DEGREE CANDIDATES

College of Agriculture and Natural Resources

Dean Robin W. Morgan

Doctor of Philosophy

Christopher Maurice Heckscher

Entomology & Wildlife Ecology

B.S., Colorado State University

M.S., University of Delaware

Dissertation: Use of the Veery (Catharus Fuscescens) Call Repertoire

in Vocal Communication

Professor in charge of dissertation: Roland R. Roth, Ph.D.

Jason Adam Mills

Animal Science

B.S., University of Delaware

M.S., University of Nebraska, Lincoln

Dissertation: Cytokine and Growth Factor Networks Associated with Epidermal-Mesenchymal Cell Interactions During

Keratinocyte-Stem Cell Growth in the Bovine Claw

Professor in charge of dissertation: Robert M. Dyer, V.M.D., Ph.D.

Kristian William Paul

Plant & Soil Sciences

B.S., Montana State University, Bozeman

Dissertation: Molecular Modeling Study of Sulfate and Phosphate

Adsorption at the Mineral-Water Interface

Professor in charge of dissertation: Donald L. Sparks, Ph.D.

Luisa Ines Santamaria

Plant & Soil Sciences

B.S., Pontificia Universidad Católica del Ecuador

M.S., University of Delaware

Dissertation: Evaluation of Lima Bean (Phaseolus lunatus) Germplasm for Resistance to Downy Mildew, Epidemiological and Biological Studies of its Causal Agent, Phytophthora phaseoli

Professor in charge of dissertation: Thomas A. Evans, Ph.D.

Andrew Zachary Skibo

Plant & Soil Sciences

B.S., University of Delaware

Dissertation: The Evaluation of Selected 'Post'-Applied Herbicides for Control of Japanese Knotweed (*Polygonum Cuspidatum* Syn. *Fallopia Japonica* Syn. *Reynourtria Japonica*) and a Survey and Characterization of this Invasive Species in Delaware

Professor in charge of dissertation: Mark Isaacs, Ph.D.

COLLEGE OF ARTS AND SCIENCES

Dean Thomas M. Apple

Doctor of Physical Therapy

This degree is a professional degree and does not require the writing of a dissertation.

Erin Elizabeth Balmford B.S.H., Frostburg State

University

Elizabeth Diane Bauske B.S.H.S., University of Illinois, Urbana – Champaign

Jennifer Lee Binkley

B.A., University of Delaware

Janelle Kristen Cannon

B.A., University of Delaware

Jessalyn Ann Ciampa

B.S., State University of New York, Geneseo

Kathryn Gray Curtis

B.S., Evangel University

Catalina Dee Suriben David

B.A., University of California, Irvine

Tyesha Monique Dwight

B.A., University of Delaware

Kyle T. Fennemore

B.A., University of Delaware

B.S., University of Delaware

Lakisha Freeman Fulton

B.S., Pennsylvania State University

Lauren Elizabeth Grieder

B.A., University of Delaware

Thomas Andrew Handling

B.A., University of Delaware

B.S., University of Delaware

Krista Ann Horne

B.S., University of Delaware

Christine Lynn Keighley

B.S., University of Delaware

Samantha Joy Lefkowitz

B.S., Ohio State University

Karrie Lowry

B.S., University of Delaware

Valerie Jean Martineau

B.S., College of William

and Mary

Faith Virginia Morton

B.S., Grove City College

Krystal Lynn Perrone

B.A., Arcadia University

Melissa Jean Ronan

B.S., Boston University

Lisa Rochelle Saltzman

B.A., University of Virginia

Jennifer Ann Schmidt

B.S., University of Delaware

Matthew Gerard Scott

B.A., University of Delaware

Julienne Rose Sinkosky

B.S., University of Delaware

Tiffany Sue Strawn

B.S., Texas Christian University

Kelsey Lee Vagnoni

B.S., University of Delaware

Rachel L. Whitlock

B.S., University of Delaware

Jennifer Marie Zambito

B.S., University of Delaware

Teresa L. Zoltak

B.S., University of Delaware

Doctor of Philosophy

Shalini Balakrishnan

Chemistry & Biochemistry

B.Sc., University of Madras, India

M.SC., University of Madras, India

Dissertation: Development of Novel Switchable Motifs and New

Strategies to Build Functionally Privileged Structures

Professor in charge of dissertation: Neil J. Zondlo, Ph.D.

Jon Regan Beckham

Applied Mathematics

B.S., University of Central Arkansas

M.S., University of Delaware

M.A., University of Central Arkansas

Dissertation: Analysis of Mathematical Models of Electrostatically

Deformed Elastic Bodies

Professor in charge of dissertation: John A. Pelesko, Ph.D.

