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UAB EXPO

An Exposition of Undergraduate Scholarship

April 23, 2010 12:00—5:00 pm

UAB Campus Recreation Center—Center Court & Heritage Hall

Artwork by Katherine Snider

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3rd Annual UAB Expo An Exposition of Undergraduate Scholarship

Welcome

The Office for Undergraduate Research is proud to welcome you to the 3rd annual UAB EXPO: An Exposition of Undergraduate Scholarship. This is the largest exhibition of undergraduate student work on UAB's campus. Approximately 180 undergraduates from more than three dozen majors will be participating in 143 presentations. Working with faculty, graduate students, peers, or individually, these talented and highly motivated students are an inspiration to the entire university. We are sure you will enjoy their hard work and achievements.

Best Regards,

Christopher W. Reaves, PhD Director, UAB Office for Undergraduate Research

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Schedule of Events

Events	Times	Location
Poster Session	12:15-2:15	Center Court/ Rec Center
Oral Presentations	1:00-5:00	Heritage Hall 104, 106, 121

Poster Presentations UAB Rec Center 12:15-2:15

1. Role of VPS34 in Embryonic Development

Divya Alapati

Mentor: Jianhua Zhang, Pathology, Div of Neuropathology

 The Effects of Temperature on growth on Antarctic algae Ascoseria mirabilis, Desmarestia anceps, Desmarestia antartica, and Geminocarpus geminatus in culture

Saji Azerf

Mentors: Charles D Amsler and Phillip Buculo, Biology

3. A Mutational Analysis of the Cricket Paralysis Virus Intergenic Region Internal Ribosome Entry Site

Dillon Birdwell

Mentor: Sunnie R Thompson, Microbiology

4. Bon Secour Loggerhead 2009

Matthew Burden

Mentor: Thane Wibbels, Biology

Screening for Estrogenic Compounds In The Effluent From The Five Mile Creek Wastewater Treatment Plant

Cheryl Carmack

Mentor: Robert A Angus, Biology

6. Characterization of Btbd9 Knockout Mice - A Potential Model of Restless Legs Syndrome

Mark DeAndrade

Mentor: Yuqing Li, Neurology

 Hypertension leads to an earlier onset of Alzheimer's Disease Kvm Do

Mentors: Inga Kadisha and Dr. Thomas van Groen, Cell Biology

8. Cloning and sequencing of purple violet pigment (PVP) biosynthetic genes from an Antarctic bacterium Ant5-2 (Work In Progress)

Amin Farhoomand

Mentor: Asim Kumar Bej, Biology

 Sex-ratio Predictions of Eretmochelys imbricata Nesting Beaches in Nicaragua and the Republic of Seychelles

Gaelle Gourmelon

Mentors: Thane Wibbels and Jenny Estes, Biology

10. Tear Component Interference in Cytometric Bead-Based Assay of IP-10

Nicole Guvette

Mentor: Roderick J Fullard, Vision Sciences

11. Emerging Relationship between Hedgehog Signaling and Primary Cilia in Breast Cancer Epithelia

Jason Hall

Mentor: Andra R Frost, Pathology

12. Neural Activation Patterns during Trace Conditioning (Work In Progress)

Abhishek Haritha

Mentor: David C Knight, Psychology

13. Evaluating Sand Temperatures of Loggerhead Nesting Beaches on the U.S. Southeast Coast

Lydia Jesunathadas

Mentor: Thane Wibbels, Biology

 Use of a Modified Neutrophil Surface Killing Assay to Test the Killing of S. pneumoniae Serotype 3 Strain WU2 Using an Anti-PspA Monoclonal Antibody

Eunlim Kim

Mentor: David E Briles, Microbiology

15. The Role of Temperature-Dependent Sex Determination on the Kemp's Ridley Sea Turtle and Its Effect on Beach and Corral Sex Ratios

Rikki Kukkamalla

Mentor: Thane Wibbels, Biology

 Histological and Sand temperature evaluation of Sex Ratios in Hawksbill Hatchlings on St. Croix, U.S. Virgin Islands

Brian Lam

Mentors: Thane Wibbels and Jenny Layton, Biology

Rhodopsin congenital night blindness mutant A295V (Work In Progress)
 Amie Marsh

Mentor: Alecia K Gross, Vision Sciences

18. EGCG Induced Repression of hTERT by Regulation of p300 in Human **Breast Cancer Cells**

Emily Mills

Mentor: Trygve Tollefsbol, Biology

19. Synthesis of inhibitors of Trypanosoma cruzi dihydrofolate reductase Aida Moran

Mentor: Sadanandan Velu, Chemistry

20. Altered Expression of an RNA editing enzyme, ADAR1 in schizophrenia

Kavita Nadendla

Mentors: Monsheel Sodhi, Rob McCullumsmith, James Meador-Woodruff -Psychiatry and Behavioral Neurobiology

