
Expo Programs

Expo

4-22-2011

2011 UAB Expo

University of Alabama at Birmingham

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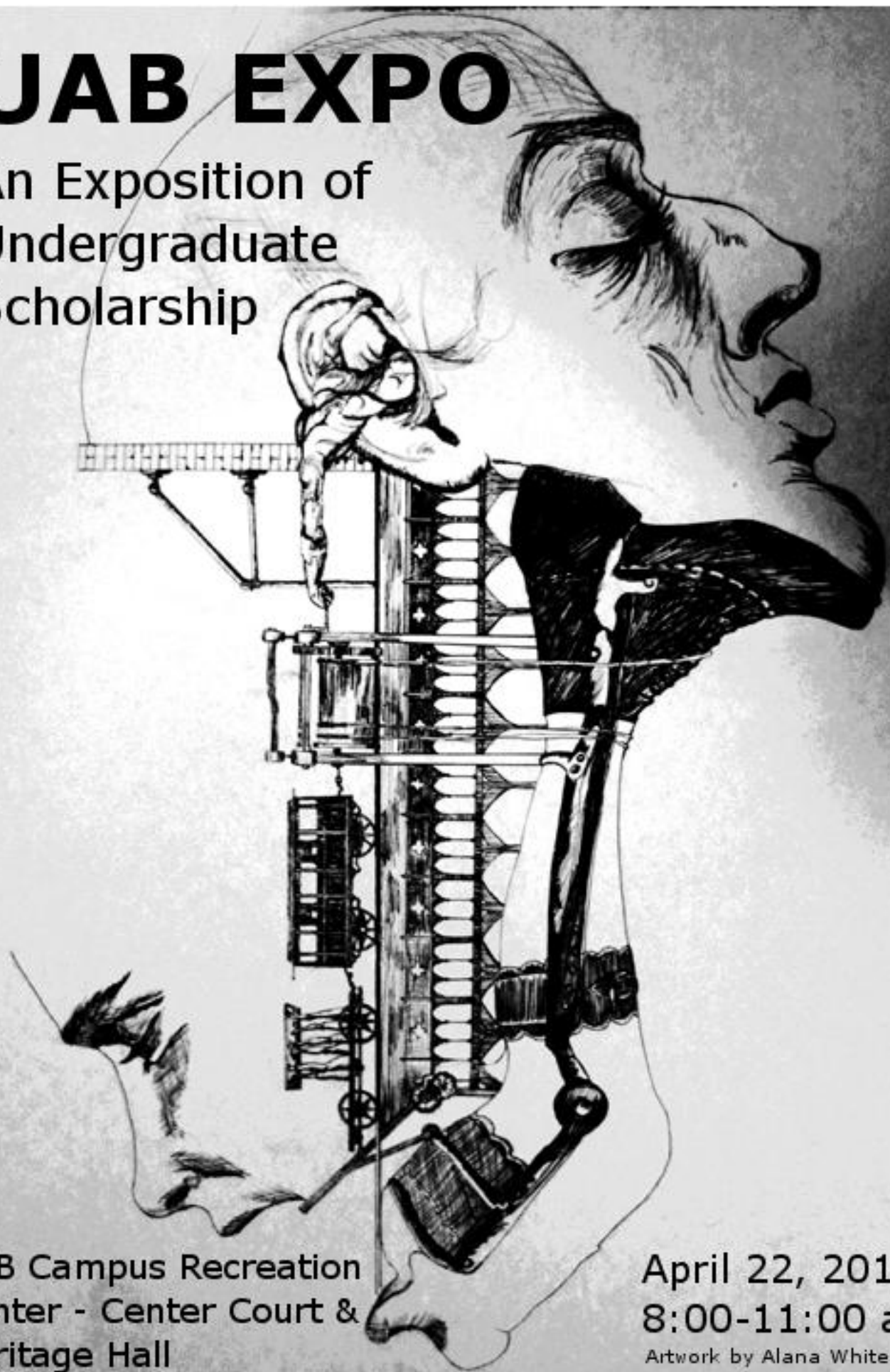
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UAB EXPO