Amy Irene Cass

Sociology

B.S., Florida State University

M.A., University of Delaware

Dissertation: Individual Perceptions of Stalking: An Examination of the Influence of Gender and the Victim/Offender Relationship Professor in charge of dissertation: Ronet Bachman, Ph.D.

Abdullah Ceylan

Physics

B.S., Hacettepe University, Turkey

Dissertation: Core/Shell Structured Magnetic Nanoparticles

Synthesized by Inert Gas Condensation

Professor in charge of dissertation: S. Ismat Shah, Ph.D.

Xiaoren Chen

Biological Sciences

B.Md., Chongqing University of Medical Science, China

M.Md., Chongqing University of Medical Science, China

Dissertation: Biochemistry of Proxl Function

Professor in charge of dissertation: Melinda K. Duncan, Ph.D.

Vesselina G. Cooke

Biological Sciences

B.S., Southwest Missouri State University

Dissertation: Role of Junctional Adhesion Molecule-A in Vascular Biology Professor in charge of dissertation: Ulhas Naik, Ph.D.

Tim V. Decker

English

B.A., Towson University

M.A., University of Delaware

Dissertation: Strategic Standards: Authorial Self-Presentation in

Restoration Literature

Professor in charge of dissertation: Lois Potter, Ph.D.

Jodi Anne Devine

B.S., Skidmore College

M.A., DePaul University

Dissertation: Epistolary Revelations: Reading Letters in Nineteenth-

Century British Novels

Professor in charge of dissertation: Carl Dawson, Ph.D.

Zhenzhen Dong

Chemistry & Biochemistry

B.S., Shanghai Jiaotong University, China

Dissertation: Synthesis of Two-Dimensional Scaffolds and Metallofoldamers *Professor in charge of dissertation:* Joseph M. Fox, Ph.D.

William Richard Donner

Sociology

English

B.A., Millersville University of Pennsylvania

M.A., University of Delaware

Dissertation: An Integrated Model of Risk Perception and Protective

Action: Public Response to Tornado Warnings

Professor in charge of dissertation: Havidán Rodríguez, Ph.D.

William Gaul Dougherty

Chemistry & Biochemistry

B.S., Ursinus College

Dissertation: Synthesis, Structure and Reactivity of Nickel-Nickel Complexes for Understanding the A Cluster in Acetyl Coenzyme A Synthase

Professor in charge of dissertation: Charles G. Riordan, Ph.D.

Paul J. Eder

Psychology

B.A., Loyola College

M.A., University of Delaware

Dissertation: Integrating the Componential and Interactionist Models of Employee Creativity

Professor in charge of dissertation: John E. Sawyer, Ph.D.

Darlene Farabee

English

B.A., Temple University

M.A., University of Delaware

Dissertation: Print Travels: Movement and Metaphor in the Early Modern Era

Professor in charge of dissertation: Stephen A. Bernhardt, Ph.D.

Genevieve Sophie Griffiths

Biological Sciences

B.A., University of Delaware

Dissertation: Investigating the Impact and Mechanism of Vesicular and Non-Vesicular Mediated GPI-Linked Protein Transfer From

Reproductive Luminal Fluids to Sperm, Using SPAM1 as a Model

Professor in charge of dissertation: Patricia A. Martin-DeLeon, Ph.D.

Mohamed Hassanein

Biological Sciences

B.S., Ain Shams University, Egypt

M.S., Delaware State University

Dissertation: Biochemical and Functional Characterization of a Novel

Placental Protease, Cathepsin P, in Rat Trophoblasts

Professors in charge of dissertation: Robert W. Mason, Ph.D.

Robert A. Sikes, Ph.D.

Stefanie Herron

English

B.A., University of Mary Washington

M.A., Virginia Commonwealth University

Dissertation: Willa Cather's Argument with Modernism: Unearthing Faith Amid the Ruins of War

Professor in charge of dissertation: Susan Goodman, Ph.D.

Thommen Korah

Computer Science

B.Tech., Cochin University of Science & Technology, India M.S., University of Delaware

Dissertation: Robust Spatiotemporal Analysis of Architectural Imagery Professor in charge of dissertation: Christopher Rasmussen, Ph.D.

Kevin Allen Kreisel

Chemistry & Biochemistry

B.S., Pennsylvania State University

Dissertation: Organochromium Chemistry with Formally Neutral,

Chelating Ancillary Ligands

Professor in charge of dissertation: Klaus Theopold, Ph.D.

