NOAA Office of Education

Student Scholarships Presentations

July 27 – 30, 2009

"Demonstrating NOAA's Commitment to Education Through Partnerships"

NOAA Office of Education

Student Scholarships Final Presentations

Agenda at a Glance

Monday, 27 July 2009

9:00 a.m. – 12:00 p.m.	**PRESENTATION LOGISTICS -** NOAA Science Center • Set-up Posters • Complete Scholarship Experience Evaluation

Tuesday, 28 July 2009

8:00 a.m. – 8:15 a.m.	**WELCOME PROGRAM -** NOAA Science Center
8:30 a.m. – 11:45 a.m.	**SUMMER PROJECT PRESENTATIONS** Concurrent Sessions: 1A. NOAA Auditorium - NMFS 1B. SSMC3, Room 4527 - NWS
12:00 p.m. – 1:30 p.m.	**ROUNDTABLE DISCUSSIONS –** NOAA Science Center
1:45 p.m. – 5:00 p.m.	**SUMMER PROJECT PRESENTATIONS** Concurrent Sessions: 2A. NOAA Auditorium - NOS 2B. SSMC3, Room 4527 - NWS

Wednesday, 29 July 2009

7:30 a.m. – 8:15 a.m.	**POSTER VIEWING -** NOAA Science Center
	SUMMER PROJECT PRESENTATIONS Concurrent Sessions:
8:30 a.m. – 12:00 p.m.	3A. SSMC3, Room 4527 – OAR Climate/Aerosols
8:30 a.m. – 11:45 a.m.	3B. NOAA Auditorium – NMFS
9:15 a.m. - 11:45 a.m.	3C. SSMC1, Lobby Level Conference Room - NESDIS
12:00 p.m. – 1:00 p.m.	**NOAA CORPS PRESENTATION –** NOAA Science Center
1:15 p.m. – 4:00 p.m.	**POSTER JUDGING SESSION** – NOAA Science Center

Thursday, 30 July 2009

8:30 a.m. – 9:15 a.m.	**FINAL WEEK EVALUATIONS -** NOAA Science Center • Turn in NOAA Badges • Complete Final Week Evaluations • Complete Scholarship Experience Evaluation
	SUMMER PROJECT PRESENTATIONS Concurrent Sessions:
8:30 a.m. – 11:45 a.m.	4A. NOAA Auditorium – NOS
9:30 a.m. – 11:45 a.m.	4B. SSMC2, Room 2358 – NWS
12:00 p.m. – 1:00 p.m.	**USAJOBS.GOV –** NOAA Science Center • Turn in NOAA Badges • Complete Final Week Evaluations • Complete Scholarship Experience Evaluation
1:15 p.m. – 2:15 p.m.	**SUMMER PROJECT PRESENTATIONS** 5A. NOAA Auditorium – NMFS 5B. SSMC3, Room 4527 - Education and Policy
2:30 pm. – 3:30 p.m.	**CONCLUDING REMARKS & AWARD CEREMONY –** NOAA Auditorium

Friday, 31 July 2009 – Hollings Scholars Airport Departures

Saturday, 1 Aug 2009 – EPP Scholars Airport Departures

Student Scholarships Final Presentations
Full Agenda

Tuesday, 28 July 2009

SUMMER PROJECT PRESENTATIONS

Session 1A. NOAA AUDITORIUM

8:30 a.m. **Juliana Stephan, University of Washington, Seattle, WA**
National Marine Fisheries Service
An Analysis of the Distribution and Relative Abundance of Gray Whales (Eschrichtius Robustus) in Washington State from 1998-2007 Using GIS

8:45 a.m. **Taryn Overton, Nebraska Wesleyan University, Lincoln, NE**
National Marine Fisheries Service
A Year Long View of the Seasonal and Diel Presence of Humpback Whales in the Antarctic

9:00 a.m. **Michelle McEachern, Eckerd College, St. Petersburg, FL**
National Marine Fisheries Service
Developing an Ocean Noise Budget: Examining the Relative Contribution of Multiple Baleen Whale Species

