanich
	Faculty Sponsor: Richard L. Rogers
05	Proposed Physiological Mechanisms and Efficacy of Myofascial Release Therapy
	1140 Joe Musial
	Faculty Sponsor: Frank J. Bosso
06	The Psychoneuroimmunological Response Influence on Cancer Prognosis
	1002 Casey Fitch
	Faculty Sponsor: Amy L. Weaver
	<u>– Hynes (2068)</u>
01	A Look at the Circles of Apollonius using Complex Analysis
	1173 Mitchell Hamidi
	Faculty Sponsor: Thomas D. Smotzer
02	Probability of the Heights of Triangles
	1078 Frederick Sommers
00	Faculty Sponsor: Thomas D. Smotzer
03	Exploring Check Digit Error Correction
	1396 Ashley Orr
0.4	Faculty Sponsor: Nathan P. Ritchey
04	Rubik's Cube Android App
	1194 Jarrett Scacchetti
٥٢	Faculty Sponsor: Nathan P. Ritchey
05	The Kidd Theory 1352 Matthew William Kidd
06	Faculty Sponsor: Regina M. Rees YSU's Deficiency of Undergraduate Research in STEM
00	1228 Shawn Doyle
	Faculty Sponsor: Deborah Lowry
	racarty Sponsor. Deboran Lowry
0.40	10:40 – Session 3 – Posters (Computer Science / Engineering) – Ohio Room
3. 4 0 -	10.40 – Session 3 – Posters (Computer Science / Engineering) – Onio Room
01	Parity Calculation in Residue Number Systems
01	1410 William A. Hill
	Faculty Sponsor: Robert W. Kramer
02	Accelerated Learning: Defensive Driving Simulation
02	1244 Brandi Stillman, Joe Costello, Sruthi Bandaruballi
	Faculty Sponsor: Abdurrahman Arslanyilmaz
03	Data Mining Techniques: Data Visualization
03	1320 Joseph Costello
	Faculty Sponsor: Alina Lazar
04	Life Expectancy as an Application of Individual Based Modeling
01	1345 Joshua Hodges
05	Ranking College Basketball Teams Using the Google PageRank Algorithm
03	1344 Joseph Stanek
	Faculty Sponsor: Padraic W. Taylor
06	Ranking the 2012 NFL Teams
00	1138 James Munyon, Drew Saluga, Michael Seifert, Tim Shreeve, Bill Seidle
	Faculty Sponsor: Thomas P. Wakefield
07	The CATCHER - A System To Capture Video Evidence of Mailbox Vandalism
	1262 Rob Kean

Faculty Sponsor: Salvatore R. Pansino

Automated Beverage Dispenser

80

	12/0	kyle Faykus, Phil Shuback
		Faculty Sponsor: Jalal Jalali
09	Choosing the E	Best Material for an SUV Driveshaft
	1144	Kevin Ball, Mike Kaldy, Dakota Joy, Justin Getz, David Cooper
		Faculty Sponsor: Richard G. Goldthwait
10	Development o	of a Flow Sensor Based on a Fuzzy Shape Memory Alloy
	1294	Eric Schubert
		Faculty Sponsor: Pedro Cortes
11	Design of a Co	nveyor Belt System with Bolt Removal Capability
	1238	Matthew Lehman, Christopher Scheckelhoff James Schuster Michael
		Stanley
		Faculty Sponsor: Hazel Marie
12	Design of a De	bris Removal Device for Automated Guided Vehicles
	1237	Brandon Mirto, Benjamin Tadla, Caitlyn Rodomsky, Lauren Rodomsky,
		Patrick Bollinger
		Faculty Sponsor: Hazel Marie
13	Effect of Aeroc	lynamic Drag Forces on Fuel Consumption for Sport Cars
	1223	James Limperos, Ashley Martof, Jennifer McAnallen
		Faculty Sponsor: Yogendra M. Panta
14	Time study of i	production in the Miller Fall protection production line
		Jonathan Kelly, Tyrone Graham
		Faculty Sponsor: Martin Cala
15	Annlyina Indus	trial Process Analysis and Improvement Techniques at Fireline Inc.
		Danielle Strong, Ashley Martof
		Faculty Sponsor: Martin Cala
16	Time and Moti	ion Study at Gasser Chair
10		Ansel Morsillo, Seth Morrow
	1130	Faculty Sponsor: Martin Cala
17	Video analysis	work measurement and quality improvement at Brainard Rivet.
_,		Edward Mullan, Thomas R Zebrasky, Brian Boback
	1007	Faculty Sponsor: Martin Cala
18	Evaluation of (Quality Testing Procedure at Altronic, Inc.
10	•	Matthew Azam
	1004	Faculty Sponsor: Martin Cala
19	Work measure	ment at Toys R Us with a focus on analyzing productivity and work
13	safety improve	, , , , , , , , , , , , , , , , , , , ,
		Derek Higham, Shaun Streeter
	13//	Faculty Sponsor: Martin Cala
		racuity Sponsor. Wartin Cala
10:30	– 12:00 – Sessi	ion 4 – Oral Presentations
Chemi	stry & Chemical	Engineering - Bresnahan
01	Synthesis and	Characterization of CeO2-TiO2 Nanotubes
	1342	Varun Sama
		Faculty Sponsor: Ruigang Wang
02	Effect of Hydro	gen Sulfide in Landfill Gas on Anode Poisoning of Solid Oxide Fuel Cells
	1321	Feroze Khan
		Faculty Sponsor: Clovis A. Linkous
03	Energy Harves	ting Using ZnO-CNTs Fuzzy Fibers
		Jessie Keeler

