



2013 Internship Forum
of
NRES Internships
and Research Experiences

October 3, 2013
E.S. Good Barn



NRES Internship Forum

General Session, 5:00 PM

Welcome and Introductions:

Dr. Jack Schieffer, Agricultural Economics

Presenters:

Marquel Lett, NRES major

Ross Bundschuh, NRES major

Susan Plueger, LFUCG Division of Water Quality

Poster Presentations for:

NRE 395 Independent Study in Natural Resources

NRE 399 Experiential Education in Natural Resources

Student Experiences

Marley Allen, Floracliff Nature Sanctuary: This summer I worked as a nature preserve assistant at Floracliff Nature Sanctuary in Lexington, Kentucky. My main duties included invasive species removal, trail maintenance, macroinvertebrates sampling, and helping to run events that were held at the preserve. Along with these duties, I helped tag the ash trees along the trail, and created a map with their location and condition.

Cannon Applegate, Aquatic Resources Management: ARM is an environmental consulting firm, providing services in ecological assessment, permitting guidance, and restoration of degraded habitat. I spent the majority of my time in sorting benthic macroinvertebrates, an important process in the assessment of watershed health.

Trey Bennett, Kootenai National Forest: I worked with the trail crew and fire crew at Kootenai National Forest in Montana. I learned trail maintenance techniques with the trail crew. However, I most enjoyed working the fire crew during the later part of the summer, where I helped with preparing prescribed burn units and pre-commercial thinning.

Ross Bundschuh, TRC Environmental Corporation: This summer, I had the opportunity to work with TRC Environmental Corporation in Norcross, Georgia in their Permitting and Licensing Division. For my independent work, I was able to draft Jurisdictional Delineation Reports and Pre-Construction Notices to complete an application to the Army Corps of Engineers.

Ben Cocanougher, Fayette County 4-H: I worked in the Fayette County Extension office, helping with their 4-H and environmental education programs. I assisted with a number of programs aimed at youth audiences.

Logan Derderian, University of Southern Mississippi, Migratory Bird Research Group: I worked as a biological technician at a bird banding site in Johnson's Bayou, Louisiana. I worked with mist-nets, extracting birds and identifying them before they were banded and processed. I learned a lot about field research techniques and contributed to the assessment of migratory movements and species diversity.

Michelle Gilmore, UK Dept. of Forestry: I used published research on the values of ecosystem services to calculate the value of the services provided by Kentucky's forestland. The results provide policy makers and forest managers with information to better manage our forest resources.

Chris Goddard, Century Aluminum: This summer I had the opportunity to intern in the Environmental Department at Century Aluminum in Hawesville, Ky. I dealt with various environmental aspects of the production of raw aluminum. The regulation of Fluoride particulate was the main focus of our air testing, air monitoring, and air reporting. I also sampled and reported on Century's water treatment facility in which treated waters used in production and from the wet scrubber system are cleaned and discharged into the Ohio River. I also worked on projects with both business and environmental aspects, such as the reduction of waste streams, and the reuse of production wastes if possible and searching for potential customers of waste products such as wooden pallets, carbon anodes, and scrap metals.

Paul Hafner, Ohio EPA, Division of Surface Water: As an intern, I worked on stormwater inspections and compliance with the federal Clean Water Act and the Ohio Water Pollution Control Act. My internship involved a combination of field work and office work.

Patrick Hayes, Boone Creek Outdoors: I worked at a company that provides outdoor recreational and educational services. I worked primarily to remove invasive species, such as winter creeper and honeysuckle, from the company's property.

Marquel Lett, UK Cooperative Extension: This summer I worked as a Cooperative Extension agent in Jefferson County. My main duty was to be a liaison through University of Kentucky to the community informing and teaching about important agriculture and Environmental Science subjects.

Karyn Loughrin, Department of Forestry: I had the opportunity to work with Dr. Andrew Stainback to analyze survey results about different sustainable land management options around Nyungwe National Forest in Rwanda. I conducted literature research and used the Analytical Hierarchy Process (AHP) to determine relative importance of factors and categories. The re-

search's purpose is to facilitate land use management that meets the needs of local stakeholders while helping to conserve the unique ecosystem. Nyungwe is one of the best remaining examples of Albertine rift mountain rainforest. I was very grateful to have the opportunity to do international research and look forward to continuing my initial research with follow up studies.

Naomi Martinez, UK NRES: I assisted with the study abroad version of the NRE 320 summer camp, in Costa Rica. In addition to assisting the professors and students, I was managed the course's Facebook page documenting our experiences and also created a post-course survey to provide students' feedback to the instructors.

Lee Mudd, Hall Environmental Consultants: My employer was an environmental consulting company that helps its clients comply with environmental regulations at the federal, state, and local levels. I contributed my experience with Geographical Information Systems (GIS) and helped with two projects involving the Wild Turkey and Buffalo Trace distilleries.

Joe Sawyer, UK Dept. of Biosystems and Agricultural Engineering: I worked on a research project involving beaver dams on the Davis Branch stream in the Cumberland National Historic Park. The beaver dams have degraded the habitat of the Blackside Dace, a threatened species of fish. I assisted with the collection of field data and the development of GIS maps.

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