Chin-Aik Lee

Physics

B.S., Lebanon Valley College

Dissertation: Selected Topics in Unified Field Theories Professor in charge of dissertation: Qaisar Shafi, Ph.D.

Margaret Elizabeth Leigev

Criminology

B.A., Indiana University of Pennsylvania

M.A., University of Delaware

Dissertation: Life While Serving Life: Examining the Correctional Experiences of Older Inmates Serving a LWOP Sentence

Professor in charge of dissertation: Ronet Bachman, Ph.D.

Melissa Manni

Psychology

B.S., Pennsylvania State University

M.A., University of Delaware

Dissertation: Full-Day Patterns of Cortisol Production Among

Toddlers in Child Care

Professor in charge of dissertation: Mary Dozier, Ph.D.

Elizabeth A. Mansley

Sociology

B.A., Saint Joseph's University

M.A., University of Delaware

Dissertation: "Man Up": Exploring the Relationship Between

Race, Social Class, Intimate Partner Violence And the

Construction of Masculinity

Professor in charge of dissertation: Susan Miller, Ph.D.

Paula Lynn McGinley

Chemistry & Biochemistry

B.S., Elizabethtown College

Dissertation: Molecular Complementation of Mutant Hormone Receptors

Professor in charge of dissertation: John Koh, Ph.D.

Christopher Michael Micklitsch

Chemistry & Biochemistry

B.S., Lycoming College

Dissertation: Designing Functional Materials Using the Hydrophobic

Face of a Self-Assembling Amphiphilic ß-Hairpin Peptide

Professor in charge of dissertation: Joel P. Schneider, Ph.D.

Michael Thomas Mock

Chemistry & Biochemistry

B.S., Villanova University

M.S., Villanova University

Dissertation: Synthesis and Reactivity of Thioether-Supported

Organoiron and Low-Valent Iron Complexes and Cyanide

Bridged Binuclear Complexes

Professor in charge of dissertation: Charles G. Riordan, Ph.D.

Maitreya Natu

Computer Science

B.E., Rajiv Gandhi Proudyogiki Vishwavidyalaya, India

M.S., University of Delaware

Dissertation: Application of Adaptive Probing for Fault Diagnosis in Computer Networks

Professor in charge of dissertation: Adarshpal S. Sethi, Ph.D.

Ann Mary O'Brien

Chemistry & Biochemistry

B.S., Sacred Heart University

Dissertation: Environmental Proteomics and Mass Spectrometry:

Characterization of Viable Microorganisms in Ambient Air

Professor in charge of dissertation: Murray V. Johnston, Ph.D.

Adebanjo Akinwummi Oriade

Physics

B.Sc., University of Jos, Nigeria

M.Sc., University Of Ibadan, Nigeria

Dissertation: Monte Carlo Study of Fluctuations and Magnetization

Reversal in Nickel-Iron Ferromagnetic Ultra-Thin Films

Professor in charge of dissertation: Siu-Tat Chui, Ph.D.