Faculty Sponsor: Pedro Cortes
Heat Exchanger Network Design Using Pinch Analysis in Excel

1312 Shawn Bair, Tony Massaro

04

Faculty Sponsor: Douglas M. Price

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01 An Inner Product Space

1077 Robert Wyant

Faculty Sponsor: Thomas D. Smotzer

The Power of Technology in the Post-Secondary Classroom

973 Chelsea Carbonell

Faculty Sponsor: June Ladd

O3 Effects of Technology-Enhanced Science Curriculum on Learning and Engagement for Students with Autism

1199 Elizabeth Johnson, Lisa Ridgley

Faculty Sponsor: Darlene Unger

04 Labeling Children with Disabilities: A Conflict between the Insensitive Stigmas and Educational Necessities

1413 Marissa A. Mraz

05 The Effect of Part-Time Employment on Academic Success

1050 Jessica Loar

Faculty Sponsor: Tacibaht Turel

Interpersonal Relations - Humphrey

01 The impact of stressors on nontraditional college students' college environment

1205 TaNisha Hines

Faculty Sponsor: Priscilla N. Gitimu

02 Health Status and Wellness of Adults Over 50

1423 Cynthia M. Moore

Faculty Sponsor: Priscilla N. Gitimu

03 Strategies to maintain a satisfactory long-distance romantic relationship

1162 Brianna Vlaiku

Faculty Sponsor: Rebecca M. Curnalia

04 Media Portrayal of Body Image and its Effects on Viewers

1178 Nicole Pachol

Faculty Sponsor: Rebecca M. Curnalia

05 Relational Maintenance Strategies in Forming Online Romantic Relationships

1174 Lindsay Bowker

Faculty Sponsor: Rebecca M. Curnalia

06 Factors contributing to satisfaction in sexual relationships.

1166 Nicole Balog

Mechanical Engineering – James Gallery

01 Anti-Ram Vehicle Barrier

1041 Teresa McKinney, Justen Vrabel, Alex Amendolea, Ryan Moore, Bryan Zilka

Faculty Sponsor: Elvin B. Shields

02 Anti-Ram Vehicle Barrier by Team Colossus

1061 Massey Fowler, Lauren Jancay, Joe Procick,

Tim Daugherty, Travis Keen

Faculty Sponsor: Elvin B. Shields

03 Anti-Ram Vehicle Barrier by Team Adine

1018 Adam Bondor, William Slater, Martin Holl, Tim Bellovary, Alexey

Kuprienko

Faculty Sponsor: Elvin B. Shields

04 Anti-Ram Vehicle Barrier

1011 Anthony Davis, David Carmendy, Adam Harrold, Brandon Spithaler,

Edward McCarty

Faculty Sponsor: Elvin B. Shields

05 Sea Horse Farm

1227 Ken Minteer, Lizzy Gibbs

Faculty Sponsor: Brian D. Vuksanovich

06 Additive Manufacturing- The Future

1310 Steven Opperman, Nick Carney

Politics, Business, & Crime – Hynes (2068)