9:15 a.m. **Benjamin Edwards, University of North Carolina, Chapel Hill, NC**
National Marine Fisheries Service
Observations on a Possible Young of the Year Sleeper Shark Somniosus (Somniosus) Pacificus Caught in the Gulf of Alaska

9:30 a.m. **Alexandria Pickard, University of California, Berkeley, CA**
National Marine Fisheries Service
Movement, Behavior, and Habitat Preferences of Blue Sharks Prionace glauca in the Eastern Pacific

9:45 a.m. **Audrey Djunaedi, University of Washington, Seattle, WA**
National Marine Fisheries Service
Effect of Tide on Fish Assemblages in Eelgrass

10:00 a.m. **BREAK**

10:15 a.m. **Elizabeth Goodman, Kutztown University of Pennsylvania, Kutztown, PA**
National Marine Fisheries Service
Detecting Shifts in Size-at-Age of Black Sea Bass Across a Decade and by Area Within the US South Atlantc Recreational Fisheries

10:30 a.m. **MeganStachura, University of Miami, Coral Gables, FL**
National Marine Fisheries Service
Prior Hooking Injuries in Longline Caught Sablefish

10:45 a.m. **Benjamin Cournoyer, Eckerd College, Saint Petersburg, FL**
National Marine Fisheries Service
Laboratory Experiments with Juvenile Red King Crab: Preferences for Substrate Orientation and Synthetic Netting as Habitat

11:00 a.m. **Candace Rodgers, University of Arkansas-Pine Bluff, Pine Bluff, AR**
National Marine Fisheries Service
Abundance and Distribution of Fish Eggs and Larvae in the Bering Sea During Summer 2006-2008

11:15 a.m. **Elena Steponaitis, Barnard College of Columbia University, New York, NY**
National Marine Fisheries Service
Decadal to Millennial Scale Climate Variability in the Gulf of Maine

11:30 a.m. **Sarah Fann, University of North Carolina, Wilmington, NC**
National Marine Fisheries Service
Temperature Effects on the Early Life History Features of Shortnose Sturgeon, Acipenser Brevirostrum

11:45 a.m. **Jennifer Hoey, University of California, Berkeley, CA**
National Marine Fisheries Service
Life History Characteristics of the Curlfin Sole Pleuronichthys Decurrens Along The U.S. West Coast

12:00 p.m. **ROUNDTABLE DISCUSSIONS – NOAA Science Center**

SUMMER PROJECT PRESENTATIONS

Session 1B. SSMC3, Room 4527

8:30 a.m. **Tyler King, University of New Hampshire, Durham, NH**
National Weather Service
Instream Water Temperature Modeling in Alaska: The Last Frontier

8:45 a.m. **Kieran Bhatia, University of Maryland, College Park, MD**
Office of Oceanic and Atmospheric Research
Forecasting Evapotranspiration (ET): Developing a New Tool for Water Managers

9:00 a.m. **Robert Setzenfand, Pennsylvania State University, University Park, PA**
National Weather Service
Precipitation Estimates in Mountainous Terrain

9:15 a.m. **Lizeidy Nieves-Vera, University of Puerto Rico, San Juan, PR**
National Weather Service
Flood Forecast Mapping During a Dam Break Event Using HEC-GeoRAS and HEC-RAS

9:30 a.m. **Samuel Larsen, Embry-Riddle Aeronautical University, Prescott, AZ**
National Weather Service
Aviation Forecasting: NextGen, 4-D Cube, and the Single Authoritative Source

9:45 a.m. **Lindsey Norman, Arkansas State University Mountain Home, AR**
Office of Marine and Aviation Operations
Looking Into the Eye: The Intergration of AOC Meteorology and Aviation Weather Data to the World Wide Web

10:00 a.m. **BREAK**

10:15 a.m. **Justin Henthorn, Ohio University, Athens, OH**
National Weather Service
Using Solar Helicity to Predict Solar Flare Occurrence

10:30 a.m. **William Foust, North Carolina State University, Raleigh, NC**
Office of Oceanic and Atmospheric Research
An Investigation of the Effects of Differential Solar Shading

10:45 a.m. **Nicholas Sutfin, Boise State University, Boise, ID**
National Weather Service
Verification and Testing of Models for Post-wildfire Debris Flow Probability