Jalvnn Olsen Padilla Robert Joseph Ronkese Applied Mathematics History B.A., Weber State University B.S., Union College New York M.A., University of Utah M.S., University of Delaware Dissertation: An Army of "Cripples": Northern M.S., Northwestern University Civil War Amputees, Disability, and Manhood Dissertation: The Analysis and Numerical Simulation of a in Victorian America Mathematical Model of Bone Remodeling Professor in charge of dissertation: Anne Boylan, Ph.D. Professor in charge of dissertation: Robert P. Gilbert, Ph.D. Psychology Jerome H. Pagani Ronnie Molly Rubin Psychology B.A., University of Rochester B.A., Wesleyan University M.A., University of Delaware M.A., University of Delaware Dissertation: The Medial Hypothalamic Defensive Dissertation: Children's Beliefs About Peer Relations: Circuit and Predator Odor Induced Fear: A Links to Peer Rejection, Depression, Aggression, and the Comparison of Electrolytic and Neurotoxic Lesions Beliefs of Parents and Teachers Professor in charge of dissertation: Jeffery B. Rosen, Ph.D. Professor in charge of dissertation: Julie A. Hubbard, Ph.D. Mahesh Kumar Pallerla Chemistry & Biochemistry Abdul K. Rumaiz **Physics** B.S., Sri Sathya Sai Institute of Higher Education, India B.S., University of Madras, India M.S., Sri Sathya Sai Institute of Higher Education, India M.S., Indian Institute of Technology, Madras Dissertation: Strain as a Design Principle — Steroselective Dissertation: Cobalt Doped TIO2, A Possible Candidate Pauson-Khand Reactions of Cyclopropenes for Dilute Magnetic Semiconductors Professor in charge of dissertation: Joseph M. Fox, Ph.D. Professor in charge of dissertation: S. Ismat Shah, Ph.D. Luis Abel Ralat Touset Chemistry & Biochemistry Anne Elizabeth Samuel Art History B.S., Millersville University of Pennsylvania B.A., University of Richmond Dissertation: Insights Into the Multiple Functions of M.A., University North Carolina, Chapel Hill Glutathione S-Transferase P1-1: Characterization Dissertation: Vision Conceptualized in the American of Its Several Ligand Sites and Examination of Its Renaissance Murals of Edwin Howland Blashfield Interactions with 1-Cysteine Peroxiredoxin Professor in charge of dissertation: Michael Leja, Ph.D. Professor in charge of dissertation: Roberta Colman, Ph.D. Computer Science David Carroll Shepherd Jason Edward Reiss Psychology B.S., Virginia Commonwealth University B.A., Wittenberg University M.S., University of Delaware M.A., University of Delaware Dissertation: Natural Language Program Analysis: Dissertation: Object Substitution Masking: What Is the Neural Fate Combining Natural Language Processing with of the Unreportable Target? Program Analysis to Improve Software Maintenance Professor in charge of dissertation: James E. Hoffman, Ph.D. Professor in charge of dissertation: Lori Pollock, Ph.D. Meghan Ashlin Rich Sociology B.A., University of Maryland Sara Elizabeth Sprenkle Computer Science M.A., University of Wisconsin, Milwaukee B.S., Gettysburg College Dissertation: Diversity Block by Block: Homeowners' M.S., Duke University Perceptions of Race, Class, and Neighborhood Change in an Dissertation: Strategies for Automatically Exposing Integrated Urban Neighborhood Faults in Web Applications Professor in charge of dissertation: Margaret L. Andersen, Ph.D. Professor in charge of dissertation: Lori Pollock, Ph.D.

Corey Michael Taylor

English

B.A., Ursinus College

M.A., University of Delaware

Dissertation: Ambiguous Sounds: African American Music

in Modernist American Literature

Professor in charge of dissertation: Susan Goodman, Ph.D.

Paula Vasquez

Mathematics

Engr., Universidad Nacional de Colombia

M.B.A., Goldey-Beacom College

Dissertation: Modeling Wormlike Micellar Solutions

Professor in charge of dissertation: L. Pamela Cook-Ioannidis, Ph.D.

Ni Yan

Chemistry & Biochemistry

B.S., Peking University, China

Dissertation: Stereoselective Carbometallation

Reactions of Cyclopropenes

Professor in charge of dissertation: Joseph M. Fox, Ph.D.

Liviu P. Zarbo

Physics

B.S., University of Cluj, Napoca, Romania

Cert., University of Cluj, Napoca, Romania

Dissertation: Mesoscopic Spin Hall Effect in

Semiconductor Nanostructures

Professor in charge of dissertation: Branislav K. Nikolic, Ph.D.

Ningyi Zhang

Applied Mathematics

B.S., Qingdao University, China

M.S., University of Delaware

Dissertation: Inverse Problem For Wave

Propagation in a Perturbed Layered

Half-Space and Orthogonality Relations

in Poroelastic Materials

Professor in charge of dissertation: Robert Gilbert, Ph.D.

Feng Zhou

Chemistry & Biochemistry

B.S., Fudan University, China

Dissertation: Protein Characterization by Capillary

Isoelectric Focusing Electrophoresis, Reversed

Phase Liquid Chromatography and

Mass Spectrometry

Professor in charge of dissertation: Murray V. Johnston, Ph.D.

Alfred Lerner College of Business and Economics

Dean Conrado M. Gempesaw II

Doctor of Philosophy

Olawole Nasser Yayl

Economics

M.A., University of Delaware

Mait., University of Lyons II, France

Dissertation: A Random Utility Model of Trout Fishing in Delaware

Professor in charge of dissertation: George R. Parsons, Ph.D.

Hong Yin

Yin Economics

B.E., Dong Hua University, China

M.S., Clemson University

Dissertation: Innovative Activity and Technological

Change in China and Its Regions: Evidence from

Chinese Domestic Patents

Professor in charge of dissertation: William R. Latham III, Ph.D.

College of Engineering Interim Dean Michael J. Chajes

Doctor of Philosophy

Albert Yawson Ayenu-Prah

Civil & Environmental Engineering

B.Sc., Kwame Nkrumah University of Science & Technology, Ghana

M.S., Texas Tech University

Dissertation: Emperical Mode Decomposition and

Civil Infrastructure Systems

Professor in charge of dissertation: Nii O. Attoh-Okine, Ph.D.