01 Declining Internet Freedom in Turkey: Turkish Nationalism and Freedom of Expression

1211 Jessica Valsi

Faculty Sponsor: Paul A. Sracic

02 Campaign Ads and Conventions: The 2012 Political Cycle

1180 Melissa Wasser

Faculty Sponsor: Paul A. Sracic

03 Tax Incentives to Save for Retirement

1316 Stephanie DelliGatti

Faculty Sponsor: Roy Wayne Counts

04 The Effect of Cultural Differences on Fraudulent Financial Reporting

1287 Evan Weaks

Faculty Sponsor: Karin A. Petruska

05 Climate And The Effect It Has On Homicide Rates in the United States

1347 Chelsea Stafford

Faculty Sponsor: John M. Hazy

06 Perceptions of Police Officer Ethics

1246 Kevin Day

Faculty Sponsor: Richard L. Rogers

Psychology I - Jones

Digging at the Roots of Pain: A Comparison of Projective Tests Using Mental Imagery to Determine Age of Trauma

1332 Jason Berg

Faculty Sponsor: Karen Giorgetti

02 The Struggle For Academic Success: The Relationship Between Physical Activity,

Depression, Self-Esteem, and GPA

1266 Dominique Bonamase

Faculty Sponsor: Karen Giorgetti

The Effects of Divorce on Children's Peer Relationships.

1247 Audra Jones

Faculty Sponsor: Molly Jameson Cox

04 Demographic Factors Associated with Aggressive Behavior in Rural and Urban

Elementary Students

1373 Brittany Shea

Faculty Sponsor: Molly Jameson Cox

Does the type of drug used influence people's liking for an individual? An examination of the halo effect in substance use.

1293 Paula Long

Faculty Sponsor: Molly Jameson Cox

06 Looking Back and Forward: An Academic and Cross Cultural Experience

1308 Heather Miller

Faculty Sponsor: Ron Shaklee

10:50 – 11:50 – Session 5 – Posters (Social / Environmental Sciences) – Ohio Room

01	Theft Crimes: V	What affects Theft Crime Rates?
	1248	Marissa Hundelt
		Faculty Sponsor: John M. Hazy
02	Canfield Jail Gl	assware Analysis
	1323	Alexa Kensinger
		Faculty Sponsor: Matt E. O'Mansky
03	Personal Bankı	ruptcy: Reasons and Causations
	1065	Adrianna Ciotola, James Lingo, Matthew French, Andrea Barber
		Faculty Sponsor: Rosemary D'Apolito
04	A Research Pro	posal of Religious Fundamentalism in Relation to Racism
	1072	Maggie Noday, Tyler Bacon, Ashley Deskins, Mike Warner
		Faculty Sponsor: Rosemary D'Apolito
05	What is Anthro	ppology?: A Pilot Study
	1188	Amanda Bright, Tricia Bright, Amanda Pishotti
		Faculty Sponsor: Loren R. Lease
06	An analysis of	the discrepancy between funding for Anthropology programs and STEM
	related progra	ms: An empirical approach to determining what causes this discrepancy
	1317	Crystal Gianetti, Cara Yacovone
		Faculty Sponsor: Loren R. Lease
07	College Studen	ts and Anxiety: Are Certified Pet Therapy Dogs the Answer?
	1071	Ruth A. Madden
		Faculty Sponsor: Henrique Alrim
80	Should We Kno	w? A Populace Perspective on Consuming Non-Labeled Genetically
	Modified Orga	nisms
	1343	Danielle Wells
		Faculty Sponsor: Joseph P. Lyons
10	The Early Lear	ning Harvest: The Relationship between Teacher Educational Levels and
	Child Outcome	25
	1054	Kim Zippie
		Faculty Sponsor: Karen H. Larwin
11	Deciphering Sa	n Salvadora's Storm History: The Effects of Vegetation and Coastal
	Morphology or	n Storm Deposition in the Bahamas
	1324	Lauren Tadla, Mike Evans, Sarah Perrine
		Faculty Sponsor: Christopher R. Mattheus
12	QUANTIFYING	SEDIMENT YIELD OF THE MILL CREEK WATERSHED, YOUNGSTOWN, OHIO
	1226	Michael Norton
		Faculty Sponsor: Christopher R. Mattheus
13	Evaluating Lon	g-term Effects of Destructive Flooding on In-stream Riparian
	Characteristics	and Macroinvertebrate Abundances in Low Order Streams
	1314	EmmaLeigh Given
		Faculty Sponsor: Thomas P. Diggins
14	Identifying Epi	sodic Storm Events from the Presence and Distribution of Foraminifera
	within the Coa	stal Ponds of San Salvador, Bahamas
	1059	Kaitlyn Krossman, Briana Camaret
		Faculty Sponsor: Christopher R. Mattheus
15	Total and Solui	ble Metal Analysis of Residential and Public Biota, Soil, and Water
	Samples Surro	unding Little Blue Run Lake a Fly Ash Waste Pond