21. Genetic variation in malaria vaccine candidate Plasmodium falciparum Merozoite Surface Protein 6 across multiple transmission seasons in the Peruvian Amazon

Aaron Neal

Mentor: Julian C Rayner, Medicine - Infectious Diseases

22. Microbial Diversity in a Freshwater Lake L47 located at the Schirmacher Oasis of East Antarctica

Itoro Obot

Mentor: Asim Kumar Bej, Biology

23. Pre-existing antibodies to HSV-1 limit its efficacy as a vaccine vector Erica Parrish

Mentor: Jacqueline N Parker, Pediatrics and Infectious Disease

24. Epigenetic regulation of hTERT in breast cancer prevention by (-)epigallocatechin-3-gallate (EGCG) and Pro-EGCG

Shweta Patel

Mentor: Trygve Tollefsbol, Biology

25. Retinoids Attenuate Hyperoxia-Induced Impaired Alveolarization in the Newborn Mouse Lung (Work In Progress)

Gregory Pettaway

Mentors: Namasivayam Ambalavanan, and Masheika L. James - Pediatrics, Division of Neonatology

26. Melatonin-induced neuroprotection is dependent on cystine glutamate exchanger (xCT) expression

Phillip Philon

Mentor: Brian Sims, Pediatrics

27. Establishment and Characterization of KCOT-4 Primary Cell Population Cristing Piazza

Mentors: Changchun Ren and Mary MacDougall - Institute of Oral Health Research

28. The Role of ARFGAP1 on CFTR Endocytosis

Timothy Stooksberry

Mentor: Jim Collawn, Cell Biology

29. A screen for candidate MKS genes uncovers multiple loci and a novel MKS-5 allele

Rachel Stupay

Mentor: Bradley K Yoder, Cell Biology

30. Leg Power Development with Concurrent Resistance and Aerobic Training in Older Women

Parker Suit

Mentors: Gary R Hunter, David R. Bryan, John P. McCarthy - Human Studies

31. Mechanistic Characterization of the KISS1 Metastasis Suppressor John Thomas

Mentors: Danny R Welch and Benjamin Beck, Pathology

32. Tear Component Interference in Cytometric Bead Based Assay of Interleukin-8

My Tho Tran

Mentor: Roderick J Fullard, Vision Science

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Thi Tran

Mentors: Mary J MacDougall, Changchun Ren- Oral and Maxillofacial Surgery

34. Masculinization of Western Female Mosquitofish, Gambusia Affinis Exposed to Progesterone

Karlene Walker

Mentor: Robert A Angus, Biology

35. Evaluation of Hatchling Sex Ratios of Kemp's Ridley Sea Turtles on the Padre Island National Seashore During the 2009 Nesting Season

Brandon Withers

Mentor: Thane Wibbels, Biology

36. The effect of BRMS1 on the adhesion of metastatic breast cancer cells to ICAM-1 and VCAM-1 ligands on endothelial cells