Steven Edward Bane

Chemical Engineering

B.S.E., University of Pittsburgh

Dissertation: Expression and Characterization of the

Human Neurokinin 1 Receptor From E. coli

Professor in charge of dissertation: Anne Skaja Robinson, Ph.D.

Laetitia Mary Bonnaillie

Chemical Engineering

Ing., Ecole Nationale Supérieure d'Ingénieurs en Genie

M.Ch.E., University of Delaware

Dissertation: Bio-Based Polymeric Foam from

Soybean Oil and Carbon Dioxide

Professor in charge of dissertation: Richard P. Wool, Ph.D.

Scott Edward Buzby

Materials Science & Engineering

B.S., University of Delaware

Dissertation: The Effect of Doping Titanium

Dioxide Nanoparticles on Phase

Transformation, Photocatalytic

Activity and Anti-Bacterial Properties

Professor in charge of dissertation: S. Ismat Shah, Ph.D.

Abhijit Chatterjee

Chemical Engineering

B.Tech., Indian Institute of Technology, Delhi

M.Tech., Indian Institute of Technology, Delhi

Dissertation: Nanoscale Modeling and Control

of Self-Assembled Nanoparticle Arrays

Using a Hierarchy of Multiscale Models

Professor in charge of dissertation: Dionisios G. Vlachos, Ph.D.

Yu-Chia Cheng

Chemical Engineering

B.S., National Taiwan University, Taipei

M.S., National Taiwan University, Taipei

Dissertation: Effects of Salts on the Phase

Behavior of Proteins and Protein Mixtures

Professor in charge of dissertation: Abraham M. Lenhoff, Ph.D.

Andre C. Dumetz

Chemical Engineering

M.Ch.E., University of Delaware

Dissertation: Protein Interactions and Phase

Behavior in Aqueous Solutions: Effects

of Salt, Polymer, and Organic Additives

Professor in charge of dissertation: Abraham M. Lenhoff, Ph.D.

Kelly Devon Hales

Materials Science & Engineering

B.S., Virginia Polytechnic Institute and State University

Dissertation: Design and Characterization of

Self-Assembled Nanostructures of Block

Copolymers in Solution

Professor in charge of dissertation: Darrin J. Pochan, Ph.D.

Biqin Huang

Electrical & Computer Engineering

B.S., Zhejiang University, China

M.S., University of Delaware

M.S., Zhejiang University, China

Dissertation: Vertical Transport Silicon Spintronic Devices

Professor in charge of dissertation: Ian Appelbaum, Ph.D.

Wei Huang

Chemical Engineering

B.S., Tsinghua University, China

M.Ch.E., University of Delaware

Dissertation: Selective Hydrogenation of Acetylene

on Zeolite-Supported Bimetallic Catalysts

Professor in charge of dissertation: Jingguang G. Chen, Ph.D.

Onur Yusuf Kas

Materials Science & Engineering

B.S., Middle East Technical University

M.S., Middle East Technical University

Dissertation: Design, Synthesis and Characterization

of Bio/Electroactive Hybrids: Confining

Chromophores in Dilute Solutions Using a

Helical Peptide Template

Professor in charge of dissertation: Mary E. Galvin, Ph.D.

Gary L. Katulka

Electrical & Computer Engineering

B.S.E.E., Wilkes University

M.E.E., University of Delaware

Dissertation: Fabrication and Characterization of

Structures and Rectifiers Based on Silicon Carbide

Alloyed with Germanium

Professor in charge of dissertation: James Kolodzey, Ph.D.

Joshua Ian Kramer

Electrical & Computer Engineering

B.Cp.E., University of Delaware

Dissertation: A Dynamic Power Optimization Methodology

for Gigabit Electrical Links

Professor in charge of dissertation: Fouad Kiamilev, Ph.D.

Matthew Steven Lamm

Materials Science & Engineering

B.S., Virginia Polytechnic Institute and State University

Dissertation: Molecular Self-Assembly: Design,

Synthesis and Characterization of

Peptidic Materials for Bio- and

Nano-Technologies

Professor in charge of dissertation: Darrin J. Pochan, Ph.D.

Myung Han Lee

Chemical Engineering

B.S., Hanyang University, Korea

M.S., Hanyang University, Korea

Dissertation: Microstructure and Microrheology

of Colloidal Gels

Professor in charge of dissertation: Eric M. Furst, Ph.D.

