

STUDENT PAPER AWARDS
75TH ANNUAL MEETING
11–12 MARCH 2011
FLORIDA INSTITUTE OF TECHNOLOGY, MELBOURNE

Sections of the Florida Academy of Sciences may recognize student presenters at annual meetings of the Senior Academy for outstanding oral and poster papers. In addition to sectional recognition, the Awards Committee may make Academy-wide student awards based on nominations from the chairs of its 14 sections. Awards granted for outstanding presentations given at the 75th Annual Meeting are listed below.

Sectional Awards for Outstanding Presentations

AGRICULTURAL AND NATURAL RESOURCES

Oral Paper, Undergraduate—Matthew Salay, Saint Leo University, “Potential genetic differences between male and female *Mauritia flexuosa* palms endogenous to Amazon Basin”

Poster Paper, Undergraduate—Henrietta Fasanya, Florida A&M University, “Utilization of cellulosic wastes by *Cytophaga hutchinsonii*”

Oral Paper, Graduate—Angel Forde, Florida A&M University, “RNA expression for lignin content of potential hardwood tree species for bio-fuels in the southeast United States”

ANTHROPOLOGICAL SCIENCES—No awards were given for 2011.

ATMOSPHERIC AND OCEANOGRAPHIC SCIENCES

Oral Paper, Undergraduate—Hannah Kolb, Florida Institute of Technology, “Temporal changes in abundances of surface metazooplankton of the Indian River Lagoon, Florida”

Oral Paper, Graduate—Emily Ralston, Florida Institute of Technology, “The ghost of fouling communities past: evidence for carry-on effects on transplanted panels”

Oral Paper, Graduate—Kerry Soltis, Florida Institute of Technology, “Planktonic larval supply and recruitment of hardfouling organisms to oyster shell substrata in the Indian River Lagoon, Florida”

Oral Paper, Honorable Mention, Graduate—Jing Zhu, Florida Institute of Technology, “Sex pheromone detection and olfactory sensilla in *Lysmata* shrimp”

Poster Paper, Graduate—Nicholas Ledra, Nova Southeastern University, “An examination of $\delta^{18}\text{O}$ values from the Mediterranean Sea and the Western Atlantic Ocean using different source organisms and verification of existing GISS model”

BIOLOGICAL SCIENCES

Oral Paper, Undergraduate—Helen Croce, Florida Institute of Technology, “Concurrent growth and differentiation of regenerating arms in brittlestars”

Poster Paper, Undergraduate—Francelethia Shabazz, St. Thomas University, “Primary neuronal brainstem culture from adult zebrafish: interactions with an inhibitory chondroitin sulfate proteoglycan-rich environment”

Oral Paper, Graduate—Adeljean Ho, Florida Institute of Technology, “Population genetic structure coincides with geography, coloration, and morphometrics in yellowhead jawfish, *Opistognathus aurifrons* (Perciformes: Opistognathidae)”

Poster Paper, Graduate—Hilde Zenil, Florida Atlantic University, “Passive acoustics as a monitoring tool for evaluating oyster reef restoration”

COMPUTER SCIENCES AND MATHEMATICS—No awards were given for 2011.

ENGINEERING—No awards were given for 2011.

ENVIRONMENTAL AND CHEMICAL SCIENCES

Oral Paper, Undergraduate—Douglas Franz, University of South Florida, “Evaluation of the removal capacities of Octolig® a supported polyethylimine, for selected anions”

Poster Paper, Undergraduate—James Carrington, Miami-Dade College, Homestead Campus, “Synthesis of potential new medicines based on the structure of resveratrol”

Oral Paper, Graduate—Nelson Akaighe, Florida Institute of Technology, “Suwannee River humic acid-mediated silver nanoparticle formation under environmentally relevant conditions”

Poster Paper, Graduate—Yannick Ouerdraogo, Florida Institute of Technology, “A two-step stereoselective synthesis of a fish pheromone from cortexolone”

Poster Paper, Honorable Mention, Graduate—Richard Comitz, Florida Institute of Technology, “Development of photolabile caged neural transmitters”

FLORIDA COMMITTEE ON RARE AND ENDANGERED PLANTS AND ANIMALS—No awards were given for 2011.

GEOLOGY AND HYDROLOGY

Oral Paper, Graduate—John Hearin, Florida Institute of Technology, “Analysis of bathymetry profile evolution of selected beaches in Brevard County after nourishment in 2010”

Oral Paper, Honorable Mention, Graduate—Brandon Poiencot, University of North Florida, “Development of a preliminary pipeline transportation network for carbon sequestration sites in Florida”

MEDICAL SCIENCES

Oral Paper, Graduate—Tanya Espinal, Nova-Southeastern University, “The effect of supplementation of flax-seed oil and *Lactobacillus plantarum*—Biocenol™ LP96 probiotic on the expression of intestinal carbohydrates in gnotobiotic piglets”

PHYSICS AND SPACE SCIENCES

Oral Paper, Undergraduate—Judson Locke, Florida Institute of Technology, “Imaging with, spatial resolution of, and plans for upgrading a minimal prototype muon tomography station”

Oral Paper, Graduate—Himali Kalakhety, Florida Institute of Technology, “Search for a Z' boson in the dimuon channel in p-p collisions with the CMS experiment at the Large Hadron Collider”

Poster Paper, Graduate—Xi Luo, Florida Institute of Technology, “Determining the location of termination shock using signature of galactic cosmic ray modulation by Global Merged Interaction Region in the heliosheath”

SCIENCE TEACHING

Oral Paper, Honorable Mention, Undergraduate—Brittany Lyp, University of South Florida, “The impact of online homework on assessment scores in college General Chemistry”

Oral Paper, Graduate—Peter Cohen, Florida Institute of Technology, “Results of integrating research-inspired laboratory modules in the general chemistry curriculum”

SOCIAL SCIENCES

Oral Paper, Undergraduate—Elizabeth Romero, Barry University, “Various ways to communicate the Miranda Warnings to a deaf suspect”

Poster Paper, Undergraduate—Erick Briggs, Barry University, “Nepotism as a counterproductive behavior in organizations”

URBAN AND REGIONAL PLANNING

Oral Paper, Graduate—Jacquelyn De Angelo, University of Miami, “Mangrove shoreline fish assemblages of Oleta River State Park: baseline conditions in an urban system”

Oral Paper, Honorable Mention, Graduate—Kathryn Becker, University of Central Florida, “An assessment of the structure and environmental benefits of urban forests in Orlando, Florida”