An Exposition of
Undergraduate
Scholarship



UAB Campus Recreation
Center - Center Court &
Heritage Hall

April 22, 2011
8:00-11:00 am

Artwork by Alana Whitehead

4th Annual UAB Expo

An Exposition of Undergraduate Scholarship

Welcome

UAB and the UAB College of Arts and Sciences are proud to welcome you to the 4th annual UAB Expo: An Exposition of Undergraduate Scholarship. This year's Expo promises to be the largest to date, with more than 170 student presentations and approximately 200 student participants, representing many of the disciplines offered at UAB. Working with faculty, graduate students, peers, or individually, these talented and highly motivated students are an inspiration to the entire university. We are excited to showcase a vast diversity of student achievements and are sure that you will enjoy their hard work.

Best Regards,

UAB EXPO 2011 Directors
Torral Patel, Jarrod Collins, Timothy Fernandez

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Schedule of Events

Events	Times	Location
Registration	6:30-7:45	Campbell Hall
Plenary Talk	8:00-8:40	Campbell Hall 405
Poster Session	9:00-11:00	Center Court/ Rec Center
Oral Presentations	9:00-11:00	Heritage Hall 227,421,524,548,549, 571

Plenary Session

“Undergraduates in Action: Using Technology to Solve 21st Century Crimes”

Members of UAB’s Department of Justice Science discuss how innovative technologies are used to solve crime in the 21st Century. Topics include mapping crime “hot spots”, analyzing crime in social media sites, and identifying phishing and spam sources on the internet. Presenters will also discuss how forensic technologies are currently being used to trace the Gulf oil spill back to the source.

Presented by:

Dr. John Sloan, Chair, Department of Justice Sciences

Dr. Elizabeth Gardner, Assistant Professor, Department of Justice Sciences

Mr. Gary Warner, Director of Research in Computer Forensics

Ms. Olivia Faust, MSFS Candidate, Department of Justice Sciences

Poster Presentations

UAB Rec Center 9:00-11:00 A.M.

Life Sciences

1. The Effects of 4F on LTA

Uma Srivastava

Mentor: Geeta Datta, Gerontology

2. Comparative Analysis of Internal Ribosome Entry Sites in Yeast

Amanda Turner, Maria Hertz, and Sunnie R. Thompson

Mentor: Sunnie R. Thompson, Microbiology

3. A Screen Designed to Identify MKS-like Genes Yields a Novel Allele of *mks-5*, Possibly the Core MKS Protein

Rachel Stupay

Mentor: Bradley K. Yoder, Cell Biology

4. The role of estrogen-related receptor α (ERR α) in PPAR γ coactivator 1 α (PGC-1 α) mediated induction of parvalbumin (PV)

Ashruta Patel

Mentor: Rita Cowell, Psychiatry and Behavioral Neurobiology

5. Reactive Aldehydes as Mediators of Pulmonary Inflammation

Caleb Jones, Patricia L. Jackson, and J. Edwin Blalock

Mentor: Patricia L. Jackson, Department of Medicine

6. Optimizing First Feed in Developing Zebrafish Larvae

Mathew Snead

Mentor: Stephen Watts, Biology

7. Effect of Female Size on Reproductive Fitness in the Mississippi Diamondback Terrapin, *Malaclemys Terrapin Pileata*

Corine Hancock

Mentor: Thane Wibbels, Biology

8. MAD1 Regulation by EGCG and Genistein in Human Breast Cancer Cells

Ashley Gholston

Mentor: Trygve Tollefsbol, Biology

9. Establishment and Characterization of Immortalized Epithelial Emeloblast-like Cells from Emelogenesis Imperfecta (AI) Patient

Emily Anne Latta

Mentor: Mary MacDougall, School of Dentistry

10. Effect of EGCG on p21 Promoter

Rene Kukkamalla, Trygve Tollefsbol, and Michael Daniel

Mentor: Trygve Tollefsbol, Biology

11. DNA Methylation Analysis of the Maspin Gene in the MCF10 Breast Cancer Progression Model

Natalie Mitchell and Tyson DeAngelis

Mentor: Trygve Tollefsbol, Biology

12. Spontaneous Mutations: Examination of Yeast Genetics after Mutation and Reversion Cycling

Christopher McAtee

Mentor: Eric Sorscher, Cystic Fibrosis Research Center

13.The Effects of Speed of Processing Training on Eye Movements

Wesley Burge, Kristina Visscher, Frank Amthor, Rodalphe Nenert, and Alexander Zotov