1391 Sarah Springston, Matthew Baldarelli

Faculty Sponsor: Felicia P. Armstrong

Monitoring Heavy Metal Particulates in the Breathing Zone Near a Hazardous Waste Incinerator

> 1375 Kaylin Camp, Patrick Bornemiss, Rae'ven Crum, Vincent Pilolli Faculty Sponsor: Alan M. Jacobs

17 Analysis of Combined Sewer Overflow Contributions to Coliform Density and Total Suspended Solids in the Mahoning River

1167 Alvin C. Lu

Faculty Sponsor: Carl G. Johnston

18 Urban Storm Water Quality Research

1414 Ryan Smith, Patrick Maple

Faculty Sponsor: Felicia P. Armstrong

19 Developing a Complete Storm Record for San Salvador Island, Bahamas: A Multiproxy Analysis of Pond Sediments

1007 Joshua Fowler, Chad Marsey

Faculty Sponsor: Christopher R. Mattheus

20 Using water quality parameters to evaluate the effectiveness of a constructed wetland

1299 Simone Tonkin, Eric Zamary

Faculty Sponsor: Colleen E. McLean

12:00 – 1:15 - Luncheon & Keynote Speaker – Chestnut Room

David W. Ball, Ph.D.

Interim Chair and Professor

Department of Chemistry, Cleveland State University

"Science, Skepticism, and the Benefits of Random Knowledge"