Justin Chuang

Mentor: Timothy M Wick, Biomedical Engineering

37. Generation of Adenovirus Linked to the Major Vault Protein via pIX-MVP Fusion Protein

Timothy Fee

Mentors: David T Curiel, Qiana Matthews, Zeng Zhu-Human Gene

Therapy

38. Sensory Stimulatory Station

Eric Franks and Matthew Sapp

Mentor: Alan W Eberhardt, Biomedical Engineering

39. Electrospun Nanofibrous Scaffolds for Dental Pulp Bioengineering

Kyungwoo Kang

Mentor: Mary J MacDougall, Oral and Maxillofacial Surgery

Single Walled Carbon Nanotubes Promote Tissue Repair after Spinal Cord Injury

Jose Roman

Mentor: Candace L Floyd, Physical Medicine and Rehabilitation

41. Targeted Ultrasound Contrast Agent for Molecular Imaging of Breast Cancer

Reshu Saini

Mentor: Kenneth L Hoyt, Radiology

42. Solar Champs

Kerri Richardson

Mentors: Gregg L Vaughn and David Green, Electrical Engineering

43. UAB Engineers Without Borders Project in Lusaka, Zambia (Work In Progress)

Charles Erwin

Mentor: Melinda M Lalor, Engineering

44. The characterization and Study of a Thermoplastic-Based Composite Materials for Army's Ballistic Helmet

David Sexton

Mentor: Uday Vaidya, Materials Science and Engineering

45. Study of Process Optimization to Minimize Fiber Attrition of Natural Fiber Composites (Work In Progress)

Nsiande Mfala

Mentors: Selvum Pillay and Uday K. Vaidya, PhD- Materials Science and

Engineering

46. Solar Hot Water Heating

Kyle Gilbreath

Mentor: Peter M Walsh, Mechanical Engineering

47. Bamboo Wheelchair

Kyle Gilbreath and Jake Nelson

Mentor: Alan W Eberhardt, Biomedical Engineering

48. Computational Fluid Dynamics - Sleep Apnea

Jacob Nelson

Mentor: Roy P Koomullil, Mechanical Engineering

49. SAE Baja 2010

Haley Rilling, Alex McConathy, Heath Washington, David Saunders,

Thomas Moland, Jung Goldsmith, and Alexi Neklyudov

Mentor: Tina G Oliver, Mechanical Engineering

50. Mechanical Engineering Capstone Design Project: Robotic Arm (Work in Progress)

Joe Silvie, Gene Bradley, Jarryd Christner, Matt Martin, Steven Syx, and Chad Watts

Mentor: Douglas H Ross, Mechanical Engineering

51. Variable speed pumping system (Work in Progress)

Jason Troutman, Phillip Abbott, Zac Sanders, Adam Telle, and Mark Waddell

Mentor: Sally Anne McInerny, Mechanical Engineering

52. Structural Basis for the Interactions Between HIV-1 Gag and Calmodulin

Timothy Fernandez

Mentor: Jamil S Saad, Microbiology

53. Stability Studies of Novel Oligodeoxynucleotides in TLR-9 Mediated Cellular Invasion (Work in Progress)

Elise Ottenfeld

Mentor: David E Graves, Chemistry

54. Probing Interaction Between Water and Nanoparticles by Using Kinetic Analysis of Calorimetric Data

Jennifer Prado

Mentor: Sergey Vyazovkin, Chemistry

55. Biomimetic Self-Assembled Nanomatrix for Islet Transplantation

Sergey Antipenko

Mentor: Ho-Wook Jun, Biomedical Engineering

56. Distribution of Spiral Points on Surfaces of Revolution

Eric Askelson

Mentors: Gilbert Weinstein and Roman Shterenberg, Mathematics

57. Antimicrobial Effects of FOY Pigment Isolated from an Antarctic Bacterium Ant342

Samantha Watkins

Mentor: Asim Kumar Bej, Biology

58. Bafilomycin Attenuates Neuronal Cell Death Associated with Autophagy-Lysosome Pathway Dysfunction

Austin Luker

Mentor: John J Shacka, Neuropathology

59. The role of Epigenetic Mechanisms and Spatial Learning and Memory

Sonda Sengupta

Mentor: Eric Roth, Neurobiology

60. Beyond CBT: An Integrative Treatment Model for Bulimia Nervosa

Megan Bendig

Mentor: Mary M Boggiano, Psychology

61. The Effects of Ecotourism in the Galapagos Islands

Shannon Denny and La'Kenya Lowe

Mentor: Belita A Faki, Foreign Languages

62. Adolescent Hopelessness: The Effects of Neighborhood and School Environments

Ebony Hinton

Mentor: Sylvie Mrug, Psychology

Role of parental age in early adolescent's academic outcomes (Work in Progress)

Vinetra King

Mentor: Sylvie Mrug, School of Public Health

64. Neural bases of inferring emotional and perceptual information from body postures in high-functioning children with autism

Sandhva Kumar

Mentor: Rajesh Kumar Kana, Psychology

65. Determining Grey Matter Changes Produced By CI Therapy in Children with Congenital Hemiparesis

Avushe Sharma

Mentors: Edward Taub, Lynne Gauthier, Tyler Rickards, and Chelsey

Sterling, Psychology

66. Developing a Self-Report Measure of Distracted Driving in Young Adults (Work in Progress)

Sharon Welburn

Mentor: Despina Stavrinos, Medicine

67. Patriarchal Communities, Liberalism, and the continuation of Honor Crimes in Turkey (Work in Progress)

Shaina Boe

Mentors: Lisa B Sharlach and Nikos Zahariadis, Government

68. Cardiovascular Response in Women Cycling While Wearing Weight: Follow-Up to a Simulation Study of Obesity Influence on Fatigue and Effort

lin loo Shim

Mentor: Rex Alton Wright, Psychology

69. Biliary Dyskinesia: An Overlooked Disorder of the Gallbladder

Heather Elmore

Mentor: M Tino Unlap, SHP- Biotechnology/Medical Technology

70. The Effect of PDGF-BB and IGF-1 on Proliferation of NIH 3T3 Cells

Alla Mahdi

Mentors: Janelle M Chiasera, M Paige Powell, and M Tino Unlap, Clinical

Laboratory Science Program

71. The possible relationship between parental divorce or separation and eating disorders

Connie Lee

Mentor: M Paige Powell, School of Health Professions

72. A Comparison of Health Systems: Australia, The Netherlands, Switzerland, and the United States

Brynden Styres

Mentor: M Paige Powell, School of Health Professions

73. Radiation Overdose: A Patient's Perspective (Work in Progress)

Mary Conley

Mentors: Pamela C Cartright, M. Paige Powell, and Norman Bolus, School of Health Professions

