



2016 Summer Research Symposium

Thursday, July 28 from 1:30 – 3:00 pm
University of South Carolina Alumni Center

South Carolina Alliance for Minority Participation Program

1 – Studying the Correlation Between Surface Magnetism and Magnetic Stiffness via Vibrating Sample Magnetometer and a Benchtop Hall Probe

Dalvin Belton, Midlands Technical College, Mechanical Engineering - Sophomore

Mentor: Dr. Scott Crittenden, Physics and Astronomy

2 - Analysis of Inflammatory Molecules in Prostate Cancer

Alkeiver Cannon, University of South Carolina-Columbia, Biochemistry and Molecular Biology - Senior

Mentors: Dr. Dev Karan, Pathology, Microbiology and Immunology

Dr. Seema Dubey, Pathology, Microbiology and Immunology

3 – Characterizing Complex Fluids through Particle Tracking

Cameron Chandler, Midlands Technical College, Engineering – Sophomore

Mentor: Dr. Paula Vasquez, Mathematics

4 - Osteon-Mimetic Scaffolds through Rapid Prototyping

Janay Clytus, University of South Carolina-Columbia, Biological Sciences - Junior

Mentor: Dr. Esmail Jabbari, Chemical Engineering

5 - I Know What You Did Last Week! Privacy of Wearable Devices

Jaymel Dash, University of South Carolina-Columbia, Computer Science – Junior

William Wood, University of South Carolina-Columbia, Computer Information Systems – Junior

Mentor: Dr. Csilla Farkas, Computer Science and Engineering

6 – Manufacturing and Characterization of Degradation in Sandwich Composite after Impact Loading

Dominique Davis, University of South Carolina-Columbia, Mechanical Engineering – Sophomore

Mentors: Dr. Prasun Majumdar, Mechanical Engineering

Jallisa Clifford, Mechanical Engineering

7 – Optimizing the Software Behind Using Tweets to Predict Election Results

Aida El Kouri, University of South Carolina-Columbia, Computer Science – Sophomore

Mentor: Dr. Amir Karami, Library and Information Science

8 – The Effects of High Fat Diet on Skeletal Muscle Oxidative Metabolism and Mitochondrial Dysfunction

Deadrake Epps, University of South Carolina-Columbia, Biological Sciences - Sophomore

Mentor: Dr. James Carson, Exercise Science

9 - Sustainable Polymers from Plant Oils

Ayi Eta, University of South Carolina-Columbia, Biochemistry and Molecular Biology - Junior

Mentor: Dr. Chuanbing Tang, Chemistry and Biochemistry

10 – Comparing Different Unsupervised Machine Learning Algorithms for Phase Mapping

Alvin Fersner, University of South Carolina-Columbia, Chemical Engineering – Sophomore

Mentor: Dr. Jason Hattrick-Simpers, Chemical Engineering

11 – Examination of Periodontal Disease and Ischemic Stroke Risk in PREMIERS

Whitney Free-Jenkins, University of South Carolina-Columbia, Biological Sciences – Sophomore

Mentor: Dr. Souvik Sen, School of Medicine

12 – Scheduling Outlooks

Christopher Glenn, University of South Carolina-Columbia, Computer Information Systems – Senior

Mentor: Dr. Manton Matthews, Computer Science and Engineering

13 – Using Bead-Based Synthetic Lectin Libraries to Distinguish between Healthy and Cancerous Secreted Proteins Derived from the Colon

Alyssia Grundy, University of South Carolina-Columbia, Chemistry – Junior

Mentor: Dr. John Lavigne, Chemistry and Biochemistry

14 – Dam Failures from the October 2015 Historic Flood Event in South Carolina

Javonté Isaac, University of South Carolina-Columbia, Civil Engineering – Senior

Mentor: Dr. Inthuorn Sasanakul, Civil and Environmental Engineering

15 – Structural-Based Design of Inhibitors of Protein-Protein Interactions

Zachary Jackson, Midlands Technical College, Computer Technology - Sophomore

Mentor: Dr. Campbell McInnes, Drug Discovery and Biomedical Sciences

16 – Constitutive Expression of EntCEBA Protects Against Nickel Toxicity in *E. Coli*

Alsten Jones, University of South Carolina-Columbia, Biochemistry and Molecular Biology - Senior