Mentor: Kristina Visscher, Neurobiology

14.Lipid Concentration Leading to Apoptosis in Beta Cells Causing Type II Diabetes

Winnie Tsai

Mentor: Sasanka Ramanadham, Physiology

15.The Effect of Various Stresses on IRES-Mediated Translational Activity

Sope Oguntuyo, Dori M. Laundry, and Sunnie R. Thompson

Mentor: Sunnie R. Thompson, Microbiology

16.Differential contributions of c-Kit activating Mutations to Promotion of AML1-ETO Acute Myeloid Leukemia

Tiffany Mckleroy

Mentor: Chris Klug, Microbiology

17.Characterization of Novel Mycobacteriophages Isolated From Alabama Environmental Samples

Amiya Ahmed, Courtney Dunkerley, Akshay Mentreddy, and Colby Nance

Mentor: Denise L. Monti, Biology

18.DCB and HUS Interactions in GBF1 Membrane Targeting

Helen Lin, Tomasz Szul, and Elizabeth Sztul

Mentor: Elizabeth Sztul, Cell Biology

19.Genomic Analysis of the Novel B1 Mycobacteriophage, OSmaximus

Michelle Chang, Paul Lee, Mingchun Liu, and Sherwin Thomas

Mentor: Denise L. Monti, Biology

20.The Role of Microglia During Myelination

Beum Kim

Mentor: Tara DeSilva, Chemistry

21.Linking Landscape Changes with Water Quality Changes in the Cahaba River Through the use of NASA Earth Observation Systems

Joseph Olson, Steve Padgett-Vasquez, Jin Huang, Danielle Keyes, Myles McManus, Katharine Campbell, Michelle Foreman, and Connor Whitley

Mentor: Sarah Parcak, Anthropology

22.Regulation of MeCP2 in Learning and Memory

Kelsey Patterson, Laura Qadri, J. David Sweatt

Mentor: J. David Sweatt, Neurobiology

23.Evaluation of Hatchling Sex Ratios fo the Endangered Kemp’s Ridley Sea Turtle from the Padre Island National Sea Shore in Texas

Morgan Burdeshaw

Mentor: Thane Wibbels, Reproductive Biology

24.Cadeveric Dissection: Effects of Cardiac Hypertrophy

David Alexander, Jasmin Dumas, Gavin Reed, and Amanda Robinson

Mentor: Dana Peterson, Biology

25.Sex Ratios of Kemp’s Ridley Seaturtles At Rancho Nuevo, Mexico

Eduardo Moraes

Mentor: Thane Wibbels, Biology

26.Developmental Changes of Glutathione in Neonatal Cerebral Spinal Fluid

LaKeshia Hyndman, Melinda Clarke, Stephanie Crockett, and Brian Sims

Mentor: Brian Sims, Neonatology

27. Effects of Sulforaphane and Cisplatin Treatments on A2780-CP20 Ovarian Cancer Cell Line

Sadhvi Batra, Shweta Patel, Syed M. Meeran, and Trygve Tollefsbol

Mentor: Trygve Tollefsbol, Molecular Biology

28. Investigating the Effects of Ongoing Activity on Early Sensory Processing: An fMRI Study

Sean Pool, Abdurahman Elkhetafi, Ryan Vaden, and Kristina Visscher

Mentor: Kristina Visscher, Neurobiology

29. Theophylline Upregulation of System Xc Induces Neuroprotection in Neural Stem Cells

Stacy Ejem, Melinda Clark, Stephanie Crockett, and Brian Sims

Mentor: Brian Sims, Neonatology

30. Using Yeast to Assess Resistance and Sensitivity to Nucleoside Analogues

Zohair Ahmed

Mentor: John Hartman IV, Genetics

31. The Antimicrobial Effects of Antarctic Bacterial Pigments

Samantha Watkins, Jonathan P. Huang, and Asim K. Bej

Mentor: Asim K. Bej, Biology

32. Evaluation of Sex Ratios of *Eretmochelys imbricata* in Pearl Cays, Nicaragua

Chris Lee, Cathi Campbell, Cynthia Lagueux, Marissa Bakhshian, Thane Wibbels, and Jenny Layton

