



13th Annual
Graduate School and Internship Fair
October 19, 2012 8:30 am – 12:00 pm Room A300



Welcome to the 2012 STEM Graduate School and Internship Fair!

The UHD Scholars Academy STEM Graduate School and Internship Fair is an excellent opportunity for students within the College of Sciences and Technology to connect with prospective graduate schools and research/internship programs. Students are strongly encouraged to speak with as many different programs as possible to explore all available opportunities. Good luck and have fun!

8:30 - 9:15 am	Registration and Check-in
9:15 - 10:15 am	Student Poster Session and Breakfast Mixer
10:15 - 12:00 pm	Graduate School and Internship Fair

Almighty Ministries, Inc.

Youth Development - Education

Baylor College of Medicine

Graduate Program in Molecular and Human Genetics
Human Genome Sequencing Center
PREP Program: Post-Bac Research/Education Program
SMART Program: Summer Undergraduate Research Training

City of Houston – Houston Crime Laboratory

C3 Texas (Campus to Community Coalition of Texas)

Dallas Baptist University

Graduate Programs

Emory University

Physics Graduate Program

Kaplan Test Prep and Admissions

Graduate Programs

Ohio State University

College of Arts and Sciences

Sam Houston State University

Office of Graduate Studies

Southern Methodist University

The Guildhall Office of Admissions

Stephen F. Austin State University

Environmental Sciences & Geology
Mathematics and Statistics
MSNS Chemistry / Biochemistry

Texas A & M International University

MS in Biology & MS in Mathematics & Education

Texas A & M University – College Station

College of Engineering
Nuclear Engineering and Health Physics

Texas A & M University Health Science Center

School of Rural Public Health

Texas Chiropractic College

Enrollment Management

Texas Southern University

Graduate School
Online Executive Masters of Public Administration

Texas Tech University

Graduate School

Texas Tech University Health Sciences Center (HSC)

School of Nursing

Texas Tech University HSC – El Paso

Graduate School of Biomedical Sciences

Universidad Autonoma de Guadalajara

School of Medicine

University of Houston-Central

College of Pharmacy
College of Technology Graduate Programs
Computer Science Graduate Program
Mathematics Graduate Program

University of Houston-Downtown

Masters of Arts in Teaching
M.S. in Professional Writing & Technical Communication
NSF Noyce Teacher Scholarship Programs

University of Houston-Clear Lake

School of Science and Computer Engineering

University of Mary Hardin-Baylor

Graduate School

University of North Texas (UNT)

College of Engineering
Toulouse Graduate School

UNT Health Science Center at Fort Worth

School of Public Health

University of Texas at Austin

Graduate School
McCombs School of Business - MS in Finance Program

University of Texas at El Paso

Graduate School

University of Texas at San Antonio

Graduate School

University of Texas Health Science Center Houston

School of Biomedical Informatics
School of Nursing
The Houston Laboratory and Population Sciences Training
Program in Gene-Environment Interaction

University of Texas Health Science Center at San Antonio

Graduate School of Biomedical Sciences

University of Texas Health Science Center at Tyler

Occupational Health Sciences
Occupational & Environmental Health

University of Texas - MD Anderson Cancer Center

School of Health Professions

University of Texas Medical Branch

Biochemistry and Molecular Biology
Graduate School of Biomedical Sciences
School of Health Professions
School of Nursing

University of Texas School of Public Health

School of Health Profession



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Welcome to the 2012 Graduate School and Internship Fair!

The UHD Scholars Academy is pleased to feature scholarly undergraduate STEM research poster presentations. Please join us in this scholarly undertaking by visiting each poster, dialoguing with the student presenters about their project, and encouraging them through offering constructive considerations that can benefit them in their next phase of research.