Mentors: Dr. Wayne Outten, Chemistry and Biochemistry

Clorissa Washington, Chemistry and Biochemistry

17 – Super Resolution Bioimaging for Biomedical Engineering

Kenneth Legette, University of South Carolina-Columbia, Mechanical Engineering – Sophomore

Mentor: Dr. Guiren Wang, Biomedical Engineering & Mechanical Engineering

18 – GR-14-05 PV Inverter Control to Sustain High Quality of Service

Briana Luckey, University of South Carolina-Columbia, Electrical Engineering – Senior

Mentor: Dr. Andrea Benigni, Electrical Engineering

19 – Examination of Mitochondrial DNA Integrity to Identify Mitochondrial Repair Pathways

Robyn Moraney, University of South Carolina-Columbia, Biological Sciences – Junior

Mentor: Dr. Michael Wyatt, Drug Discovery and Biomedical Sciences

20 – Dam Failures from the October 2015 Historic Flood Events

E'Lexus Nelson, University of South Carolina-Columbia, Civil Engineering – Senior

Mentor: Dr. Inthuorn Sasanakul, Civil and Environmental Engineering

21 – Influence of Surface Type and Release Location On Aerosol Transport and Deposition Pattern In Indoor Environments

Christian Pellet, University of South Carolina-Columbia, Civil Engineering - Junior

Mentor: Dr. Shamia Hoque, Civil and Environmental Engineering

22 – Fundamentals of Electrochemical Measurements and Applications in Solid Oxide Fuel Cells

Sterling Reese, Midlands Technical College, Electrical Engineering – Sophomore

Seth Dale, University of Florida, Chemical Engineering – Senior

Ben Gray, South Carolina Governor's School for Science and Mathematics

Mentors: Dr. Xiao-Dong Zhou, Chemical Engineering

Emir Dogdibegovic, Chemical Engineering

23 – Design, Fabrication, and Characterization of a Hybrid Wick Structured Heat Pipe

Errol Rochester, Midlands Technical College, Electrical Engineering - Sophomore

Mentor: Dr. Chen Li, Chemical Engineering

24 – Exploratory Study to Construct Workflows for the Construction and Analysis of Shared Databases

Sydney Sanders, University of South Carolina-Columbia, Civil Engineering – Sophomore

Mentor: Dr. Enrica Viparelli, Civil and Environmental Engineering

25 – Measuring the Lattice Parameters of Metal Oxide Nanostructures to Determine Criteria for Persistent Micelle Templates

Christopher Scott, Midlands Technical College, Mechanical Engineering – Sophomore

Mentor: Dr. Morgan Stefik, Chemistry and Biochemistry

26 – Splitting Numbers of Coverings by Integer Tiles

Caleb Simmons, University of South Carolina-Columbia, Mathematics – Junior

Mentors: Dr. Joshua Cooper, Mathematics

Gregory Clark, Mathematics

27 – Determining the Degradation Along the Length of Quarter Inch Polyester Urethane Magnetic Tapes Using ATR FT-IR Spectroscopy

Aleah Singleton, University of South Carolina-Columbia, Biological Sciences – Senior

Mentors: Dr. Stephen Morgan, Chemistry and Biochemistry

Alyssa Abraham, Chemistry and Biochemistry

28 – An Integrated Cloud Computing Business Model

Yohance Thomas, University of South Carolina-Columbia, Integrated Information Technology – Sophomore

Mentor: Dr. Karen Patten, Integrated Information Technology

29 – Tool Path Generation on Doubly-Curved Free-Form Surfaces

Alexander Zuloaga, University of South Carolina-Columbia, Mechanical Engineering – Senior

Mentor: Dr. Ramy Harik, Mechanical Engineering

Center for Colon Cancer Research Summer Undergraduate Minority Research Program

30 – Determining the Effects of STN1 Depletion on DNA Replication Initiation Factors

Jazmine Benjamin, University of South Carolina-Aiken, Biology - Senior

Mentors: Dr. Jason Stewart, Biological Sciences

Katie Brady, Biological Sciences

31 – Fluorescence Polarization as a Measure of the Inhibition of Polo-like Kinase 1

Cecilia Hurtado, Williams College, Chemistry - Senior

Mentor: Dr. Michael Wyatt, Drug Discovery and Biomedical Sciences

32 - Evaluating Recruitment, Training, and Technical Assistance Approaches to Support Implementation of the HEALS Program