Mentor: Thane Wibbels, Biology

33. UVC Absorbing Purple Violet Pigment Protects *Janthinobacterium sp.*

Ant5-2 from East Antarctica Against UV

Amin Farhoomand, Nazia Mojib, and Asim K. Bej

Mentor: Asim K. Bej, Biology

34. Cortical RNA Editing is Altered in Schizophrenia

Kavita Nadendla, Daniel Mount, V Haroutunian, James Meador-Woodruff, and Monsheel Sodhi

Mentor: Monsheel Sodhi, Psychiatry and Behavioral Neurobiology

35. The Effect of Altered DNA Methylation Levels on Morris Water Maze Performance

Sonda Sengupta, Mathew Ostrander, Eric Roth, Dawn Eason, Galen Jeong, and David Sweatt

Mentor: Eric Roth, Neurobiology

36. Behavioral Characterization of BTBD9 homolog knockout in *C. elegans*

Atbin Doroodchi, Mark P. DeAndrade, Michael A. Miller, and Qiang Ding

Mentor: Yuqing Li, Biology

37. Differentiating Antarctic *Pseudomonas* spp. Using Eubacterial Taxonomic Gene Markers

Michael Jacobson, Tiffany Song, Jonathan Huang, and Asim K. Bej

Mentor: Asim K. Bej, Microbial Molecular Genetics

38. A Novel Self-Assembling Nanomatrix Platform for Islet Transplantation

Sergy Antipenko, Dong Jin Lim, Nathan Hadley, Adi Andukuri, Ho-Wook Jun

Mentor: Ho-Wook Jun, Biomedical Engineering

39. Essential Tremor

Catherine Lake and Tino Unlap

Mentor: Tino Unlap, School of Health Professions

40. Inflammatory Mediators Induce Mitogen-Activated Protein Kinase Signaling in Oligodendrocytes

Kantidara Tjiang

Mentor: Tara DeSilva, Physical Medicine and Rehabilitation

41. Sex Ratio of Loggerhead Sea Turtles, a Species with Temperature-Dependent Sex Determination

Michael Strait

Mentor: Thane Wibbels, Biology

42. Characterization of CD44+/CD24-/ALDH+ Marker Expression as a Model for Drug Development Against Basal-like Breast Cancer Tumor Initiating Cells

Andres Aristizabal

Mentor: Donald Buchsbaum, Breast Cancer

Health Sciences

43. Runx2 Regulate Execution of the Insulin Signaling and Adipocyte Formation

Paiva Heber, Adhami Mitra, Harunur Rashid, Haiyan Chen, and Amjad Javed

Mentor: Amjad Javed, School of Dentistry

44. Extracellular Telomere Expression and Cancer

Ethan Hossain, Katri Selander, Christine Pressey, Robert Crescentini, David Graves, and Kevin Harris

Mentor: Kevin Harris, Department of Medicine

45. Hand-In-Paw: Pawsing for Quality Assurance and Safety

Rebecca Pemberton

Mentors: Jean Ivey and Teena McGuinness, School of Nursing

46. Evaluating the Access to Care in Rural and Urban Areas When Treating Acute Myocardial Infarction in Emergency Situations

Erin Cheng

Mentor: Norman Bolus, Nuclear Medicine

47. Level of Troponin Elevation and Secondary Prevention of Acute Coronary Syndrome in the Reasons for Geographic and Racial Differences in Stroke (REGARDS) Study

Kelsey Harnish, Mallika Mundkur, Christopher Gamboa, Annie Hahn, Manveen Kaur, Gaurav Parmar, Jennifer Burcyk-Brown, Todd Brown, and Monika Safford