Using an Adult Perspective to Develop a Children's Guide to Brain Cancer Treatment

Katie Copeland

Mentor: M Paige Powell, School of Health Professions

The effects of respiratory gating in radiation therapy treatment of lung cancer

Bobbie Gibson

Mentors: Pamela C Cartright and Paige Powell, Radiation Therapy

76. Living With Prostate Cancer ... What Patients Do Not Know

Shanna Johnson

Mentor: M Paige Powell, School of Health Professions

77. Pulmonary Function Trends for Mice Infected with Pseudomonas aeruginosa (Work in Progress)

Christina Frasier

Mentor: Debra Eddins Laken, Respiratory Therapy

The Role of Early Diagnosis in Neurogenic Pulmonary Edema (Work in Progress)

Wes Johnson

Mentors: Debra Eddins Laken and Wesley Granger, Respiratory Therapy

79. Obstructive Sleep Apnea Reversal and Hypertension Outcomes (Work in Progress)

Craig Mardis

Mentor: Debra Eddins Laken, Respiratory Therapy

80. Current Trends in Nuclear Medicine Clinical Equipment (Work in Progress)

Yvonne Flaherty

Mentors: M Paige Powell and Norman Bolus, School of Health Professions

81. Parkinson's Disease: A Study of Diagnosis, Treatment, and Quality of Life (Work in Progress)

Krystle Worthington

Mentor: M Paige Powell, Health Sciences

82. Assessing Impacts of Electronic Health Records on Cancer Registries in Alabama

Shannon Colquitt

Mentor: Shannon Houser, Health Information Management

83. Cytomorphologic Spectrum of Benign Seminal Vesicle Cells: A Potential Diagnostic Pitfall

Abigail (Rebecca) Stanley

Mentors: M Paige Powell and Michael W. Stanley, MD, Health Services

Administration

84. Factors Influencing Acceptance of Electronic Health Records in Hospitals in Alabama

Kirsten Johnson

Mentor: Robert L Garrie, Health Services Administration

85. Service Learning through Ethnographic Filmmaking of a Community in Powderly Helping to save the Watercress Darter

Ingrid Pfau

Mentors: Michele Forman and Rosie O'Beirne, Digital Community Studies

86. Supporting the Homeless Community Through Service-Learning in the Birmingham Metro Area

Allison Borden

Mentors: Norma May Isakow and Robert Corley, Office of Assoc Provost Undergraduate Programs

87. Talking books

Brittany Cobern

Mentors: Betty Nelson and Beth Smith, Special Education

88. Helping Hands for the Homeless

Lauren Ashley

Mentors: Norma May Isakow and Angela Stowe, Service Learning

89. Connections with the Hispanic Community: Both Abroad and Locally

Sarah Frazier

Mentors: Jill A Ross and Mirna Pineda, Nursing

90. Service Learning with Operation New Birmingham

Anna Lloyd

Mentors: Robert G Corley and Fran Godcheaux, Global and Community Leadership Honors Program

91. Service learning with Highlands United Methodist Church Community

Ministries

Patrick Weaver

Mentors: Norma May Isakow and Angela Stowe, Service Learning

92. Stepping in Someone Else's Wheels

Dhara Shah

Mentor: Robert G Corley, Global and Community Leadership Honors

93. Song of Maria & Song of Mario: Cross-Cultural Conflicts in the Amerindian Context

Adam Westenhofer

Mentor: Lamia Zayzafoon, Foreign Languages and Literatures

94. Back to School

Jordyn Ellis

Mentors: Beth Smith and Betty Nelson, Education

95. I Have a Dream

Anna Matthews

Mentors: Beth Smith and Betty Nelson, Education

96. Reading - Utilizing Environmental Print

Diana Prutzman

Mentor: Lynn D Kirkland, Early Childhood/Elementary Ed

Oral Presentations

Heritage Hall - Rooms 104, 106, 121

Room 104 Heritage Hall - Session A

1:00 A comparison study between key personality, demographic, and psychographic characteristics of honors students and an aptitude for strategic leadership

Amy Warren

Mentor: Stephen A Yoder and Jacob Gelber - Marketing, Industrial Distribution and Economics

1:15 Effective Leadership Styles in Higher Education Administrators at Transitions

Josh Carpenter

Mentors: Stephen A Yoder and Jacob Gelber -Business

1:30 Creative Leadership in Translational Research

Sam Lee

Mentor: Stephen A Yoder and Jacob Gelber - Marketing, Industrial Distribution and Economics