Jaleel Jefferson, University of South Carolina-Columbia, Public Health- Junior

Mentor: Dr. Heather Brandt, Health Promotion Education and Behavior

33 – CDK7 Inhibition in Breast Cancer Therapy

Theresa Melendez, Winthrop University, Chemistry – Senior

Mentor: Dr. Eugenia Broude, Drug Discovery and Biomedical Sciences

34 - Using Bead-Based Synthetic Lectin Libraries to Distinguish Between Healthy and Cancerous Secreted Proteins Derived from the Colon

Danielle Valdez, Monmouth University, Chemistry – Senior

Mentor: Dr. John Lavigne, Chemistry and Biochemistry

35 - DDX24 Depletion-Mediated p21 Activation and Inhibition of Cell Growth

Adrian Zenteno, Clemson University, Bioengineering - Junior

Mentor: Dr. Michael Shtutman, Drug Discovery and Biomedical Sciences

Research Experiences for Undergraduates: Physics and Astronomy

36 – Diffracting Data: Analyzing Diffraction Patterns of Magnetically-Recorded Information

Claire Bernert, Occidental College, Physics – Junior

Mentor: Dr. Thomas Crawford, Physics and Astronomy

37 – Modeling the Behavior of Charged Particles in a Cloud Chamber

Zachary Carter, University of South Carolina-Columbia, Physics – Junior

Mentor: Dr. Scott Crittenden, Physics and Astronomy

38 – Magnetometry of Perpendicularly Magnetized Magnetic Films: Sensitivity to Angle

Raina Crawford, Bryn Mawr College, Physics – Junior

Mentors: Dr. Thomas Crawford, Physics and Astronomy

Sarah Fitzgerald, Physics and Astronomy

39 – Response of *Chlamydomonas Reinhardtii* CC-125 Algal Cultures to Flashing Light in Thin-Plate Bioreactors

Alexander Davis, University of South Carolina-Columbia, Physics – Senior

Mentor: Dr. Scott Crittenden, Physics and Astronomy

40 – Optimization of a Simple Projection Photolithography System: Impact of Exposure Parameters on Feature Size

Phillip Kane, Grinnell College, Physics – Junior

Mentor: Dr. Thomas Crawford, Physics and Astronomy

41 – Examining the Circumgalactic Medium of Low-Redshift Galaxies

Alexander Kirby, University of South Carolina-Columbia, Physics – Sophomore

Mentor: Dr. Varsha Kulkarni, Physics and Astronomy

42 – The Effects of Temperature Parameters on Cloud Formation in a Tall Diffusion Cloud Chamber

Alexander Layton, University of South Carolina-Columbia, Physics – Senior

Mentor: Dr. Scott Crittenden, Physics and Astronomy

43 – Observations of Sub-Damped Lyman- α Absorber at $z = 2.636$

Jo Lynn Tyner, Austin Peay State University, Physics - Sophomore

Mentor: Dr. Varsha Kulkarni, Physics and Astronomy

44 – Synchrotron Processes with Lorentz Violating Dispersion Relations

Brian Weaver, The Pennsylvania State University, Astronomy and Astrophysics – Senior

Joseph Kroeger, Wingate University, Mathematics and Chemistry

Mentor: Dr. Brett Altschul, Physics and Astronomy

Research Experiences for Undergraduates: Advancing Diversity in Aging Research

45 – Isolation and Characterization of Bacteriophages that Infect *Caulobacter*

Kristy Abney, University of South Carolina-Columbia, Biochemistry and Molecular Biology – Sophomore

Mentor: Dr. Bert Ely, Biological Sciences

46 - Assistive Exercise Robot Instructor

Dane Acena, Benedict College, Computer Science - Junior

Mentors: Dr. Jenay Beer, Computer Science and Engineering & College of Social Work

Karina Liles, Computer Science and Engineering

47 – Fall Detection in Older Adults

Haregot Gebreyesus, Benedict College, Electrical Engineering - Junior

Mentor: Dr. Juan Caicedo, Civil and Environmental Engineering

48 - Investigation of Dioxin (TCDD) Mediated Regulation of miRNAs in Granulocytic Myeloid-Derived Suppressor Cells (MDSCs) and Granulocytes

Dominique Jackson, Claflin University, Biochemistry - Junior

Mentor: Dr. Narendra Singh, Pathology Microbiology and Immunology

49 - The Acceptance of Smart Home Technology among Older Adults

Emmanuel Lee, Morris College, Biological Sciences - Junior

Mentors: Dr. Jenay Beer, Computer Science and Engineering & College of Social Work