11:00 a.m. **Luke Madaus, University of Oklahoma, Norman, OK**
National Weather Service
Evaluating the Usage, Performance, and Limitations of the WSR-88D Doppler Radar System in Alaska

11:15 a.m. **Clayton McGee, North Carolina State University, Raleigh, NC**
National Weather Service
Verification of historical analogue based forecast applications at WFO Binghamton, NY

11:30 a.m. **David Wardlow, North Carolina A&T University, Greensboro, NC**
National Weather Service
Development of NOAAnet Web page

12:00 p.m. **ROUNDTABLE DISCUSSIONS** – NOAA Science Center

Tuesday, 28 July 2009

SUMMER PROJECT PRESENTATIONS

Session 2A. NOAA AUDITORIUM

1:45 p.m. **James Spilsbury, University of Maine, Orono, ME**
National Ocean Service
Fundamentals of Survey: Systems Calibration aboard R/V Bay Hydro II

2:00 p.m. **Damian Manda, University of Colorado, Boulder, CO**
Office of Marine and Aviation Operations
Ocean Mapping in Remote Coastal Alaska: Hydrographic Skills Training

2:15 p.m. **Andrew Oldewurtel-Ilioff, Bucknell University, Lewisburg, PA**
National Ocean Service
Making the Hidden Visible: Spatial Data Representations Using Google Maps

2:30 p.m. **Jamaris Moore, Mississippi Valley State University, Itta Bena, MS**
National Ocean Service
Validation of Currents Predictions from a Numerical Ocean Model

2:45 p.m. **Patrina Bly, Elizabeth City State University, Elizabeth City, NC**
National Ocean Service
The Applicability of Geographical Information Systems (GIS) and Remote Sensing in Identifying Contributors of the Containment Polybrominated Diphenyl Ethers (PBDE) with the NOAA National Status & Trends Mussel Watch Program

3:00 p.m. **Jonathan Jefferies, North Carolina A&T State University, Greensboro, NC**
National Ocean Service
Marine Environmental Metabolomics: Two Case Studies

3:15 p.m. **BREAK**

3:30 p.m. **Sumia Ahmad, University of Maryland, College Park, MD**
National Ocean Service
Dealing with Climate Change at the Local Level

3:45 p.m. **Kamau Mbalia, Central State University, Wilberforce, OH**
Office of Oceanic and Atmospheric Research
Environmental Stressors on Saginaw Bay

4:00 p.m. **Katelin Shugart-Schmidt, Randolph College, Lynchburg, VA**
Office of Oceanic and Atmospheric Research
The Billion Dollar Beach: Assessing the Effectiveness of the Marine Life Conservation District at Waikiki

4:15 p.m. **Courtney Jones, Savannah State University, Savannah, GA**
National Ocean Service
Assessment of Polybrominated Diphenyl Ethers in the U.S. Coastal Waters and Great Lakes

4:30 p.m. **Janet Gao, Harvard University, Cambridge, MA**
Office of Oceanic and Atmospheric Research
Chemistry of a Short-Term Time Series Sampling of Hydrothermal Vent Fluid From the Main Endeavor Hydrothermal Field

4:45 p.m. **Lauren Forbes, North Carolina State University, Raleigh, NC**
National Ocean Service
Utilizing Residential Property Values in a Hedonic Valuation of Tidal Creek Health

SUMMER PROJECT PRESENTATIONS

Session 2B. SSMC3, Room 4527

1:45 p.m. **Melissa Huffman, University of Nebraska, Lincoln, NE**
National Weather Service
Short-Fuse Weather Requirements for Emergency Managers and First Responders in North Texas

2:00 p.m. **Darren Snively, Ohio University, Athens, OH**
National Weather Service
Synoptic Environments and Convective Modes Associated with Significant Tornadoes in the Contiguous United States – A Null Case Dataset

2:15 p.m. **Elizabeth Thompson, Valparaiso University, Valparaiso, IN**
Office of Oceanic and Atmospheric Research
Characteristics of Downbursts in Central Arizona

2:30 p.m. **Tomas Castellanos, Cornell University, Ithaca, NY**
National Weather Service
An Observing System Measured Severe Convective Wind Analysis, 2005-2008