1:45 Improving Negotiations

Ryan Johnston

Mentor: Stephen A Yoder - Marketing, Industrial Distribution and Economics

2:00 Racial Disparities in Children's Health Insurance

Jennifer Ghandi

Mentors: James Marton - Economics

2:15 Conflict Style and Myers Briggs Type Indicator

Christine Higgins

Mentor: Stephen A Yoder -Business

Room 104 Heritage Hall - Session B

- 2:30 Rosedale Community Interview with Doris Cunningham

 Ashley Wilson

 Mentor: Rosie O'Beirne, DCS History and Anthropology
- 2:45 Jefferson County Beekeepers (Work In Progress)
 Rebecca Marston and Kyle Henderson
 Mentors: Michele Forman and Rosie O'Beirne DCS, History and
 Anthropology
- 3:00 The Road to Recovery: living with mental illness

 Autumn Stockwell and Jeralyn Powell

 Mentors: Michele Forman and Rosie O'Beirne DCS, History and Anthropology
- 3:15 One of 3000: The Janet Gillispie Story

 Morgan Anders and Thomas Wood

 Mentors: Michele Forman and Rosie O'Beirne DCS, History and Anthropology
- 3:30 Lunchables
 Ingrid Pfau
 Mentors: Michele Forman, Doug Balous, Carolyn Conley- DCS,
 History and Anthropology

Room 104 Heritage Hall - Session C

- 3:45 The New New Deal: Highland Manor
 Rebecca Martson and Eddie Lewis
 Mentors: Michele Forman and Rosie O'Beirne DCS, History and
 Anthropology
- 4:00 It's Time to Ride

 Kyle Henderson, Alex Lanier, and Alyssa Mitchell

 Mentors: Michele Forman and Rosie O'Beirne DCS, History and
 Anthropology

4:15 Cancer Prevention Research at UAB Colin Albea and Caitlin Chandler Mentors: Michele Forman and Rosie O'Beirne - DCS, History and Anthropology

- 4:30 Age Limit 70
 Sarah Johnson and Dawn Coleman
 Mentors: Michele Forman and Rosie O'Beirne DCS, History and Anthropology
- 4:45 **Birmingham YouthBuild**Ronald Trae Crain and Erin Hennessy
 Mentors: Michele Forman and Rosie O'Beirne DCS, History and Anthropology
- 5:00 Science Beyond the Classroom

 Brittney Jones and Mallory Messermith

 Mentors: Michele Forman and Rosie O'Beirne DCS, History and
 Anthropology

Room 106 Heritage Hall - Session A

- 1:00 Effect of poly-L-lysine interactions and potential toxicity to a lipid bilayer (Work In Progress)

 Kevin Anderson

 Mentor: Yuhua Song, Biomedical Engineering
- 1:15 Cardiac Electromechanics in 3D (Work In Progress)

 George Waits

 Mentor: Jack M. Rogers, Biomedical Engineering
- 1:30 Mitigation of Plastic Shrinkage Cracking Using Polypropylene
 Microfibers

 Austin Dada

 Mentor: Fouad H Fouad and Richard Hawkins Civil, Construction, and Environmental Engineering

1:45 Strength Attributes of Fiber-Reinforced Concrete (Work In Progress)

Jason Kretzschmar

Mentor: Fouad H Fouad and Richard Hawkins - Civil, Construction,

and Environmental Engineering

Room 106 Heritage Hall - Session B

2:00 UAB ASCE Concrete Canoe

Joey Spraque and Stephen Gremmels

Mentors: Jason Kirby and Fouad H. Fouad - Civil Engineering

2:15 Developments in the Optimization of Biodiesel Synthesis from Waste Vegetable Oil (WVO)

Veronica Weaver-Rivers

Mentor: Robert W Peters, Civil, Construction and Environmental Engineering

2:30 Storage of Carbon Dioxide in Geologic Formations (Work In Progress)

Aaron Lamplugh

Mentor: Peter M Walsh, Mechanical Engineering

2:45 Design and Construction of Wind Turbine for Areas of Low Wind Speed

Kevin Nord, Charles Worthingon, Chris Yancey, Collin Metzger, Danielle Coston

Mentor: Alan M Shih, Mechanical Engineering

3:00 UAB IEEE Southeastcon 2010 Robotics entry (Work In Progress) William Bowyer, Stefan Schmidt, Christopher Rodriguez, Mauricio Cajiao

Mentors: Gregg L Vaughn, David G Green, Larry H Lokey - Electrical and Computer Engineering

Room 106 Heritage Hall - Session C

3:15 Dispersion of Hydroxyapatite Nanorods for Applications in Bone Tissue Engineering

Frank Perkins

Mentor: Renato P Camata, Physics

3:30 Cardiovascular Collapse After Return of Spontaneous Circulation in Human Out-Of-Hospital Cardiopulmonary Arrest