Mentor: Monika Safford, Preventative Medicine

48. The Effect of 4F Treatment on the Levels of ApoA-1, ApoE and PONs in Human HepG2 Cells During LPS-Simulated Sepsis

Mohammad Abbasi

Mentor: C. Roger White, School of Medicine

49. The Relationship Between Nutrition Confidence and Health Care Utilization in Patients with COPD and CHF

Corey Lovelace

Mentor: Paige Powell, Health Services Administration

50. The Relationship Between Physical Activity and Sports Related Injuries

Jaime Brabb

Mentor: Paige Powell, Health Professions

51. The Effect of Modified Melphalan on Cancer Cells

Aldin Husicic

Mentor: Tino Unlap, Health Professions

52. Hypertonic Saline as a Drug to Help Break Up the Thick Secretions in Cystic Fibrotic Toddlers

Qurratul-Ayn Dibble

Mentor: Jerry King, Respiratory Therapy

53. Characteristics in Severe Motor Vehicle Crashes that Predict Extended Ventilator Days in Patients with Severe Blunt Chest Trauma

Ashley Oliver, Sherry Melton, Kimberly M. Hendershot, and Russell Griffin

Mentor: Wesley Granger, Respiratory Therapy

54. Oral N-Acetylcysteine as an Anti-inflammatory Agent in Adult Cystic Fibrosis Patients

Ashley Anyadike

Mentor: Jonathan Waugh, Respiratory Therapy

55. Nuclear Medicine V/Q Scintigraphy Compared to High Dose Computed Tomography in the Evaluation of Pulmonary Embolism: How Much Exposure is Possible?

Lael Gore

Mentor: Norman Bolus, Nuclear Medicine

Public Health

56.The Financial and Social Impact of Immigration on Public Health Systems

Lisa Kate Jarrett

Mentor: Stephanie Rauterkus, Finance

57.Family History of Malignancy and Risk of Multiple Myeloma

Maryam Ehtsham, Ryan S. Cantor, Donna Salzman, Roland Matthews, Michael Behring, and Elizabeth E. Brown

Mentor: Elizabeth E. Brown, Public Health

58.Mapping Health Disparities: Comparing Socioeconomic Status and Premature Mortality in Jefferson County

Andrew Douglas

Mentor: Shatomi Kerbawy, Public Health

59.Developing an Observational Study in a Pediatric Hospital

Nicole Safiano and Robert Naftel

Mentor: Chevis Shannon, Neurosurgery

Art Displays

61.Mamma Jackson’s Biscuits

Celestia Morgan

Mentor: Sonja Rieger, Arts and Art History

62.Regeneration and Transformation: Material Exploration of Perception

Melissa Precise

Mentor: John D. Powers, Arts and Art History

63.Beauty in Decay

Truman Grayson

Mentor: Sonja Rieger, Arts and Humanities

64. Structure for Arts Sake

Brooke Lancaster

Mentor: John D. Powers, Art Studio

65. Graphic Design Showcase

Showcasing ten students' graphic design projects

Mentor: Doug Barrett, Art and Art History

Engineering

66. The Sealing Capacity of Confining Layers

Aaron Lamplugh

Mentor: Peter Walsh, Mechanical Engineering

67. A Device to Simulate Primary Blast Injury in an Animal Model

Jose Roman, Justin Chuang, Nathan Hadley, and Adam Threet

Mentors: Alan Eberhardt and Dale Feldman – Biomedical Engineering

68. Rotary PCM Heat Exchange

Caroline Badger, David Ault, Jonathan Biven, Daniel Nail, and Daniel Pool

Mentor: Hessam Taherian, Engineering

69. Blade Design and Efficiency of Vertical Axis Wind Turbines

Blair Farley

Mentor: Alan Shih, Mechanical Engineering

70. SARS – Autonomous Search and Rescue Robot

David Busby, David Brim, Kyle Shepherd, and Khaleel Lalani

Mentor: David Green, Electrical Engineering

71. Breach and Clear

Blake Evans

Mentor: David Green, Electrical Engineering

72. E.R.R.R

Truong Nguyen, Elizabeth Hicks, and William Sullivan

Mentors: Gregg L Vaughn, David Green, and L. Lockey, Electrical and Computer Engineering