2:45 p.m. **Amanda Hipp, Mississippi State University, Starkville, MS**
National Weather Service
Case Study of North Alabama Gravity Wave/Wake Low Wind Event

3:00 p.m. **Stephany Taylor, Jackson State University, Jackson, MS**
National Weather Service
Mississippi's Severe Hail and Wind Climatology

3:15 p.m. **BREAK**

3:30 p.m. **Noah Lock, University of Kansas, Lawrence, KS**
National Weather Service
Developing an Ozarks Pulse Thunderstorm Index

3:45 p.m. **Douglas Koch, University of Northern Colorado, Greeley, CO**
Office of Oceanic and Atmospheric Research
Creation and Optimization of Thunderstorm Guidance Products from a Time-Lagged Ensemble of High Resolution Rapid Refresh (HRRR) Model Forecasts

4:00 p.m. **Brad Reinhart, Texas A&M University, College Station, TX**
National Weather Service
Advancing Short Term, High Resolution Lightning Forecasts

4:15 p.m. **David Gagne II, University of Oklahoma, Norman, OK**
Office of Oceanic and Atmospheric Research
An evaluation of Model Output Statistics Techniques in the Mountainous Eastern Tennessee WRF Model Domain

Wednesday, 29 July 2009

SUMMER PROJECT PRESENTATIONS

Session 3A. SSMC3, Room 4527

8:30 a.m. **Adele Lichtenberger, North Carolina State University, Raleigh, NC**
Office of Oceanic and Atmospheric Research
Implications of Air Quality on Solar UV Radiation

8:45 a.m. **Rebecca Long, University of Alabama, Tuscaloosa, AL**
Office of Oceanic and Atmospheric Research
Ozonesonde Laboratory and Field Measurement Experiments

9:00 a.m. **Joy Driver, University of Alabama, Tuscaloosa, AL**
Office of Oceanic and Atmospheric Research
Test of Polar Nephelometer for Measuring Aerosol Light Scattering

9:15 a.m. **Kenneth Pratt, Penn State University, University Park, PA**
Office of Oceanic and Atmospheric Research
The Effects of Stability on PM2.5 Concentrations in the Tennessee Valley

9:30 a.m. **Samuel Ubanyionwu, Texas Southern University, Houston, TX**
Office of Oceanic and Atmospheric Research
An Evaluation of Atmospheric Compounds Utilizing the ADS Measurement Technique along the Mississippi Gulf Coast

9:45 a.m. **Megan Kirchmeier, University of Oklahoma, Norman, OK**
Office of Oceanic and Atmospheric Research
An Analysis of Tropospheric Ozone Over Boulder, CO

10:00 a.m. **BREAK**

10:15 a.m. **Eowyn Connolly-Brown, Cornell University, Ithaca, NY**
Office of Oceanic and Atmospheric Research
Climatic Impacts of Cloud Whitening Geoengineering as Simulated by the GFDL

10:30 a.m. **Angelica Betancourt-Negron, University of Puerto Rico, San Juan, PR**
Office of Oceanic and Atmospheric Research
Global Climatology of the Stable Planetary Boundary Layer

10:45 a.m. **Geeta Persad, Stanford University, Stanford, CA**
Office of Oceanic and Atmospheric Research
Investigating the Climate Impacts of Absorbing Aerosols in a GFDL Global Climate Model

11:00 a.m. **Aziza Marchant, Savannah State University, Savannah, GA**
Office of Oceanic and Atmospheric Research
Establishing a Relationship between Aspirated and Non-Aspirated Temperature Sensors in Support of CRN Power Management

11:15 a.m. **Elizabeth Maroon, Massachusetts Institute of Technology, Cambridge, MA**
Office of Oceanic and Atmospheric Research
The Impact of Liquid Water and Ice in Arctic Clouds on Cloud Radiative Forcing and the Surface Energy Budget

11:30 a.m. **Kyle Poyar, Brown University, Providence, RI**
Office of Oceanic and Atmospheric Research
Urban Climate Change Adaptation: An Analysis of Seven State and Local Adaptation Planning Initiatives Focusing on Coasts and Water Resources