1:30 – 2:30 – Session 6 – Posters (Chemistry) – Ohio Room

01 Economic and Process Analysis of a Model to Convert Biomass into Biofuel

1241 Scott Brand, Brian Crawford

Faculty Sponsor: Douglas M. Price

02 SUAVe: Solar Unmanned Aerial Vehicle

1255 Tyler Vitullo, Christopher Smaldino Nathan Jones Kurt Shambaugh Kevin Marstellar

Faculty Sponsor: Jalal Jalali

03 Large Oscillations in Suspension Bridges: Why Resonance May Not Deserve the Blame

1339 James Lancaster, Katie Kosela, Kevin McLane, Matthew Pilch, Douglas

Thomas, Joseph Gantz

Faculty Sponsor: Padraic W. Taylor

04 FunSecKB2: A Knowledgebase of Subcellular Locations of Fungal Proteins

1277 John Meinken, Gengkon Lum

Faculty Sponsor: Xiangjia Min

05 Distributed Computing of Mathematics with Raspberry Pis

1267 Cody Rigney, Mike Weaver, Ashley Wagner, Nick Popovich, Sasha Monroe

Faculty Sponsor: Gary L. Stanek

06 Ballistic Velocity Testing of Composites and Fiber-Metal Laminates

1202 Sean Gabriel, Nicholas Ragan, Eric Schubert, Samantha Tharp, Paul Jones Faculty Sponsor: Pedro Cortes

07 Using a laser for spectroscopic determination of the effect of a buffer gas on the absorption lines of Iodine

1371 Connor Hetzel, Chris DeChellis, Ian Schantz, Kyle Spickler, Michael Baker

		Faculty Sponsor: James H. Andrews
80	Hydrothermal	Synthesis and Reactivity Characterization of Ceria Nanoparticles
	1355	Randi Dangerfield, Samuel I. Mutinda
		Faculty Sponsor: Ruigang Wang
09	C-H Insertion o	of Rhodium-stabilized Carbenoids on Furnaoses as a Route to Chiral
	Natural Produc	ct Synthesis
	1116	Caleb Tatebe, Joseph J. Mihaly, Kwaku Kyei-Baffour
		Faculty Sponsor: Peter Norris
10	o-Nitrobenzen	esulfonyl Azide in the Conversion of Alcohols into Alkyl Azides
	1121	Omadee S. Curry, Angela Kwarko, Heather Jasmina Folkwein
		Faculty Sponsor: Peter Norris
11	Autoprotolysis	in the Solid State? Or is it just Water?
	1281	Brian Stahl, Jennifer Miller, Matthew LaLama
		Faculty Sponsor: Matthias Zeller
12	Comparative K	(inetic Analysis of Escherichia coli eta -Glucosidase BglX and Its Mutants
	E293Q and D2	87G
	1264	Jon Dean, Christopher Morgan
		Faculty Sponsor: Nina V. Stourman
13	Monoclonal Ar	ntibody Response to Staphylococcus aureus ANT8C3
	1346	Aaiza Malik
		Faculty Sponsor: Diana L. Fagan
14	-	dole Phosphonate Regioisomers
	1350	David Werner
		Faculty Sponsor: John A. Jackson
15	Synthesis and (Ligands	Characterization of Copper(I) Complexes with Thiourea and Related
	1196	Ruthairat Nimthong, Chaveng Pakawatchai, Yupa
		Wattanakanjana
_		Faculty Sponsor: Matthias Zeller
16		S from Landfill gas using Solar Regenerable Adsorbents
	1272	Sreevani Kalapala, Travis Q. Battiest
47	5	Faculty Sponsor: Clovis A. Linkous
17		of Structure and Properties of an Unknown Al-Si-Ti alloy
	1261	Kristen J. Hernandez, Virgil C. Solomon
18	Correlation has	Faculty Sponsor: Matthias Zeller tween Porosity of Activated Charcoal and Its Ability to Adsorb Caffeine
10	1216	Dylan Thomas, Rachel M. Centofanti, Jamielynn E. Doyle, Jason
	1210	Gilmore, Sahara Stauffer
		Faculty Sponsor: Nina V. Stourman
19	Testing of Clon	nes RMT8C1, ANT8C3, ANT8B1G1, BNT5D4, TNT5A4, and ANT8B1 to
		Monoclonal Antibody Response to Staphylococcus aureus Type 3
	1404	Kripa Balaram, Kyle Reilly
		Faculty Sponsor: Diana L. Fagan
20	Harsh Sound N	Neasurement, Attenuation and Suppression
		Dom Sikora, Jason Huey, Nico Minniti, Zach Abraham, Heather Siembieda
		Faculty Sponsor: John H. George

1:30 - 3:00 - Session 7 - Oral Presentations

Biology I – Humhprey

01 INCIDENCE OF INVASIVE PLANT SPECIES IN WATER LEVEL MANAGED AND UNMANAGED WETLANDS IN NORTHERN OHIO.

1207 Scott Denham II

	Faculty Sponsor: John D. Usis
02	White-tailed Deer (Odocioleus virginianus) Herbivory in Riparian Zones: A Preference Study
	1407 Danielle Mutchler
	Faculty Sponsor: John D. Usis
03	Predicting Eastern Bluebird reproductive success using local and landscape variables: a
	GIS approach
	1204 Amanda L. Ruozzo, Stacey C. Pavlik
	Faculty Sponsor: Ian J. Renne
04	The Putative Role of Learning and Genetics in Host Range Shift in Manduca sexta
	(Lepidoptera: Sphingidae)
	1394 Angela M. Rovnyak
	Faculty Sponsor: Ian J. Renne
05	2012 Archaeological Investigation of the Coastline of North Storr's Lake
	1368 Steven Campbell, Michael Flowers, Chris Nichols
Comp	outer Sciences II - Bresnahan
01	Using Isolated Vowel Sounds for Classification of Mild Traumatic Brain Injury
	1152 Michael Falcone, Nikhil Yadav, Christian Poellabauer, Patrick Flynn
	Faculty Sponsor: Bonita Sharif
02	Assessing SeeIT 3D, a Software Visualization Tool
	1206 Grace H. Jetty
	Faculty Sponsor: Bonita Sharif
03	An Eye-tracking Study Assessing the Comprehension of C++ and Python Source Code
	1112 Rachel Turner, Michael Falcone
	Faculty Sponsor: Bonita Sharif, Alina Lazar
04	Assessing the Comprehension of UML Class Diagrams in Onion Notation
	1134 Michael Falcone
0.5	Faculty Sponsor: Bonita Sharif
05	Discrete Mathematical Applications to the Calendar
	1382 Camron Bagheri
	Faculty Sponsor: Nathan P. Ritchey
	rical Engineering I - Coffelt
01	Solar Barbie
	1127 Kenneth Burton, Mathew Biedka, Dustin Bowman Faculty Sponsor: Salvatore R. Pansino
02	Applications of Photovoltaic Cells: Solar Laser
02	
	1357 Larry Frangos, Joe Cassata, Mike Robison, Nicholas Sirianni, Kyle Skiba, Joshua Welsh
	Faculty Sponsor: Salvatore R. Pansino
03	Creation of the Sun's Solar Energy
	1124 Drew Duraney, Janette Cross, Derek Dowdell, Sean Lynch
	Faculty Sponsor: Salvatore R. Pansino
04	From Panel to Plug
	1131 David Berry, Tom Hornung, Jeff Wormley, Patrick Mullally
0-	Faculty Sponsor: Salvatore R. Pansino
05	The Evolution of the Battery
	1132 Adam Smith, Thomas Bakalar, Marcell Vitello
06	Faculty Sponsor: Salvatore R. Pansino Energy Distribution using Smart Grid
UU	Energy Distribution using Smart Grid