73. Search and Rescue Robotics

Blake Evans, Adam Bowman, Jameson Courtney, and Meraj Ahmed

Mentor: David Green, Electrical and Computer Engineering

74. Tatsu – An Autonomous Search and Rescue Robot

George Keel, Marwan Douban, Jared Stanbridge, and Pooja Puranikk

Mentor: Gregg L. Vaughn, Electrical and Computer Engineering

Physical Sciences

75. Extraction of Cocaine and Other Chemicals from Mexican and Canadian Currency

Michael Longmire, Leah Douglas, Dhruv Patel, and Elizabeth Gardner

Mentor: Elizabeth Gardner, Justice Sciences

Math and Technology

76.The Calculus Problem

Jessica Bass

Mentor: John Mayer, Mathematics

77.Automatic Compiler Parallelization of Loops for Java Subset

Alexander Filby

Mentor: Barrett Bryant, Computer and Information Sciences

78.An Iterative Method for Rendering an Algebraic Curve

Patrick Butler

Mentor: John K. Johnstone, Computer and Information Sciences

Social and Behavioral Sciences

79.Effects of Childhood Sleep on Early Adolescent Substance Use

Chasity Taswell, Natalie Goodwin, Sylvie Mrug, and Michal Windle

Mentor: Sylvie Mrug, Psychology

80.The Correlation Between Hemispheric Dominance and Academic Concentration: A Survey of Business Students

Jennifer Allen and Garrett Jeffreys

Mentor: Stephen Yoder, Business

81.Arson

Shawna Lee Wrench

Mentor: Carolyn Conley, History

82.Perceived Leadership Styles and Their Affect on the Performance of Baseball Pitchers

Ryan Woolley

Mentor: Larry Powell, Communications

83. Does Temperament Modify the Effects of Prenatal Smoking on Adolescent Aggression?

Stephanie Cardwell, Anjana Madan, Sylvie Mrug, and Michael Windle

Mentor: Sylvie Mrug, Psychology

84. Effect of Distracted Driving and Traffic Congestion on Visual Attention

Leslie Williams, Philip R. Fine, Annie A. Garner, and Crystal A. Franklin

Mentor: Despina Stavrinos, Medicine

85. How Parental Age Affects Early Adolescents' Academic Achievement

Vinetra King

Mentor: Sylvie Mrug, Psychology

86. Assessing the Role of Sociability in Cell Phone use While Driving

Ayushi Amin, Annie A. Garner, Crystal A. Franklin, and Philip R. Fine

Mentor: Despina Stravrinos, Medicine

87. Success Importance as a Moderator of Fatigue Influence on Cardiovascular Response to a Behavioral Challenge

Brett Patrick, Casey Thomas, Ben Goodley, Jessica Reese, and Rex Wright

Mentor: Rex Wright, Psychology

88. Enhancing Productivity and Work Efficiency in a Research Laboratory

Ben McManus, Annie A. Garner, Crystal A. Franklin, and Philip R. Fine

Mentor: Despina Stravrinos, Medicine

89. Psychometric Validity of Questionnaire Assessing Distracted Driving (QUADD)

Sharon Welburn, Despina Stavrinos, Annie A. Garner, Crystal A. Franklin, and Philip R. Fine

Mentor: Despina Stavrinos, Medicine

90.The Impact of Voter Turnout on Modern Society

Kristen Davis

Mentor: Holly Brasher, Government

91.Exploring Differences in Cognitive Abilities In Adolescents with and without Attention Deficit Hyperactivity Disorder

Shannon Denny, Annie A. Garner, Crystal A. Franklin, and Philip R. Fine

Mentor: Despina Stavrinos, Medicine

92.It's Not Just Distracted Driving!

Sabrina Mangieri, Annie A. Garner, Crystal A. Franklin, and Philip R. Fine

Mentor: Despina Stavrinos, Medicine

93.Effects of Substance Use/Abuse on Government Trust

Anthony Shunnarah

Mentor: Casey Borch, Sociology

94.Ethiopia: A Study of the Relationship Between Women and Development

Sequince Baker

Mentors: Lisa Sharlach and Robert Corley, Social and Behavioral Sciences

95.An Analysis of Audit Committee Compensation Pre and Post the Sarbanes-Oxley Act of 2002