11:45 a.m. **Karen McKinnon, Harvard College, Cambridge, MA**
Office of Oceanic and Atmospheric Research
Loading the Dice: Climate Change and the 2000-01 Northwest Drought

12:00 p.m. **NOAA CORPS PRESENTATION –** NOAA Science Center

SUMMER PROJECT PRESENTATIONS

SESSION 3B. NOAA AUDITORIUM

8:30 a.m. **Peter Bonneau University of Massachusetts, Lowell, MA**
National Marine Fisheries Service
Assessment of Diadromous Fish Passage Restoration on the Pawcatuck River, Washington County, Rhode Island

8:45 a.m. **Benjamin Bogardus, University of North Carolina, Chapel Hill, NC**
National Marine Fisheries Service
Floodplain Forest Dynamics in a Mountain River System: White River, Western Washington

9:00 a.m. **Melinda Forsyth, Virginia Tech, Blacksburg, VA**
National Marine Fisheries Service
Relationship Between Benthic Productivity and Fish Populations in Tributary Streams to the Cedar River, WA

9:15 a.m. **Alexandra Mushegian, Harvard University, Cambridge, MA**
National Marine Fisheries Service
Relationship Between Terrestrial Inputs From Riparian Forests and Fish Populations in Tributary Streams to the Cedar River, WA

9:30 a.m. **Coral Hines, University of California, Santa Cruz, CA**
National Marine Fisheries Service
NMFS/NWFSC
Relationship Between Invertebrate Drift and Fish Populations in Tributary Streams to the Cedar River, WA

9:45 a.m. **Nicholas Jachowski, Stanford University, Stanford, CA**
National Marine Fisheries Service
Channel Mapping of a Steelhead Stream in Big Sur, California

10:00 a.m. **BREAK**

10:15 a.m. **Emily Hart, Smith College, Northampton, MA**
National Marine Fisheries Service
Characterization of Microparticulate Reference Diets

10:30 a.m. **Stacy Farina, University of New Hampshire, Durham, NH**
National Marine Fisheries Service
Exploring Evolutionary Relationships in Two Groups of Fish Using Genetic Barcoding and Comparative Neuroanatomy

10:45 a.m. **Molly Semones, Ohio University, Athens, OH**
National Marine Fisheries Service
Red Tides and the Makah Indian Tribe

11:00 a.m. **Courtney McGeachy, Hampton University, Hampton, VA**
National Marine Fisheries Service
Taking Back Wetlands

11:15 a.m. **Lorielle Jackson, Florida A&M University, Tallahassee, FL**
National Marine Fisheries Service
Determining the Potential Environmental Impacts of Offshore Renewable Energy Development

11:30 a.m. **Aimee Hoover, University of Miami, Coral Gables, FL**
National Marine Fisheries Service
A Physical and Biological Investigation of Surface Slicks Near Hawaii

12:00 p.m. **NOAA CORPS PRESENTATION –** NOAA Science Center

SESSION 3C. SSMC1, Lobby Level Conference Room

9:15 a.m. **Matthew Niznik, University of Miami, Coral Gables, FL**
National Environmental Satellite, Data and Information Service
Impacts of Extended Periods of Low Solar Activity on Climate

9:30 a.m. **Salman Naqvi, New Jersey Institute of Technology, Newark, NJ**
National Environmental Satellite, Data and Information Service
Track Urban Growth using Nighttime Lights

9:45 a.m. **DeBie Dunn, University of Arkansas, Pine Bluff, AR**
National Environmental Satellite, Data and Information Service
Comparing Absolute Salinities Calculated with a Silicate Climatology vs. Observed Silicate

10:00 a.m. **Wilsharo Scott, Fisk University, Nashville, TN**
National Environmental Satellite, Data and Information Service
Validating Satellite Sea Surface Temperature Measurements for Coral Reef Environment Monitoring Using In-situ Observations

10:15 a.m. **Kelsey Watkins, University of North Dakota, Grand Forks, ND**
National Environmental Satellite, Data and Information Service
Proxy-Model Comparisons of North Atlantic Sea Surface Temperatures Prior to the 8.2 ka Event