Andy Kuklinski

Mentor: Henry Wang, Emergency Medicine

3:45 Characterization of GBF1 Targeting to the Golgi Membrane

Helen Lin

Mentor: Elizabeth S Sztul, Cell Biology

Room 106 Heritage Hall - Session D

4:00 Professional Policing in the Information Age

Thomas Blizard

Mentors: Kent R Kerley and Gary Warner - Criminal Justice

4:15 Language Impairment Identification

Anthony Bowman

Mentor: Thamar Ivette Solorio-Martinez, Computer and Information

Sciences

4:30 Rendering Algebraic Curves

Patrick Butler

Mentor: John K Johnstone, CIS

4:45 Victim and Offender-Related Characteristics and Their Effects on

Parole Release Decisions

Tiffany Allison

Mentor: Kathryn D. Morgan, Criminal Justice

Room 121 Heritage Hall - Session A

1:00 Richard II

Nicole Debuono

Mentor: Carolyn Conley, History

1:15 An English Response to a Scottish King's Absolute Ideology

Ashley Foster

Mentor: Carolyn Conley, History

1:30 Bingo, Baby Shan Sheikh

Mentors: Kerry Madden-Lunsford, Rebecca Ann Bach, and Daniel

Anderson - English

1:45 Pentapolis

Gregory Lallone

Mentor: Lawrence G Wharton, English

2:00 Hometown Ruins

Quinn Lewis

Mentor: Adam Vines, English

2:15 Leaving Church

Bret Lybrand

Mentor: Lawrence G Wharton, English

Room 121 Heritage Hall - Session B

2:30 Anything You Can Do, I Can Do Better: A Cross-National Comparison of Assessment within Early Childhood Educational Systems in Florence, Italy and Alabama, United States Justina Jenkins

Mentor: Belita A Faki, Foreign Language and Literature

2:45 I Like Myself

Kendyl Sumbry

Mentor: Beth Smith, Education

3:00 Recognizing the Justice of Maternal Productivity

Christy Batts

Mentor: Wendy Gunther-Canada, Government

3:15 Food Insecurity in Alabama

Thomas McLemore

Mentor: Holly Brasher, Government

Room 121 Heritage Hall - Session C

3:30	Frontotemporal Dementia-Similar Behavior Abnormalities in New
	Mouse Model with Progranulin Deficiency
	Allen Young
	Mentor: Anthony J Filiano and Erik Roberson, CNET
3:45	Sleep In Children With Cystic Fibrosis During A Pulmonary
	Exacerbation
	Payal Mehta
	Mentor: Kristin Avis - Pediatrics, Pulmonary Division
4:00	Neighborhood Influences on Alcohol Consumption and Intimate
	Partner Violence
	Charlene Rhoades
	Gail Wallace, Sociology
4:15	The Internalization of the Cultural Apparatus Through the
	Movement of Agent and Generalized Other
	Jacob Miller
	Mentor: Casey Borch, Sociology

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Abbott, Phillip-Mechanical Engineering; 8 Alapati, Divya-Biology; 3 Albea, Colin-Film; 16 Allison, Tiffany-Criminal Justice; 18 Anders, Morgan-Psychology; 15 Anderson, Kevin-Biomedical Engineering; 16 Antipenko, Sergey-Chemistry & Physics; 9 Ashley, Lauren-Nursing; 12 Askelson, Eric-Mathematics; 9 Azerf, Saji -Biology; 3 Batts, Christy-Political Science; 19 Bendig, Megan-Psychology; 9 Birdwell, Dillon-Biology; 3 Blizard, Thomas-Computer Science; 18 Boe, Shaina-International Studies; 10 Borden, Allison-Health Sciences: 12 Bowman, Anthony-Computer Science; 18 Bowyer, William-Electrical Engineering; 17 Bradley, Gene-Mechanical Engineering; 8 Burden, Matthew-Biology; 3 Butler, Patrick-Computer Science; 18 Cajiao, Mauricio-Electrical Engineering; 17 Carmack, Cheryl-Biology; 3 Carpenter, Josh-Accounting; 14 Chandler, Caitlin-History; 16 Christner, Jarryd-Mechanical Engineering; 8 Chuang, Justin-Biomedical Engineering; 7 Cobern, Brittany -Education; 12 Coleman, Dawn-Art; 16 Colquitt, Shannon-Health Info Management; 12 Conley, Mary-Radiation Therapy; 11 Copeland, Katie-Radiation Therapy; 11 Coston, Danielle-Mechanical Engineering; 17 Crain, Ronald (Trae)-International Studies; 16 Dada, Austin-Civil Engineering; 16 DeAndrade, Mark-Biology; 3 DeBuono, Nicole-History; 18 Denny, Shannon-Psychology; 9 Do, Kym-Biology; 3 Ellis, Jordyn-Education; 13 Elmore, Heather-Medical Technology; 10 Erwin, Charles-Civil Engineering; 7 Farhoomand, Amin -Biology: 3 Fee, Timothy-Biomedical Engineering; 7 Fernandez, Timothy-Chemistry; 8 Flaherty, Yvonne-Nuclear Medicine Tech; 11 Foster, Ashley-History; 18 Franks, Eric-Biomedical Engineering; 7 Frasier, Christina-Respiratory Therapy; 11 Frazier, Sarah-Nursing; 12 Ghandhi, Jennifer-Economics; 14 Gibson, Bobbie -Radiation Therapy; 11 Gilbreath, Kyle-Mechanical Engineering; 8(2) Goldsmith, Jung-Mechanical Engineering; 8 Gourmelon, Gaelle-Biology; 4