Iian Li

Electrical & Computer Engineering

Dan Su B.S., Shanghai Jiaotong University, China

M.S., Shanghai Jiaotong University, China

Dissertation: Microcrack Damage and Its Effect

on Stress Wave Propagation

Professor in charge of dissertation: Michael H. Santare

Reflectometry/Time Domain Transmission Computed Tomography (TDR/TDT CT)

B.E., Tsinghua University, China M.E., Tsinghua University, China

M.E.E., University of Delaware

Professor in charge of dissertation: Robert G. Hunsperger, Ph.D.

Dissertation: Theory and Application Methods of Time Domain

Shaoxin Lu

Electrical & Computer Engineering

B.E., Jilin University, China

M.E., Jilin University, China

Dissertation: Photomechanical Actuation of Carbon Nanotubes and Their Applications in Micro-Opto-Mechanical Systems

Professor in charge of dissertation: Balaji Panchapakesan, Ph.D.

Rovshan Mahmudov

Civil & Environmental Engineering

C.Sc., Azerbaijan State University

Engr., Azerbaijan State University

Dissertation: Removal and Destruction of Perchlorate

by Activated Carbon-Based Processes

Professor in charge of dissertation: Chin Pao Huang, Ph.D.

Kapil Mukati

Chemical Engineering

B.Tech., Indian Institute of Technology, Madras

Dissertation: An Alternative Structure for Next

Generation Regulatory Controllers and Scale-Up

of CU(INGA) SE2 Thin Film Co-Evaporative

Physical Vapor Deposition Process

Professor in charge of dissertation: Robert W. Birkmire, Ph.D.

Danielle Nicole Rockwood

Materials Science & Engineering

B.S., James Madison University

Dissertation: Characterization of Electrospun

Polymer Fibers for Applications in

Cardiac Tissue Engineering and

Regenerative Medicine

Professor in charge of dissertation: John F. Rabolt, Ph.D.

Christopher A Schuetz

Electrical & Computer Engineering

B.S.E.E., Virginia Polytechnic Institute and State University

M.E.E., University of Delaware

Dissertation: Optical Techniques for Millimeter-Wave

Detection and Imaging

Professor in charge of dissertation: Dennis Prather, Ph.D.

Wenzhong Tang

Mechanical Engineering

Mechanical Engineering

B.E., Beijing University of Chemical Technology, China

M.E., Beijing University of Chemical Technology, China

M.S.M.E., University of Delaware

Dissertation: Molecular Dynamics Simulations of

Carbon Nanotubes in Liquid Flow

Professor in charge of dissertation: Suresh G. Advani, Ph.D.

Rohit Vijay

Chemical Engineering

B.Tech., Indian Institute of Technology, Madras

M.Tech., Indian Institute of Technology, Madras *Dissertation:* Discovery and Mechanistic Investigation

of NO_X Traps and NH₃ Decomposition Catalysts

Using High-Throughput Experimentation

Professor in charge of dissertation: Jochen A. Lauterbach, Ph.D.

Demin Wang

Civil & Environmental Engineering

B.En.Sc., East China University Science & Technology, China

D.Eng., East China University Science & Technology, China

M.Env.Sc., East China University Science & Technology, China

Dissertation: Reduction of Perchlorate by Indirect

Electrochemical and Catalytic Hydrogen Processes

in Dilute Aquesous Solutions

Professor in charge of dissertation: C. P. Huang, Ph.D.

Erich C. Weigert

Materials Science & Engineering

B.Ch.E., University of Delaware

Dissertation: An Ex-Situ and In-Situ Evalutation of

Carbides as Potential Electrocatalysts

Professor in charge of dissertation: Jingguang G. Chen, Ph.D.

Raymond Augustus Wildman

Electrical & Computer Engineering

B.E.E., University of Delaware

M.E.E., University of Delaware

Dissertation: Geometry Optimization and Computational

Electromagnetics: Methods and Applications

Professor in charge of disseration: Daniel S. Weile, Ph.D.

Michael John Wilson

Electrical & Computer Engineering

B.E.E., University of Delaware

M.S., University of Delaware

Dissertation: Projectile Navigation and the

Application to Magnetometers

Professor in charge of dissertation: Gonzalo R. Arce, Ph.D.

Guangchi Xuan

Electrical & Computer Engineering

B.S., Tsinghua University, China M.E.E., University of Delaware

Dissertation: The Fabrication and Characterization of High

Temperature Terahertz Emitters, and DNA Sensitive Transistors

Based on Silicon-Germanium and Silicon Carbide Materials

Professor in charge of dissertation: Gonzalo R. Arce, Ph.D.