10:30 a.m. **BREAK**

10:45 a.m. **Amber Smith, Tuskegee University, Tuskegee, AL**
National Environmental Satellite, Data and Information Service
Environmental Satellite Processing Center (ESPC) Network Enhancement to Improve Operations

11:00 a.m. **Daniel Curran, University of Wisconsin, Oshkosh, WI**
Office of Oceanic and Atmospheric Research
Interactive Carbon Cycle Science: Conceptualizing Trends with NOAA Data Products

11:15 a.m. **Rockwell Schrock, University of Connecticut, Storrs, CT**
Office of Oceanic and Atmospheric Research
Cooking Up a Storm: A Science on a Sphere Presentation

11:30 a.m. **Ronderio Hunt, Alcorn State University, Alcorn State, MS**
Office of Marine and Aviation Operations
Identify the Need and Principle for an Intermediate Maintenance Management Program (IMMP)

12:00 p.m. **NOAA CORPS PRESENTATION –** NOAA Science Center

Wednesday, 29 July 2009, 1-4 P.M.

SUMMER PROJECT POSTER SESSION
NOAA Science Center

Poster #1 **Heather Relyea, Eckerd College, St. Petersburg, FL**
Office of Marine and Aviation Operations
The Shifting Sands of Time: Comparing Hydrographic Survey Data to Evaluate Changes in Bathymetry

Poster #2 **Kelly Scott, University of Missouri, Columbia, MO**
Office of Marine and Aviation Operations
Databasing of AOC Aviation Weather Data for Public Access

Poster #3 **LaTreese Denson, North Carolina State University, Raleigh, NC**
National Marine Fisheries Service
The Use of Otolith Chemistry to Compare Sources of Recruits from Biscayne Bay and the Florida Keys

Poster #4 **Rogerick Magee, Alcorn State University, Alcorn State, MS**
National Marine Fisheries Service
Otolith Microchemistry of the Family Cichildae from the Rio Negro, Brazil

Poster #5 **Sarah Gutzwiller, Ohio University, Athens, OH**
National Marine Fisheries Service
Factors Influencing the Activity Patterns of Territorial California Sea Lions (Zalophus Californianus)

Poster #6 **Dominique Leclerc, University of Maine, Orono, ME**
National Marine Fisheries Service
Interactive Mapping System for Monachus Schauinslandi (Hawaiian monk seal) Sightings Data

Poster #7 **Alix Lee, Barry University, Miami Shores, FL**
National Marine Fisheries Service
Age at Length and Other Life History Parameters of Redbanded Rockfish, Sebastes babcocki, along the US West Coast

Poster #8 **Megan Sabal, Miami University, Oxford, OH**
National Marine Fisheries Service
Diet Analysis of Juvenile Salmonids in Relation to Water Flow in the Columbia River Estuary

Poster #9 **Ryan Ziels, Humboldt State University, Arcata, CA**
National Marine Fisheries Service
Modeling Juvenile Salmon Rearing and Migration through the Nearshore Using Individual Based Modeling Techniques

Poster #10 **Melanie Beaver, Washington College, Chestertown, MD**
National Ocean Service
Spatial and Temporal Changes in Sea Otter Diet in Kachemak Bay, Alaska Using Scat Analysis

Poster #11 **Samuel Thomas, Columbia University & The Jewish Theological Seminary of America, New York, NY**
National Ocean Service
The Ecophysiology of a Mangrove Forest in Jobos Bay, Puerto Rico

Poster #12 **Laura Wood, University of Maine, Orono, ME**
National Ocean Service
Returning the Tide to Gulf of Maine Salt Marshes: Evaluating Salt Marsh Plant, Soil and Hydrologic Response to Restoration

Poster #13 **Kaile`a Carlson, California Polytechnic State University, San Luis Obispo, CA**
National Ocean Service
Detergents in Urban Runoff -- Pacific Grove, CA

Poster #14 **Charles Biddle, University of Oklahoma, Norman, OK**
National Weather Service
Verification of Seasonal Soil Moisture Forecasts

Poster #15 **Meghan Mee, University of South Alabama, Mobile, AL**
National Weather Service
Preliminary Single Doppler Radar Analyses of U.S. Central Gulf Coast Pulse Severe Thunderstorms and Associated Basic Evolutionary Characteristics