1093 Yonatan Tadesse, Mike Currao, Josh Gilmore, Tyler Goodwin, Ryan

Hicks, Jacob Tibbits

Faculty Sponsor: Salvatore R. Pansino

History – Hynes (2068)

01 Marring a Rose: How Dramatic Works and Artistic Renderings Have Annihilated Richard III

1068 Brittany Trask

Faculty Sponsor: Eleanor A. Congdon

02 Los Angeles Riots change the future of the Los Angeles Police Department

1006 Chelsea Reed

Faculty Sponsor: Fred W. Viehe

03 Charter Schools: Great Solution or Alarming Failure?

974 Ryan DiPietro

Faculty Sponsor: Fred W. Viehe

O4 The Road that Ends in Water: A History of the Erie Extension Canal and Clarksville, Pennsylvania

971 Lisa Garofali

Faculty Sponsor: Fred W. Viehe

05 Privateers, Pirates and Smugglers Colonial Rays of Light

1079 Adam Senczyszak

Faculty Sponsor: Fred W. Viehe

06 Women's Suffrage: A Collective Endeavor

972 Heidi Wagner

Faculty Sponsor: Fred W. Viehe

Mechanical Engineering II - James Gallery

01 Design of Hood Latch and Scrap Chute

980 Jason Reiner, Kent Cunningham, Dong Honggan, Clay Reakes, Ray

Hudran

Faculty Sponsor: Elvin B. Shields

02 Pneumatic Automated Hopper

994 Brock Elsea, Amanda Cox, Justin Seguin, Angelo Pelini

Faculty Sponsor: Elvin B. Shields

03 Design of Rocker Arm Style Resistance Spot Welder

978 Joseph Reedy, Samantha Rovnak

Faculty Sponsor: Elvin B. Shields

04 FLASH WELDING: BANDSAW BLADE MANUFACTURING

989 Michelle Gbur, Elliott Smith, Robert Dean

Faculty Sponsor: Elvin B. Shields

05 Sand core packaging/transportation rack

981 Bronson Lamoncha, Brian Carey, Kevin Siembieda, Richard Thimons,

and Ryan Wayslaw

Faculty Sponsor: Elvin B. Shields

06 Automated Taping Mechanisms

986 Adam Geiger, Thomas Hartman, Brittany Soroka

Faculty Sponsor: Elvin B. Shields

Psychology II - Jones

01 Individual Differences in Emotion and Attachment

1219 Samantha Nesnidol

Faculty Sponsor: Julie B. Boron

02 Effects of Thought Speed and Affect on Risk Taking Behavior

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Faculty Sponsor: Frank R. Ragozzine

03 Differences in Facial Expression and Perceived Gaze Direction

1384 Stephanie Sedall

Faculty Sponsor: Frank R. Ragozzine

04 Warm and Cold: Priming Effects of Red and Blue on Temperature-Related Words

1193 Sean Haughey

Faculty Sponsor: Frank R. Ragozzine

2:40-3:40 - Session 8 - Posters (Health & Human Services) - Ohio Room

01 Police officer hiring and past substance abuse history.

1338 Jonathan Silverman

Faculty Sponsor: John M. Hazy

02 Unemployment and City Theft Rate

1278 Samantha Burton, Kegan Brady

Faculty Sponsor: John M. Hazy

03 A Closer Look at United States Cities

1231 Crystal Doyle

Faculty Sponsor: John M. Hazy

Validity of Capnography to Diagnose Asthma, COPD, or PE in Patients Presenting to Emergency Department with Acute Dyspnea