50 - Effects of Sleep Restriction on Daily Physical Activity During Dietary Weight Loss

Steilan Sumpter, Claflin University, Biology - Junior

Mentor: Dr. Xuewen Wang, Exercise Science

Research Experiences for Undergraduates: Radioecology

(USC Upstate, University of Georgia and Savannah River Ecology Laboratory joint program)

51 - Bioaccumulation of Radiocesium and Mercury in Diving and Dabbling Ducks on the Savannah River Site

Sarah Abercrombie, Purdue University, Wildlife – Senior

Mentors: Dr. James Beasley, Savannah River Ecology Laboratory

Chris Leaphart, Savannah River Ecology Laboratory

E.J. Borchert, Savannah River Ecology Laboratory

Larry Bryan, Savannah River Ecology Laboratory

52 – Radionuclide Leaching from Reducing Cementitious Materials

Jill Banach, University of Massachusetts, Environmental Science - Junior

Mentors: Dr. John Seaman, Savannah River Ecology Laboratory

Fanny Coutelot, Savannah River Ecology Laboratory

53 – Bioaccumulation of Cs-137 in Florida Green Watersnakes (*Nerodia floridana*) from Three Wetlands on the Savannah River Site

Kyle Brown, University of South Carolina-Upstate, Biology – Senior

Michaela Lambert, University of Kentucky, Natural Resources & Environmental Science - Senior

Amelia Russell, University of South Carolina-Upstate, Biology – Senior

Mentors: Dr. Tracey Tuberville, Savannah River Ecology Laboratory

Dr. Melissa Pilgrim, University of South Carolina-Upstate

54 – Influence of long-term Environmental Contamination and Parental Body Burden on Metal Tolerance in Southern Toads (*Anaxyrus terrestris*)

Deonte Burston, Fort Valley State University, Biology – Senior

Mentors: Dr. Stacey Lance, Savannah River Ecology Laboratory

Wes Flynn, Savannah River Ecology Laboratory

Cara Love, Savannah River Ecology Laboratory

David Scott, Savannah River Ecology Laboratory

55 – Multiple Stressors in Larval Anurans: Ranavirus and Chronic Copper Exposure

Sheldon Davis, Clemson University, Wildlife and Fisheries Biology – Senior

Mentors: Dr. Stacey Lance, Savannah River Ecology Laboratory

Wes Flynn, Savannah River Ecology Laboratory

Cara Love, Savannah River Ecology Laboratory

David Scott, Savannah River Ecology Laboratory

56 – The Interaction of Radiation and Copper on the Incidence of Antibiotic Resistance

Christian Dicks, Claflin University, Biology – Junior

Mentors: Dr. J Vaun McArthur, Savannah River Ecology Laboratory

Paul Stankus, Savannah River Ecology Laboratory

57 – Internal CO₂ Change in Response to Photosynthetic Availability

Emily Edwards, University of Georgia, Biology – Senior

Mentors: Dr. Doug Aubrey, Savannah River Ecology Laboratory

Mackenzie Dix, Savannah River Ecology Laboratory

58 – Bioaccumulation and Biomagnification of Radiocesium in Littoral Zone Biota from a Cooling Reservoir on the Savannah River Site

Christina Fulghum, University of South Carolina-Aiken, Biology – Senior

Alexis Korotasz, Stetson University, Aquatic and Marine Biology - Senior

Mentor: Larry Bryan, Savannah River Ecology Laboratory

59 - Sublethal Effects of Cs-137 & Hg Contamination in Florida Green Watersnakes (*Nerodia floridana*)

Michaela Lambert, University of Kentucky, Natural Resources & Environmental Science - Senior

Kyle Brown, University of South Carolina-Upstate, Biology – Senior

Amelia Russell, University of South Carolina-Upstate, Biology – Senior

Mentors: Dr. Melissa Pilgrim, University of South Carolina-Upstate

Dr. Tracey Tuberville, Savannah River Ecology Laboratory

60 – Distribution of Trace Elements and Cs-137 in Sediments of a Coastal Plain Stream Impacted by Industrial Activities

Brooke Lindell, College of Charleston, Biology – Junior

Mentors: Dr. John Seaman, Savannah River Ecology Laboratory

Dean Fletcher, Savannah River Ecology Laboratory

61 – Effects of Parental and Early Life Exposure to Metals on Genome Methylation in Two Anuran Species