Zach Smith

Mentor: Richard Turpen, Accounting

96.Government Leadership and Economic Performance

Robert Timmerman

Mentor: Sarah Culver, Economics

Service Learning

97. AIDS Alabama Health Literacy: Multi-Media Module on Psychotropic Medications

Belena Whittington

Mentor: Teena McGuinness, Nursing

98. NAMI Serves Birmingham: Process Evaluation of the Effectiveness of the Family2Family Program

Simone Durand

Mentors: Teena McGuinness, Jean Ivey, and Jill Ross, Nursing

99. Service Learning with Aquatics Programs at the Lakeshore Foundation

Amber Giddens

Mentor: Teena McGuinness, Jill Ross, and Jean Ivey, School of Nursing

Honors Academy Leadership (HAC) Projects

100. Honors Academy Tutoring Service (HATS)

Benjamin Echols, Heather Cain, and Luay Matalaka

HAC 301 Project

101. Science Olympiad Auxiliary Group

Steven Walker and Jake Fletcher

HAC 301 Project

102. NorthStar Soccer: Charity for a Greater Goal

Tory Saunders, Bobby Sistani, Michael Hang, and Sequince Baker

HAC 301 Project

103. Health Awareness Through Art

Ayushi Amin, Madhuri Patel, and Bhumika Patel

HAC 301 Project

104. Health Literacy: The Silent Pandemic

Helen Lin and Vinuta Mayakonda

HAC 301 Project

105. 2011 Alabama Brain Bee

Zeke Byrom, Russell Fung, Nick Kim, Sean Pool, Kantidara Tjiang, and Harrison To

HAC 301 Project

106. Research Board: An Example of Peer Mentoring in Undergraduate Research

Atbin Doroodchi and Jonathan Patrick

HAC 301 Project

107. UAB Honor's Program Week

Krystine Whaley and Caleb Jones

HAC 301 Project

108. Tap-out Reach-out

Shelby Mullins, Devin Broadwater, and Lauren Ashley

HAC 301 Project

109. Changing Lives Through Science and Wonder

Kavita Nadendla

HAC 301 Project

110. LEGO Robot League

Sergey Antipenko

HAC 301 Project

111. Honoring the Fight Against Cancer

Lauren Beauchamp

HAC 301 Project

112. Mentorship Program at Lakeshore Foundation

Dhara Shah

HAC 301 Project

113. UAB Regional Science Fair SciTech Award

Eric Askelson, Patrick Butler, and Brandon Kirkland

HAC 301 Project

114. Manicure Fundraiser Event for ACT Today

Caitlin Cox, Jessie Chu, Seon Lee

HAC 301 Project

Oral Presentations

Heritage Hall Room 422

9:00 Teaching Personalized Medicine to Business Students

Nikita Maladkar

Mentor: Stephen Yoder, Business

9:15 Leveraging Regional Clusters for Urban, Economic Development

Daniel Phillips

Mentor: Stephen Yoder, Business

9:30 Women in Politics, Progressing or Regressing and What Now?

Courtney Foster

Mentor: Rita Stewart-Hampton, Business

9:45 Executive Compensation in the Financial Sector: An Analysis of Compensation for Corporations that Received TARP Funds

Christopher Pendergraft

Mentor: Steve Grice, Business

10:00 American Leadership in Developing Countries

Andrei Fana

Mentor: Nuo Xu, Business

10:15 Blue-Printing Synergy: The Effects of Architecture and Design on Teamwork

Krish Varma

Mentor: Stephen Yoder, Business

10:30 Current Threats to Information Security: A Delphi Study

Daniel Fortenberry

Mentor: James L. Worrell, Accounting and Finance

Oral Presentations

Heritage Hall Room 524

9:00 Whistleblowers: A Closer Look at Anonymous Reporting

Adam Arnold

Mentor: Ollie Powers, Accounting

9:15 The Royal Marine Pavilion at Brighton: An Influence of Tourism

Courtney Spencer

Mentor: Carolyn Conley, History

9:30 Pellagra and Thomas Spies' Work on Pellagra

Alicia Bryant

Mentor: Pamela Sterne King, History

10:15 UAB's Anthro-Teach Program and the Globalization of the South

Meagan Griffin

Mentors: Sharyn Jones and Robert Corley, Anthropology

10:30 U.S. Housing and the Government's Effect

Eric Klacik

Mentor: Stephanie Rauterkus, Finance

10:45 Effective Employee Training: A Link to an Ethical Work Environment

Stephanie Cunningham

Mentor: Scott Boyar, Management

Oral Presentations

Heritage Hall Room 548

9:00 Aggressiveness of Treatment Prescribed for Depression by Primary Care Physicians as a Function of Age, Sex, and Race