1271 Amanda Lencyk

Faculty Sponsor: Valerie M. O'Dell

05 The Impact of a Corporate Sponsored Wellness Program on Employee Overall Health

1260 Bobbi Jo Given

Faculty Sponsor: Richard L. Rogers

06 Criminal Parental Influence on Juveniles

1376 Lindsay Spiker

Faculty Sponsor: Richard L. Rogers

07 Homicide: A Tale of Four Cities

1360 Trenton Daily, William Droste

Faculty Sponsor: John M. Hazy

08 Auto Theft

1340 Kenneth McLaughlin II

Faculty Sponsor: John M. Hazy

09 BOOKING AMONG SURVEYED INDIVIDUALS: INFLUENCES OF DRUGS AND DEMOGRAPHICS

1388 Kristin Helle

Faculty Sponsor: Richard L. Rogers

10 The Influence of Socio-economic Conditions and the Diagnosis of Diabetes

1240 Lisa Foley

Faculty Sponsor: Richard L. Rogers

11 The Relationship Among Nutrition Knowledge, Barriers to Healthy Eating and Body Mass Index

1200 Jennifer McConnell

Faculty Sponsor: Joseph P. Lyons

12 Improving the Development of Quality Nursing Clinical Judgment

1175 Ben Roberts

Faculty Sponsor: Amy L. Weaver

Prevalence of asthma and its correlation to socioeconomic standing, comparing level of income, unemployment and geographical zone

1417 Kelly L. Colwell

Faculty Sponsor: Richard L. Rogers

14 Knowledge and Perception of Eating Disorders on YSU's campus

1051 Alexis Allen, Aaron Baker, Gabrielle Belcastro, Heidi Buck, Sharon

DeAngelo, Patti Massery, Diane Vodhanel

Faculty Sponsor: Zara C. Rowlands

The Use of High-Intensity Inspiratory Muscle Training on Activities of Daily Living in an Individual with COPD: A Case Report.

1076 Jennifer Johnstone

Faculty Sponsor: Jane Wetzel

16 Cutting the Cheese on Parkinson's Disease: Using Smell Testing as An Early Indication of the Parkinson's Disease.

1057 Samuel Gindlesberger

Faculty Sponsor: Jill M. Tall

17 The Effects of Organized Teaching and Readmission Rates

1050 Tina Femia

Faculty Sponsor: Susan Lisko

18 Short Term Study in Mexico: Nursing Students' Lived Experience

1160 Rachel Harbarger, Karly Herman

Faculty Sponsor: Nancy H. Wagner

19 Bethanechol verses Clean Intermittent Catheterization: Long-Term Prevention of Autonomic Dysreflexia Reactions in Adult Male Patients Diagnosed with Neurogenic

1354 Stacy L. Burns

Faculty Sponsor: Susan A. Lisko

20 DON'T RUSH ME! Benefits of Informed Consent and Scheduled Birth

1114 Anna Marie Klejka

Faculty Sponsor: Kimberly A. Serroka

3:30 - 5:00 - Session 9 - Oral Presentations

Biology - Humphrey

Muscle architecture and out-force potential of the thoracic limb in the Eastern mole (Scalopus aquaticus)

1084 Jacob Rose

Faculty Sponsor: Michael T. Butcher

Fungal meningitis outbreak resulting from poor sanitation conditions of a drug compounding facility

1256 Jonathan M. Guy

Faculty Sponsor: Jill M. Tall

03 Myosin heavy chain (MHC) isoform expression in the prehensile tails of didelphid marsupials: functional differences between arboreal and terrestrial opossums

1381 Joseph E. Rupert

Faculty Sponsor: Michael T. Butcher

O4 Selenium Metabolism in S. maltophilia O2: Growth Modeling and Proteomics

1113 Mark Radetic, Joelle Ballone, Matthew Pierson

Faculty Sponsor: Jonathan J. Caguiat, George T. Yates

05 Effect of the Anti-Fibrotic Hormone Relaxin on Cardiac L-type Ca2+ Channels

1416 Zane Kalik, Guy Salama

Faculty Sponsor: Mark D. Womble

Communication & Language - Jones

01 Second Language Acquisition in the Deaf Community

1159 Abigail Margraff

Faculty Sponsor: Steven R. Brown

02 A Study of Primate Conservation Amongst College Students

1075 Jessica Morris, Andrew Skrinyer

Faculty Sponsor: Loren R. Lease

O3 Parent-child communication: How parents communicate to their children about sexual relations that later affects their future decisions