Nia Peak, Claflin University, Biology – Junior

Mentors: Dr. Stacey Lance, Savannah River Ecology Laboratory

Cara Love, Savannah River Ecology Laboratory

Wes Flynn, Savannah River Ecology Laboratory

David Scott, Savannah River Ecology Laboratory

62 – Tritium Partitioning in the Biosphere

Awmna Rana, Florida International University, Chemistry – Sophomore

Mentor: Dr. John Seaman, Savannah River Ecology Laboratory

63 – Mercury Bioaccumulation in Florida Green Watersnakes (*Nerodia floridana*) Among Three Wetlands on the Savannah River Site

Amelia Russell, University of South Carolina-Upstate, Biology – Senior

Kyle Brown, University of South Carolina-Upstate, Biology – Senior

Michaela Lambert, University of Kentucky, Natural Resources & Environmental Science - Senior

Mentors: Dr. Tracey Tuberville, Savannah River Ecology Laboratory

Dr. Melissa Pilgrim, University of South Carolina-Upstate

Science, Technology, Engineering and Mathematics

64 – Theory-Driven Synthesis of Surface-Modified Nanoparticles for Biochemical Applications

Jacob Baltzgar, University of South Carolina-Columbia, Chemical Engineering - Sophomore

Mentor: Dr. Melissa Moss, Chemical Engineering

65 – Effects of Intranasal Orexin Administration on Neuronal Activation in the Brain Stem

Habiba Fayyaz, University of South Carolina-Columbia, Biological Sciences - Junior

Mentor: Dr. Jim Fadel, Pharmacology, Physiology, and Neuroscience

66 – Cell Proliferation in Pituitary Development

Erin Kalb, University of South Carolina-Columbia, Mathematics – Junior

Mentor: Dr. Paula Vasquez, Mathematics

67 – Contribution of Mast Cells to Angiogenesis in Pre-Symptomatic Atopic Dermatitis

Nabihah Kumte, University of South Carolina-Columbia, Public Health – Sophomore

Mentors: Dr. Carole A. Oskeritzian, Pathology Microbiology and Immunology

Dr. John W. Fuseler, Pathology Microbiology and Immunology

68 – Multidentate Polymer Ligands for Biocompatible Quantum Dots: Does Sequence Matter?

Abigail Loszco, University of South Carolina-Columbia, Chemistry and Molecular Biology – Senior

Mentor: Dr. Andrew Greytak, Chemistry and Biochemistry

69 - Investigation of THC-Mediated up Regulation in Mice Myeloid-Derived Suppressor Cells

Arianna Miskin, University of South Carolina-Columbia, Psychology – Senior

Mentor: Dr. Narendra Singh, Pharmacology, Physiology, and Neuroscience

70 - Theoretical Investigation of the Hydrodeoxygenation of Glycerol over Pt(111)

Adam Yonge, University of South Carolina-Columbia, Chemical Engineering - Senior

Mentor: Dr. Andreas Heyden, Chemical Engineering

Research Experiences for Undergraduates: Chemical Engineering

71 – A High Throughput Investigation of Metallic Glass Stability in Co-Fe-V-Zr Alloys

Audrey Allen, Worcester Polytechnic Institute – Senior

Mentors: Dr. Jason Hattrick-Simpers, Chemical Engineering

Travis Williams, Chemical Engineering

72 – Electroless Deposition of Nickel for the Synthesis of Mo₂C Dry Reforming Catalyst

Khalid Askar, University of South Carolina-Columbia, Chemical Engineering – Senior

Mentor: Dr. John Regalbuto, Chemical Engineering

73 - Characterization and Stability of Metal Oxide Supported Cobalt Nanorod Catalysts for CO₂ Hydrogenation

Ashley Bird, University of Texas, Chemical Engineering - Junior

Mentor: Dr. Miao Yu, Chemical Engineering

74 - Synthesis and Characterization of Nickel Catalysts for Methane Tri-Reforming

Nicole Cordonnier, Ohio University, Chemical Engineering - Senior

Mentors: Dr. Jochen Lauterbach, Chemical Engineering

Dr. Erdem Sasmaz, Chemical Engineering

75- The Role of Particle Size and Partial Pressure on Phase Evolution in Praseodymium Nickelates