Gremmels, Stephen-Civil Engineering; 17 Guyette, Nicole-Biology; 4 Hall, Jason-Biology; 4 Haritha, Abhishek-Biology; 4 Henderson, Kyle-History; 15(2) Hennessy, Erin-Anthropology; 16 Higgins, Christine-Economics; 14 Hinton, Ebony-Psychology; 9 Jenkins, Justina -Education; 19 Jesunathadas, Lydia-Biology; 4 Johnson, Kirsten-Health Info Management; 12 Johnson, Sarah-Individually Designed - Film; 16 Johnson, Shanna-Radiation Therapy; 11 Johnson, Wes-Respiratory Therapy; 11 Johnston, Ryan-Accounting and Finance; 14 Jones, Brittney -Neuroscience: 16 Kang, Kyungwoo-Biomedical Engineering; 7 Kim, Eunlim-Biology; 4 King, Vinetra-Psychology; 9 Kretzschmar, Jason-Civil Engineering; 17 Kukkamalla, Rikki-Biology; 4 Kuklinski, Andy-Biology; 18 Kumar, Sandhya-Psychology: 10 Lallone, Gregory-English; 19 Lam, Brian-Biology; 4 Lamplugh, Aaron-Mechanical Engineering; 17 Lanier, Alex-Communication Studies; 15 Lee, Connie-Health Science: 10 Lee, Sam-Accounting; 14 Lewis, Quinn-English; 19 Lewis, Eddie-Education; 15 Lin, Helen-Biology; 18 Lloyd, Anna-Psychology; 12 Lowe, La'Kenya-Criminal Justice; 9 Luker, Austin-Neuroscience; 9 Lybrand, Bret-English; 19 Mahdi, Alla-Medical Technology: 10 Mardis, Craig-Respiratory Therapy; 11 Marsh, Amie-Biology; 4 Marston, Rebecca-Biology; 15(2) Martin, Matt-Computer & Information Science; 8 Matthews, Anna-Education; 13 McConathy, Alex-Mechanical Engineering; 8 McLemore, Thomas -Political Science; 19 Mehta, Payal-Psychology; 20 Messersmith, Mallory-History & Anthropology; 16 Metzger, Collin-Materials Engineering; 17 Mfala, Nsiande - Materials Sci & Eng; 8 Miller, Jacob-Sociology/Social Psychology; 20 Mills, Emily -Biology; 5 Mitchell, Alyssa-Communication Studies; 15 Moland, Thomas-Mechanical Engineering; 8 Moran, Aida-Biology; 5 Nadendla, Kavita-Biology; 5 Neal, Aaron-Biology; 5

Neklyudov, Alexi-Mechanical Engineering; 8 Nelson, Jacob-Mechanical Engineering; 8(2) Nord, Kevin-Mechanical Engineering; 17 Obot, Itoro-Biology; 5 Ottenfeld, Elise-Chemistry; 8 Parrish, Erica-Biology; 5 Patel, Shweta-Biology; 5 Perkins, Frank-Physics; 17 Pettaway, Gregory-Biology; 5 Pfau, Ingrid-Environmental Sci Filmmaking; 12, 15 Philon, Phillip-Biology; 5 Piazza, Cristina-Biology; 6 Powell, Jeralyn-Public Health; 15 Prado, Jennifer-Chemistry; 9 Prutzman, Diana-Education; 13 Rhoades, Charlene-Sociology; 20 Richardson, Kerri-Electrical Engineering; 7 Rilling, Haley-Mechanical Engineering; 8 Rodriguez, Christopher-Electrical Engineering; 17 Roman, Jose-Biomedical Engineering; 7 Saini, Reshu-Biomedical Engineering: 7 Sanders, Zac-Mechanical Engineering; 8 Sapp, Matthew-Biomedical Engineering; 7 Saunders, David-Mechanical Engineering; 8 Schmidt, Stefan-Electrical Engineering; 17 Sengupta, Sonda-Neuroscience: 9 Sexton, David-Materials Engineering; 7 Shah, Dhara-Physical Education; 13 Sharma, Ayushe-Psychology; 10 Sheikh, Shan-English; 19 Shim, Jin Joo-International Health; 10 Silvie, Joe-Mechanical Engineering; 8 Spraque, Joey-Civil Engineering; 17