Poster #16 **Rosimar Rios-Berrios, University of Puerto Rico, Mayaguez, PR**
National Weather Service
Improving the Skill of NWS's Extra-Tropical Total Water Level Forecast System

Poster #17 **Antonio Riggi, Rutgers, New Brunswick, NJ**
National Weather Service
A Comparison of Nonconvective Strong and High Wind Events in the Mount Holly, NJ CWA

Poster #18 **Breanna Williams, University of Maryland, Eastern Shore, Princess Anne, MD**
National Weather Service
Observations in a Virtual Database: Updating NextGen's IOC

Poster #19 **Preston Carter, University of Oklahoma, Norman, OK**
Office of Oceanic and Atmospheric Research
Oklahoma Lightning Climatology

Poster #20 **Aaron Preston, University of Michigan, Ann Arbor, MI**
Office of Oceanic and Atmospheric Research
Study of 3-D Total Lightning Activity Relative to Radar-Inferred Storm Parameters

Poster #21 **Douglas Crauder, Earlham College, Richmond, IN**
Office of Oceanic and Atmospheric Research
Examining Polarimetric Zdr Signatures on Isothermal Surfaces Relating to Severe Hail

Poster #22 **Christopher Ware, North Carolina A&T State University, Greensboro, NC**
Office of Oceanic and Atmospheric Research
Development of a Gas-Chromatography Apparatus to Measure the Thermal Decomposition of CH3C(O)OONO2 (PAN)

Thursday, 30 July 2009

SUMMER PROJECT PRESENTATIONS

Session 4A. NOAA AUDITORIUM

8:30 a.m. **Alexander Horning, Gettysburg College, Gettysburg, PA**
National Ocean Service
A Hedonic Valuation of Tidal Creek Health Relative to Property Values

8:45 a.m. **Sarah Newton, University of Arkansas, Pine Bluff, AR**
National Ocean Service
Land Based Sources of Pollution to Jobos Bay, Puerto Rico: Characterization of Organic Chemical Contaminants in Sediments

9:00 a.m. **Erin Satterthwaite, Juniata College, Huntingdon, PA**
National Ocean Service
Temporal Variability of the Biodiversity in the Rocky Intertidal of Kachemak Bay, Alaska

9:15 a.m. **Mary Kelsey Lane, Brown University, Providence, RI**
National Ocean Service
Spatial Biodiversity of the Rocky Intertidal in Kachemak Bay, AK

9:30 a.m. **Elizabeth Simonik, Ohio University, Athens, OH**
National Ocean Service
The Effects of In Vitro Paraoxon on Acetylcholinesterase Activity in Two Estuarine Crustacean Species

9:45 a.m. **Benjamin Frable, University of Washington, Seattle, WA**
National Ocean Service
Preliminary Analysis of Critical Habitats for the Endangered Pacific Humphead Wrasse (Cheilinus Undulatus)

10:00 a.m. **BREAK**

10:15 a.m. **Heather McGee, Beloit College, Beloit, WI**
National Ocean Service
Exploring Trends in Chlorophyll Readings and Phytoplankton Diversity and Abundance within the Waquoit Bay Watershed

10:30 a.m. **Eric Armstrong, Michigan State University, East Lansing, MI**
Office of Oceanic and Atmospheric Research
CyanoHAB Cell Detection: The Use of Fiber Optic Genosensors in Predicting Toxicity

10:45 a.m. **JessicaKunke, Northwestern University, Evanston, IL**
Office of Oceanic and Atmospheric Research
Effects of Light, Temperature, and Phosphorus on Spirogyra Growth

11:00 a.m. **Amanda Vinson, University of Hawaii, Honolulu, HI**
Office of Oceanic and Atmospheric Research
Characterizing Hydrothermal Emissions: Laboratory Calibration of a Field Sensor for Measuring Oxidation-Reduction Potential

11: 15 a.m. **Brian Yannutz, University of Hawaii, Hilo, HI**
Office of Oceanic and Atmospheric Research
Analysis of Ph and Alkalinity in Hydrothermal Fluids and Application to Ecological Questions