Seth Dale, University of Florida, Chemical Engineering – Senior

Sterling Reese, Midlands Technical College, Electrical Engineering – Sophomore

Ben Gray, South Carolina Governor’s School for Science and Mathematics

Mentors: Dr. Xiao-Dong Zhou, Chemical Engineering

Emir Dogdibegovic, Chemical Engineering

76 - Optimizing Ultrathin Graphene Oxide Membranes Supported on Polyethersulfone Hollow Fibers for CO₂ Capture from Flue Gas

Ethan Hicks, North Carolina State University, Chemical Engineering - Senior

Mentor: Dr. Miao Yu, Chemical Engineering

77 – Hydrothermal Stability of Silica Catalysts for Lignin Upgrading

Matthew Hornish, Rowan University, Chemical Engineering – Senior

Mentors: Dr. John Regalbuto, Chemical Engineering

Dr. John Tengco, Chemical Engineering

78 – Surface Spectroscopic Study of Renewable Ethylene Glycol Synthesis over Silicon Dioxide-Supported

Robert Lavroff, Northwestern University, Chemical Engineering – Junior

Mentor: Dr. Christopher Williams, Chemical Engineering

79 – Effect of Solvents on the Activity of the Transition Metal Catalyst, Pt(111), for the Hydrodeoxygenation of Propionic Acid

Madeline Ley, Oklahoma State University, Chemical Engineering - Senior

Mentors: Dr. Andreas Heyden, Chemical Engineering

Wenqiang Yang, Chemical Engineering

Mohammad Shamsus Saleheen, Chemical Engineering

80 – Multiplexing Techniques for High-Throughput Gas Chromatography

Laurence Lohman, University of Rochester, Chemical Engineering – Senior

Mentors: Dr. Jochen Lauterbach, Chemical Engineering

Dr. Erdem Sasmaz, Chemical Engineering

Jonathan Kenneth Bunn, Chemical Engineering

81 – Modification and Testing of the Hybrid Sulfur System

Jacob Mehlhoff, University of Wisconsin, Chemical Engineering – Senior

Mentors: Dr. John Weidner, Chemical Engineering

Dr. Sirivatch Shimpalee, Chemical Engineering

Cody Wilkins, Chemical Engineering

82 - Pt-Ru/C Catalysts Preparation by SEA and ED Method for Methanol Oxidation

Pimolrat Mittanonsakul, Mahidol University, Thailand, Chemistry - Senior

Mentors: Dr. John Weidner, Chemical Engineering

Dr. Sirivatch Shimpalee, Chemical Engineering

Bahareh Tavakoli, Chemical Engineering

83- Study of the CO and the CO₂ IR Spectra on Co Catalyst

Nutthatida Phuangsaikai, Chiang Mai University, Thailand, Chemistry - Senior

Mentor: Dr. Cun Wen, Chemical Engineering

84 – Removal of Mercury from Coal Combustion Flue Gas Using Activated Carbon

Michael Royko, University of Alabama, Chemical Engineering – Senior

Mentors: Dr. Bihter Patak, Chemical Engineering

Benjamin Galloway, Chemical Engineering

85 – Single-Site Ruthenium Catalysts for CO₂ Hydrogenation

Stephanie Sanchez, Drew University, Chemical Engineering

Mentor: Dr. Jochen Lauterbach, Chemical Engineering

86 – The Effect of Catalyst Nanoparticle Support Structure on Thermal Stability

Morgan Sulzbach, University of Maryland, Chemical and Biomolecular Engineering - Junior

Mentors: Dr. John R. Regalbuto, Chemical Engineering

Dr. John Tengco, Chemical Engineering

Qiuli Liu, Chemical Engineering

Andrew Wong, Chemical Engineering

87 - Solvation Effects in the Hydrodeoxygenation of Guaiacol over a Model Ru(0001) Catalyst

Utid Suriya, Chiang Mai University, Thailand, Chemical Engineering - Senior

Mentors: Dr. Andreas Heyden, Chemical Engineering

Mohammad Shamsus Saleheen, Chemical Engineering

88 – Catalytic Functional Membrane

Pimchanok Tapangpan, Chiang Mai University, Thailand, Chemistry – Senior

Mentors: Dr. Christopher Williams, Chemical Engineering

Nabi Shakouri, Chemical Engineering

89 – Adsorption of Platinum on Carbon Supports

Warinda Tirdtrakool, Mahidol University, Thailand, Chemistry - Junior

Mentors: Dr. John Regalbuto, Chemical Engineering

Ritubarna Banerjee, Chemical Engineering