Student Research Poster Session:

1 – Reihana Abdelmaksaud, Kimberlyn Garcia, “The Effects of Garlic Extracts + Acyclovir on the Suppression of the Herpes Simplex Virus Type I Replication in Vitro”

UHD Faculty Mentor: **Dr. Tyra Montgomery, Dr. Qavi Hamida**

Project Location: University of Houston-Downtown

2 – Rogelio Camacho, Yesenia Salazar, “The Effect of Heat on Granite Rocks for Nuclear Depository”

UHD Faculty Mentor: **Dr. Janusz Grebowicz, Dr. Jorge Tito-Izquierdo**

Project Location: University of Houston-Downtown

3 – Kaleigh Ceasar, “The Poetry Wizard”

UHD Faculty Mentor: **Dr. Hong Lin**

Project Location: University of Houston-Downtown

4 – Raymond Cherian, Sarah Syed, “Could *Platydesmus* Millipedes Dilute their Risk of Predation by Aggregating?”

UHD Faculty Mentor: **Dr. Barry Sullender**

Project Location: Bocas Del Toro, Boca Del Drago, Panama

5 – Fatoumata Diallo, “Computational Studies of 1, 2 HOPO Chelating Ligands”

UHD Faculty Mentor: **Dr. Maria Benavides**

Project Location: University of Houston-Downtown

6 – Heather Fulkerson, “The Human Mucosal Response Against *Staphylococcus aureus* Virulence Factors”

Faculty Mentor: **Dr. Bowden**

Co-Author: Andrea Bordt, Jesse Dunkle, Heather Moor M.D., Eric L. Brown PhD, M. Gabriela Bowden PhD

Project Location: University Of Houston-Downtown

7 – Martha Cecilia Guerra, “Establishing Homology between Mammalian and Zebrafish Stratified Epithelium”

Faculty Mentor: **Dr. Daniel Wagner**

Co-Author: Dr. Daniel Wagner

Project Location: Rice University

8 – Brian Holtkamp, “Analysis of Security Code Review Effectiveness”

UHD Faculty Mentor: **Dr. David Wagner**

Co-Authors: Mattew Finifter, Adrian Mettler, Anne Edmundson, Emanuel Rivera

Project Location: University of California, Berkeley

9 – Harrison Kraft, “Exclusive Paternal Care and the Natural History of *Platydesmus subovata*”

UHD Faculty Mentor: **Dr. Barry Sullender**

Co-Author: Dr. Debbie Bush

Project Location: Bocas Del Toro, Panama

10 – Adolfo Lara, “Development of Novel Molecular Markers for Species-Level Identification of Sea Anemones (*Cnidaria*, *Actiniaria*)”

Faculty Mentor: **Dr. Estefania Rodriguez, Dr. Mercer Burgler**

Co-Author: Matt Erby

Project Location: The American Museum of Natural History, New York

11 – Milena Lobaina, “Inhibition of TK Negative HSV-1 Replication by Antiriral Agents from Single Clove Garlic in Vitro”

UHD Faculty Mentor: **Dr. Tyra Montgomery, Dr. Qavi Hamida**

Co-Authors: Issac Omuhambe, Dr. Tyra Montgomery, Dr. Qavi Hamida

Project Location: University of Houston-Downtown

12 – Aisha Mehmood, “Computational Calculations on Novel Plutonium Sequestering Agent”

Faculty Mentor: **Dr. Maria Benavides**

Co-Author: Dr. Maria Benavides

Project Location: University of Houston-Downtown

13 – Wilfredo Molina, “Recursive Evaluation Algorithms for 2-D h – Bezier Surfaces”

Faculty Mentors: **Dr. Plamen Simeonov**

Co-Author: Dr. Plamen Simeonov

Project Location: University of Houston-Downtown

14 – Vy Nguyen, “Brain Wave Analysis, Web Access”

Faculty Mentor: **Dr. Hong Lin**

Co-Author: Latpyya Smith, Lucino Flores, Qiang Guo, Troy Cartmill

Project Location: University of Houston – Downtown

15 – Owen Pate, “Preliminary Design of UHD Staff/ Faculty Parking Garage”

Faculty Mentor: **Dr. Jorge A. Tito**

Co-Author: Balkrishna Patel, Juan Castillo, Aaron Kimmel and Jeffrey Wagner

Project Location: University of Houston-Downtown

Sponsored by:

The Brown Foundation, Inc.; National Science Foundation (0728408, 0903948); and UH-Downtown.