Stanley, Abigail (Rebecca)-Cytotechnology; 12 Stockwell, Autumn -International Studies; 15 Stooksberry, Timothy-Biology; 6 Stupay, Rachel-Biology; 6 Styres, Brynden-Health Science; 10 Suit, Parker-Biology; 6 Sumbry, Kendyl-Education; 19 Syx, Steven-Mechanical Engineering; 8 Telle, Adam-Mechanical Engineering; 8 Thomas, John-Biology; 6 Tran, My Tho -Biology; 6 Tran, Thi-Biology; 6 Troutman, Jason-Mechanical Engineering; 8 Waddell, Mark-Mechanical Engineering; 8 Waits, George-Biomedical Engineering; 16 Walker, Karlene-Biology; 6 Warren, Amy-Marketing and Management; 14 Washington, Heath-Mechanical Engineering; 8 Watkins, Samantha-Molecular Track; 9 Watts, Chad-Mechanical Engineering; 8 Weaver, Patrick-Psychology: 13 Weaver-Rivers, Veronica-Civil Engineering; 17 Welburn, Sharon-Psychology; 10 Westenhofer, Adam-Spanish; 13 Wilson, Ashley -History; 15 Withers, Brandon-Biology; 6 Wood, Thomas-Individually Designed; 15 Worthington, Krystle-Nuclear Med Tech; 11 Worthington, Charles-Mechanical Engineering; 17 Yancey, Chris-Mechanical Engineering; 17 Young, Allen-Neuroscience; 20

Neklyudov, Alexi-Mechanical Engineering; 8 Nelson, Jacob-Mechanical Engineering; 8(2) Nord, Kevin-Mechanical Engineering; 17 Obot, Itoro-Biology; 5 Ottenfeld, Elise-Chemistry; 8 Parrish, Erica-Biology; 5 Patel, Shweta-Biology; 5 Perkins, Frank-Physics; 17 Pettaway, Gregory-Biology; 5 Pfau, Ingrid-Environmental Sci Filmmaking; 12, 15 Philon, Phillip-Biology; 5 Piazza, Cristina-Biology; 6 Powell, Jeralyn-Public Health; 15 Prado, Jennifer-Chemistry; 9 Prutzman, Diana-Education; 13 Rhoades, Charlene-Sociology; 20 Richardson, Kerri-Electrical Engineering; 7 Rilling, Haley-Mechanical Engineering; 8 Rodriguez, Christopher-Electrical Engineering; 17 Roman, Jose-Biomedical Engineering; 7 Saini, Reshu-Biomedical Engineering; 7 Sanders, Zac-Mechanical Engineering; 8 Sapp, Matthew-Biomedical Engineering; 7 Saunders, David-Mechanical Engineering; 8 Schmidt, Stefan-Electrical Engineering; 17 Sengupta, Sonda-Neuroscience; 9 Sexton, David-Materials Engineering; 7 Shah, Dhara-Physical Education; 13 Sharma, Ayushe-Psychology; 10 Sheikh, Shan-English; 19 Shim, Jin Joo-International Health; 10 Silvie, Joe-Mechanical Engineering; 8 Spraque, Joey-Civil Engineering; 17

Stanley, Abigail (Rebecca)-Cytotechnology; 12 Stockwell, Autumn -International Studies; 15 Stooksberry, Timothy-Biology; 6 Stupay, Rachel-Biology; 6 Styres, Brynden-Health Science; 10 Suit, Parker-Biology; 6 Sumbry, Kendyl-Education; 19 Syx, Steven-Mechanical Engineering; 8 Telle, Adam-Mechanical Engineering; 8 Thomas, John-Biology; 6 Tran, My Tho -Biology; 6 Tran, Thi-Biology; 6 Troutman, Jason-Mechanical Engineering; 8 Waddell, Mark-Mechanical Engineering; 8 Waits, George-Biomedical Engineering; 16 Walker, Karlene-Biology; 6 Warren, Amy-Marketing and Management; 14 Washington, Heath-Mechanical Engineering; 8 Watkins, Samantha-Molecular Track; 9 Watts, Chad-Mechanical Engineering; 8 Weaver, Patrick-Psychology; 13 Weaver-Rivers, Veronica-Civil Engineering; 17 Welburn, Sharon-Psychology; 10 Westenhofer, Adam-Spanish; 13 Wilson, Ashley -History; 15 Withers, Brandon-Biology; 6 Wood, Thomas-Individually Designed; 15 Worthington, Krystle-Nuclear Med Tech; 11 Worthington, Charles-Mechanical Engineering; 17 Yancey, Chris-Mechanical Engineering; 17 Young, Allen-Neuroscience; 20