Jin Yan

Mechanical Engineering

B.E., Beijing University of Aeronautics & Astronautics, China

M.E., Beijing University of Aeronautics & Astronautics, China

Dissertation: Aspects of Instrumented Indentation

with Applications to Thermal Barrier Coatings

Professor in charge of dissertation: Anette M. Karlsson, Ph.D.

Peng Yao

Electrical & Computer Engineering

B.E., Xian Jiaotong University, China

M.S., Xian Jiaotong University, China

Dissertation: Developing Three-Dimensional

Lithography and Chemical Lithography

for Applications on Micro/Nano Photonics and Electronics

Professor in charge of dissertation: Dennis W. Prather, Ph.D.

Le Zhang

Materials Science & Engineering

B.E., Tsinghua University, China

M.S., Tsinghua University, China

Dissertation: Bioinspired Matrices Assembled

by Polysaccharide-Protein Interactions

Professor in charge of dissertation: Kristi L. Kiick, Ph.D.

Le Zhang

Mechanical Engineering

B.E., Liaoning Institute of Technology, China

M.E., Liaoning Institute of Technology, China

Dissertation: Neutral Solute Transport in Cartilage

Professor in charge of dissertation: Andras Z. Szeri, Ph.D.

COLLEGE OF

HUMAN SERVICES, EDUCATION AND PUBLIC POLICY

Dean Timothy K. Barnekov

Doctor of Education

Gaysha Venee Beard

Educational Leadership

B.F.A., Stephens College

M.Ed., University of Delaware

Executive Position Paper: The Adult Learner,

Professional Development, and the Literacy

Coach: An Effective Professional Development

Model Proposal

Professors in charge of executive position paper: James Raths, Ph.D.

Carol Vukelich, Ph.D.

Donald W. Becker

Educational Leadership

B.S., State University of New York, Oswego

M.F.A., University of Delaware

Executive Position Paper: Freshman Seminar Narrative Research:

Art Making and Writing in Symmetrical Relationship

Professor in charge of executive position paper: James A. Whitson, Ph.D.

Leanne Doreen (Clarke) Bier

Educational Leadership

B.A., Concordia College, New York

M.I., University of Delaware

Executive Position Paper: Texts and Beginning Readers

Professor in charge of executive position paper: Rachel A. Karchmer-Klein, Ph.D.

Tracy Tlumac Downs

Educational Leadership

B.A., University of Delaware

M.A., University of Delaware

Executive Position Paper: High-Risk Drinking Among

Female Athletes at the University of Delaware:

Reducing Risk Through Intervention

Professor in charge of executive position paper: Frank Murray, Ph.D.

Deborah Monaghan Fetzer

Educational Leadership

B.S., West Chester University of Pennsylvania

M.I., University of Delaware

Executive Position Paper: A Job-Embedded Model of Professional

Development: The Path to Increased Literacy Achievement

for Middle School Students

Professor in charge of executive position paper: Sharon Walpole, Ph.D.

Joyce Ann Good

Educational Leadership

B.Ed., West Chester University of Pennsylvania

M.Ed., Millersville University of Pennsylvania

M.S., Johns Hopkins University

Executive Position Paper: A Modified Train-the-Trainer

Professional Development Program Designed to Deliver

Spreadsheet Skills to Elementary Teachers and Students

Professor in charge of executive position paper: Fred T. Hofstetter, Ph.D.

Amy Michele Fitzgerald Gordon

Educational Leadership

B.S.Ed., University of Delaware

M.I., University of Delaware

Executive Position Paper: Preparing Teachers to Use an Instructional

Management System to Differentiate Instruction

Professor in charge of executive position paper: Fred T. Hofstetter, Ph.D.

Bonnie Gail Hall

Educational Leadership

B.S., Delaware State University

M.B.A., Delaware State University

Executive Position Paper: Implementing Universal Design for

Instruction (UDI) Principles to Maximize Learning for Students

with Disabilities at the Jack F. Owens Campus of Delaware

Technical & Community College

Professor in charge of executive position paper: Robert L. Hampel, Ph.D.

Joseph M. Jones

Educational Leadership

B.A., University of Delaware

M.Ed., Wilmington College, Delaware

Executive Position Paper: Improving the Use and Effectiveness

of Data Among Teachers

Professor in charge of executive position paper: Douglas A. Archbald, Ph.D.