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16 – Tilesh J. Patel, “Characterization of the Thermotropic Properties of Novel Catanionic Surfactants Derived from Quaternary Ammonium Surfactants and Dodecylbenzenesulfonate Existing as Room-Temperature Liquid Crystals”

UHD Faculty Mentor: **Dr. Robin Jose**

Co-Author: Troy A. Cather, Dr. Prodip K. Bhowmik, Dr. Hesook Han, Dr. Janusz Grebowicz

Project Location: University of Houston-Downtown

17 – Tilesh J. Patel, Troy A. Cather “ Characterization of the Thermotropic Properties of Novel Catanionic Surfactants Derived from Quaternary Ammonium Surfactants and Bis(2-ethylhexyl) sulfosuccinate Existing as Room-Temperature Liquid Crystals”

UHD Faculty Mentor: **Dr. Robin Jose**

Co-Author: Troy A. Cather, Dr. Prodip K. Bhowmik, Dr. Hesook Han, Dr. Janusz Grebowicz

Project Location: University of Houston-Downtown

18 – Cynthia A. Quinones, “Synthesis and Characterization of Novel Polymerizable Room-Temperature Ionic Liquids for U.V Curable Coatings”

UHD Faculty Mentor: **Robin Jose**

Co-Author: Paulina Filipczar, Maureen Arinyi

Project Location: University of Houston-Downtown

19 – Angela Rosales, “ Comparison between Greens Bayou Wetlands Mitigation Bank and Anahuac National Wildlife Refuge using Diatom Data to Show how IKE and the 2011 Drought Affected these Wetlands”

UHD Faculty Mentor: **Dr. Brad Hoge**

Co-Author: Dorothy Ringer-Sumner, Denise Igbineweka

Project Location: University of Houston-Downtown

20 – Iris R. Silva - Obando, “Identification of FoxF1 Mutations Affecting Patients with Alveolar Capillary Dysplasia with Misalignment of Pulmonary Veins (ACD/MPV)”

UHD Faculty Mentor: **Dr. Partha Sen**

Project Location: Baylor College of Medicine Molecular Core Laboratory

21 – Dat Truong, “Nano Particle Nickel and Nickel Oxide-Carbon Composites for Novel Voltammetric Detection”

Faculty Mentor: **Dr. Mian Jiang**

Co-Author: Dr. Mian Jiang

Project Location: University of Houston-Downtown

22 – Mau Truong Dim, “Formulational Properties of a Newly Developed Low Viscosity Diacrylate – Functional Epoxy-Based Oligomer”

Faculty Mentor: **Dr. Byron K. Christmas**

Co-Author: Dayna Spencer

Project Location: University Of Houston-Downtown CARSR Lab

23 – Reyna Valdez, “Screening Novel Synthetic Compounds for their Cytotoxicity and Inhibition of Tubulin Polymerization”

Faculty Mentor: **Dr. Rachna Sadana**

Co-Author: Andrew Mark, Ania Jeszka, Paula Mazurek, Patrycja Juchniewicz

Project Location: University Of Houston-Downtown

24 – Wei Yang Wang, “Mathematical Modeling of Glassy – Winged Sharpshooter Population”

Faculty Mentor: **Dr. Jeong – Mi Yoon, Dr. Volodymyr Hrynkiv, Dr. Lisa Morano**

Co-Author: Julie Nash, Wei Yang (Kevin) Wang

Project Location: University Of Houston-Downtown

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