11:30 a.m. **Jamie Shutta, University of South Carolina, Columbia, SC**
Office of Oceanic and Atmospheric Research
Internal Wave Scattering at Rough Topography

12:00 p.m. **USAJOBS.GOV PRESENTATION–** NOAA Science Center

SUMMER PROJECT PRESENTATIONS

SESSION 4B. SSMC2, Room 2358

9:30 a.m. **Thomas Spencer, University of Missouri, Columbia, MO**
Office of Marine and Aviation Operations
Hurricane Hunter Calibration Software Upgrade

9:45 a.m. **Brian Haines, Texas A&M University, College Station, TX**
National Weather Service
Hurricane Ike NWS Products: User Response and Effectiveness

10:00 a.m. **Christopher Castellano, Cornell University, Ithaca, NY**
National Weather Service
Modeling and Understanding Rapidly Intensifying Extratropical Cyclones

10:15 a.m. **Joshua Cossuth, Florida State University, Tallahassee, FL**
National Weather Service
Dvorak Based Analysis of Central Pacific Cyclogenesis to Support Operational Decision Making

10:30 a.m. **BREAK**

10:45 a.m. **Heather Winter, University of Oklahoma, Norman, OK**
Office of Oceanic and Atmospheric Research
Structural Changes During Extratropical Transition: Atlantic Case Studies

11:00 a.m. **Evan Kalina, Florida State University, Tallahassee, FL**
Office of Oceanic and Atmospheric Research
Developing Surface Enthalpy Flux Parameters to Improve Predictions of Tropical Cyclone Rapid Intensity Change

11:15 a.m. **Alek Krautman, University of Oklahoma, Norman, OK**
National Weather Service
A Radiosonde Climatology for Charleston, South Carolina

11:30 a.m. **Madison Burnett, University of Missouri, Columbia, MS**
Office of Oceanic and Atmospheric Research
Improvements in Cluster Identification and Tracking in a Circulation Detection Algorithm

12:00 p.m. **USAJOBS.GOV PRESENTATION –** NOAA Science Center

SUMMER PROJECT PRESENTATIONS

Session 5A. NOAA AUDITORIUM

1:15 p.m. **Lisa McManus, University of Miami, Coral Gables, FL**
National Marine Fisheries Service
Succession and Diversity of Cryptic Marine Invertebrates Using Autonomous Reef Monitoring Structures

1:30 p.m. **Erin Daly, Clemson University, Clemson, SC**
National Marine Fisheries Service
Using GIS and GPS Technology to Assess Invasive Marine Algae

1:45 p.m. **Lindley Maryoung, Eckerd College, St. Petersburg, FL**
National Marine Fisheries Service
The Effects of Pesticides on the Neurobiology of Salmon

2:00 p.m. **Brooks Kohli, Ohio University, Athens, OH**
National Marine Fisheries Service
Should I Stay or Should I Go?: Factors That Influence Anadromy Versus Residency in Central California Coastal Salmonids

2:15 p.m. **Jeffrey Toone, California State University, Monterey Bay, Seaside, CA**
National Marine Fisheries Service
Habitat Requirements for California's Central Coast Salmonids

2:30 p.m. **CONCLUDING REMARKS & AWARD CEREMONY-** NOAA Auditorium

SUMMER PROJECT PRESENTATIONS

Session 5B. SSMC3, Room 4527

1:15 p.m. **Brandon Boyd, Louisiana State University, Baton Rouge, LA**
National Ocean Service
Running a Volunteer Water Quality Program: Education, Training, and Management

1:30 p.m. **Eliot Chang, Pomona College, Claremont, CA**
National Ocean Service
S*ocioeconomics: What Does That Have to Do With Marine Management Policy?*

1:45 p.m. **Karl Platzer, University of Miami, Coral Gables, FL**
National Ocean Service
Education and Outreach for Fagatele Bay National Marine Sanctuary

2:00 p.m. **Courtney Trezise, Michigan State University, East Lansing, MI**
International Affairs
Integrated Program in International Affairs

2:30 p.m. **CONCLUDING REMARKS & AWARD CEREMONY-** NOAA Auditorium

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