1380 Courtney Wolfcale

Faculty Sponsor: Rebecca M. Curnalia

04 Autism: Communication Disorders

1161 Pauline D. Ackerman

Faculty Sponsor: Rebecca M. Curnalia

Electrical Engineering II - Coffelt

01 Android Control System for 3D Printer

1158 James G. White, Levente Benedekfi, Yashar Nasseri

Faculty Sponsor: Jalal Jalali

02 Levitation Melting

1348 John McCabe

Faculty Sponsor: Jalal Jalali

03 Student RFID System

1083 Noah Weiser, Ronald Welther, Jonathan Groves

Faculty Sponsor: Jalal Jalali

04 Automated Temperature Regulating Resistive Heating System

1157 Matt Virostek, Jacob Kreatsoulas, Ece Isenbike Ozalp

Faculty Sponsor: Jalal Jalali

05 Magnetic Levitation

1408 Nicholas Brown, Nicolas Carbone Klara Chan

Faculty Sponsor: Jalal Jalali

06 Microstructural Characterization of Aluminum Wire Used in Battery Cables for

Electrical Vehicles

1053 Brandon Hart, Virgil C. Solomon

Faculty Sponsor: Virgil C. Solomon

Fine & Performing Arts - Bresnahan

01 It's a Grimm Grimm Life

1279 Lisa Perry

Faculty Sponsor: Dragana Crnjak

02 Contemporary Jazz Composition: Analysis, Creation, Realization, and Dissemination

1141 Kevin Snyder, Mark Higgins, Rob Chase

Faculty Sponsor: David S. Morgan

03 The Qualities of a Successful Conductor

1220 Scott Miller

Faculty Sponsor: Deborah Lowry

O4 The Ghost of Pretty Polly: Gender Stereotypes and Domestic Violence in the American Murder Ballad

1300 Karen Considine

Faculty Sponsor: Randall E. Goldberg

The Thrill of the Hunt: Exploring the Similarities of Shooting Animals with a Gun vs. Camera

1192 Breanna Gwirtz

Mechanical Engineering III – James Gallery

Physical, Chemical, Mechanical and Microstructural Characterization of Nanocarbon-Copper Alloy

1058 Jacob Cvetich

Faculty Sponsor: Virgil C. Solomon

02 Natural Gas Conversion of Internal Combustion Engine and Performance Analysis

983 Stephen Rakocy, Bret Bole, Adam Restifo, Aubrey Garland

Faculty Sponsor: Elvin B. Shields

03 Anti-Ram Vehicle Barrier By Mech. Commander

1036 Nick Somerfield, DJ Giammarco, Jed Chismar, Matt Callahan, Lauren

Hagerty

Faculty Sponsor: Elvin B. Shields

04 Vehicle Anti-Ram Barrier-CCR

1026 Brett Comeau, Matthew Lehman, Richard Smith, James Stiger, Robert

Virostek

Faculty Sponsor: Elvin B. Shields

05 Anti-Ram Vehicle Barrier by Team RAMJAM

1027 Mathhew English, AJ Grayson, Ryan White, John Henley, Michael Kaldy

Faculty Sponsor: Elvin B. Shields

Physics - Pugsley

01 Analysis of ZnO Films doped with Lithium and Phosphorus

1358 Michael McMaster

Faculty Sponsor: Tom N. Oder

02 Fabrication of Microlens Arrays on Layered Polymers

1418 Clayton Reakes

Faculty Sponsor: Tom N. Oder

03 Exploration of Laser Interference Lithography to Pattern Sub-Micron Structures

1335 Andrew Smith

Faculty Sponsor: Tom N. Oder

04 Investigation of ZnO as a Transparent Conductor for Solar Cell Application

1297 Scott Alfredo

Faculty Sponsor: Tom N. Oder

05 The Fabrication of Zinc Oxide Microlens Arrays

1370 Mark Freeman

Faculty Sponsor: Tom N. Oder