Steven Wise

Mentors: Cullen Clark and Casey Borch, Sociology and Social Work

9:15 Terrorism and the Social Construction of Meaning

Joshua Pawlik

Mentor: Renato Corbetta, International Studies and Government

9:30 Correlation Between Income Inequality and Cardiovascular Disease

Sarah Khalidi

Mentor: Belinda Needham, Sociology and Social Work

9:45 Attitudes of Religious Caregivers Toward the Homeless

Lauren Tarr

Mentor: Jeffrey Michael Clair, Sociology and Social Work

10:00 The Interaction of Offender and Victim Gender on Bullying

Meredith Wilks and Suzanne Perumean-Chaney

Mentor: Suzanne Perumean-Chaney, Justice Sciences

10:15 Motives for Prescription Stimulant Use in UAB's Undergraduate Population

Kelly Watson

Mentor: Harry Hamilton, Sociology

10:45 The Reformist and the Revolutionary: Justice in Richard Rorty's Philosophy Versus A Postmodern Account

Marc Parker

Mentor: Steven Hendley, Philosophy

Oral Presentations

Heritage Hall Room 227

9:00 Algo Como La Muerte: Resurrección en La Vida de Lazarillo de Tormes

Ashley Jones

Mentor: John Moore, Foreign Languages and Literatures

9:15 Making Meaning Without Meaning: a Linguistic Approach to the Poetry of Gertrude Stein

Patrick Cochran

Mentor: Kieran Quinlan, English

9:30 The Significance of House-elves in Harry Potter

Erin Hulsey

Mentor: Tracey Baker, English

9:45 Words of Love; or, Lorca as Other: Connecting Queer Positionalities across Time

Andrew Cook

Mentors: Sheri Spaine Long and Lamia Zayzafoon, Foreign Languages and Literatures

10:00 The Effect of the Awareness of Emotional Valence on the Startle Response in Humans

Zachariah Reagh and David Knight

Mentor: David Knight, Psychology

10:15 Frontotemporal Dementia (FTD) Progranulin Deficiency and Mouse Model

Allen Young, Anthony Filiano, and Erik Roberson

Mentor: Erik Roberson, Neurodegeneration and Experimental Therapeutics

10:30 **John Stuart Mill: Individual Liberty under the Restraint of Imperialism**

Erik Fennell

Mentor: Wendy Gunther-Canada, Political Science

Oral Presentations

Heritage Hall Room 549

9:00 **An Assay for Observing E. coli ClpA ATP Hydrolysis**

Zachariah Ingram, JiaBei Lin, Justin Miller, Keith Veronese, and Aaron Lucius

Mentor: Aaron Lucius, Chemistry

9:30 **Epigenetic reactivation of Estrogen Receptor- α (ER α) by bioactive dietary compounds in an ER α -negative breast tumor xenograft *in vivo* model**

Shweta Patel, Syed Meeran, Yuanyuan Li, and Trey Waltman

Mentor: Trygve Tollefsbol, Biology

9:45 **Low-dose bafilomycin attenuates the accumulation of amyloid precursor protein and its cleavage products induced by lysosome dysfunction.**

Charles Taylor

Mentor: John J. Shacka, Pathology

10:00 **Isoperimetric Problem on Bounded Domains in Plane**

Zachariah Ingram

Mentor: Jun-fang Li, Mathematics

10:15 **Vermiculture – Useful Garbage**

Naveed Farrukh, Sharmin Anwer, and Amiya Ahmed

Mentor: Todd Devore, Neuroscience

Films

Heritage Hall Room 571

9: 00 **Diamondback Terrapin: The Brackish Water Turtle**

Ingrid Pfau

Mentor: Thane Wibbels, Biology

9:15 **Trabajadores – Ethnographic Film**

Inocencio Chavez and Lacey Kennedy

Mentors: Michele Forman and Rosie O’Beirne, Digital Communication Studies