Julie B. Keleher

Educational Leadership

B.A., University of Pennsylvania

M.S.Ed., University of Pennsylvania

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and Data-Driven Decision Making Among School-Level

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M.Ed., University of Delaware

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Success in Business Calculus at Delaware State University

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Executive Position Paper: A Middle School Under Review:

A Study on the Effectiveness of Two Implementation

Models of the Read 180 Program on Special

Education Students' Reading Performance

Professor in charge of executive position paper: Primo V. Toccafondi, Ed.D.

Doctor of Philosophy

Jane N. Case

Urban Affairs & Public Policy

B.A., Millersville University of Pennsylvania

M.S., Florida State University

Dissertation: An Exploratory Study of School

Climate and Student Behavior in Thirteen

Delaware Public Elementary Schools

Professor in charge of dissertation: Kathryn G. Denhardt, Ph.D.

Nicola Domica Edwards

Education

B.A., State University of New York, Binghamton

M.S., University of Delaware

Dissertation: Elementary School Children's

Strategy Use and Strategy Preferences

on Multidigit Addition and Subtraction

Story Problems

Professor in charge of dissertation: James Hiebert, Ph.D.

Lauren Lee Goggins

Education

B.C.E., University of Delaware

M.S., University of Delaware

Dissertation: Eliciting Elementary Preservice

Teachers' Mathematical Knowledge for

Teaching Using Instructional Tasks

That Include Children's Mathematical Thinking

Professor in charge of dissertation: Laura S. Glass, Ph.D.

Margaret M. Mack

Urban Affairs & Public Policy

B.S.N., University of Delaware

M.A., New York University

Dissertation: Stress and Farming — An Unsustainable Relationship

Professor in charge of disseration: Margaret J. Wilder, Ph.D.

Ekaterina Midgette

Education

M.A., Moscow Linguistic University, Russia

Dissertation: The Effects of Comprehensive Text Structure Strategy Instruction On Students' Ability to Revise Persuasive Essays

Professor in charge of dissertation: Nancy W. Brickhouse, Ph.D.

Ximena Uribe-Zarain

Education

B.S., Universidad Nacional Autonoma

Dissertation: Growth Mixture Modeling with a Distal Outcome:

An Application to Reading and High Stakes Testing

Professor in charge of dissertation: James Raths, Ph.D.

College of Marine and Earth Studies

Dean Nancy M. Targett

Doctor of Philosophy

Elif Demir

Oceanography

B.S., Ege Universitesi, Turkey

M.S., Old Dominion University

Dissertation: Application of Traditional and Molecular

Methods to Taxonomy, Ecology, and Ecophysiology of

Raphidophytes and a Novel Genus

Professor in charge of dissertation: David A. Hutchins, Ph.D.

Andrew D. Krueger

Marine Studies

B.S., University of Miami

Dissertation: Valuing Public Preferences for Offshore Wind Power:

A Choice Experiment Approach

Professor in charge of dissertation: Jeremy Firestone, Ph.D.

Kristen Leigh Kuhn

Marine Studies

B.S., Pennsylvania State University

M.S., University of Maine, Orono

Dissertation: Assessment of Genetic Structure in Three

Southern Ocean Fishes Revealed by Mitrochondrial and

Nuclear Single Nucleotide Polymorphisms (SNPS)

Professor in charge of dissertation: Patrick M. Gaffney, Ph.D.

Elizabeth Ann McCliment

Marine Studies

B.S., Texas A&M University, Galveston

Dissertation: Phylogenetic and Metabolic Diversity of Microbial

Communities Inhabiting Deep-Sea Hydrothermal Ecosystems

Professor in charge of dissertation: S. Craig Cary, Ph.D.

Coren Audrey Milbury

Marine Studies

B.S., University of New Hampshire

M.S., University of Delaware

Dissertation: The Mitochondrial Genome of the Eastern Oyster,

Crassostrea Virginica: The Complete DNA Sequence and Its

Application in Local Restoration Efforts

Professor in charge of dissertation: Patrick M. Gaffney, Ph.D.

INTERDISCIPLINARY PROGRAMS

Doctor of Philosophy

Adam Matthew Fullenkamp

Biomechanics & Movement Science

B.S., University of Toledo

M.S., University of Toledo

Dissertation: A Hybrid Gait Recognition Solution

Using Video and Ground Contact Information

Professor in charge of dissertation: James G. Richards, Ph.D.

John David Willson

Biomechanics & Movement Science

B.S., University of Minnesota, Minneapolis

M.P.T., Wisconsin State University, LaCrosse

Dissertation: Hip Strength and Lower Extremity Mechanics

in Females With and Without Patellofemoral Pain

Professor in charge of dissertation: Irene Davis, Ph.D., P.T.