



Spotlight on Student Research and Outreach

12 April 2011

Poster presentations
12 – 2 pm (Nifkin Lounge)

Abstracts available online (<http://www.esf.edu/spotlight>)

Cash prizes to best posters!

This event is sponsored by the Office of Research Programs, ESF Alumni Association, and the Graduate Student Association.

Program at a glance

Titles of posters follow with the student author and times students will be present by their posters. Numbers identify their geographic location at the event (refer to map at end).

Graduate Student Posters

1. EFFECTIVENESS OF POST-CONSUMER FOOD WASTE AS A MEANS FOR NUTRIENT RECOVERY AND WASTE REDUCTION WHEN USED AS A FISH FEED IN AN AQUAPONIC SYSTEM – Amadori, Michael (12-2 pm)
2. DISCOVERING PALEOCHANNEL INTERACTION WITH FLOODPLAIN AQUIFERS THROUGH THE USE OF AN INNOVATIVE STEPWISE FLOWPATH RESTRICTION METHODS – Becker, Joseph (1-2 pm)
3. A REMOTE SENSING-BASED APPROACH TO IDENTIFYING SIREX-RELATED CHANGES IN SCOTCH PINES – Bhattarai, Nishan (1-2 pm)
4. AGRICULTURAL LAND USE EFFECTS ON WATER QUALITY IN THE SKANEATELES LAKE WATERSHED: A HABITAT ASSESSMENT USING BENTHIC MACROINVERTEBRATES – Bilodeau, Lydia (12-2 pm)
5. ROLE OF VEHICULAR TRAFFIC AND VEGETATION IN CONTROLLING CARBON FLUXES IN A CITY LANDSCAPE – Buckley, Shannon M (12-1 pm)
6. MODELING OF AIR POLLUTANT REMOVAL BY URBAN TREES USING A WRF/ARCUFORE-D COUPLED SYSTEM – Cabaraban, Maria Theresa (1-2 pm)
7. ANALYZING ASH RESPONSE TO EMERALD ASH BORER INFESTATION USING HYPERSPECTRAL SIGNATURES – Calandra, Laura (12:30-1:30 pm)
8. SOME OBSERVATIONS ON THE REACTIVITY OF LIGNIN UNDER CARBOXYMETHYLATION CONDITIONS – Chien, Shang-Ning (12-2 pm)
9. FLOWPATH AND RESIDENCE TIME OF HYPORHEIC FLOW AT STREAM MEANDER BENDS: IMPACT OF MEANDER RESTORATION ON WATER AND ECOSYSTEM QUALITY – Chu, Hong-Hanh (12:30-2 pm)
10. EPHEMERAL HOTSPOTS OF UREA IN THE FLORIDA KEYS REEF TRACT – Crandall, Jesse (12:30-2 pm)
11. LONG TERM TRENDS OF DICHLOROBENZENES IN ONONDAGA LAKE – Croskrey, Jennifer (1-2 pm)
12. GENETIC ANALYSIS OF AMERICAN HART'S TONGUE FERN (*ASPLENIUM SCOLOPENDRIUM* VAR. *AMERICANUM*) USING ISSR-PCR – Discenza, Jeremy (1-2 pm)
13. SYNTHESIS OF BORON CONTAINING POLYMERIC MATERIALS FOR BORON NEUTRON CAPTURE THERAPY (BNCT) – Dugan, Kathleen J. (12:30-2 pm)
14. A THERMAL RELATIONSHIP BETWEEN THE GREAT LAKES AND THE ATMOSPHERE DURING SEVERE LAKE EFFECT STORMS – Eichorn, David (12-2 pm)
15. UNDERSTANDING HOW LANDOWNER ENGAGEMENT AFFECTS FOREST MANAGEMENT – Ellis, Bryan (1-2 pm)
16. MODELING HYPORHEIC EXCHANGE NEAR RIVER RESTORATION STRUCTURES IN AN EXPERIMENTAL FLUME – Fay, Mike (12-2 pm)
17. INVESTIGATING THE IMPACT OF AN INVASIVE ZOOPLANKTON, *CERCOPAGIS PENGOI*, ON THE LENGTH OF FOOD CHAINS IN NEW YORK'S FINGER LAKES – Figary, Stephanie (1-2 pm)

18. DEVELOPMENT OF CHLOROMYXUM TRIJUGUM (MYXOZOA) IN THE GALL BLADDER OF THE BLUEGILL (LEPOMIS MACROCHIRUS) – Fitzsimmons, Kelly (12:30-2 pm)
19. ASSESSING CITIZEN KNOWLEDGE AND LIKELIHOOD OF IMPLEMENTATION OF ALTERNATIVE FORMS OF STORM WATER MANAGEMENT IN SYRACUSE, NY – Foley, Catherine (1-2 pm)
20. MEASURING THE PROGRESS AND EFFICACY OF COMMUNITY FORESTRY PROGRAMS IN INDIA – Ghosh, Chadrani (1-2 pm)
21. EFFECTS OF ANTECEDENT MOISTURE CONDITIONS ON BIOGEOCHEMICAL INTERACTIONS AND GREENHOUSE GAS DYNAMICS IN THE ADIRONDACK MOUNTAINS OF NEW YORK – Gross, Jordan (1-2 pm)
22. HYPORHEIC ZONES AND THEIR INTENSITIES IN RIVER MEANDER BENDS – Han, Bangshuai (12-1:30 pm)
23. ABUNDANCE ESTIMATION OF COYOTE POPULATIONS IN NEW YORK STATE VIA VOCALIZATION SURVEYS AND DISTANCE SAMPLING – Hansen, Sara (12-1 pm)
24. BEECH DYNAMICS AFTER SHELTERWOOD SEED CUTTING AT HUNTINGTON WILDLIFE FOREST, NY – Haykuni, Ani (12:30-1:30 pm)
25. NITROGEN REMOVAL FROM DARIY WASTEWATER IN CONSTRUCTED WETLAND SYSTEMS: EFFECTS OF PH ON SNAD – He, Yuling (1-2 pm)
26. A TALE OF ANTHROPOGENIC DISTURBANCE: HOW FOREST DEGRADATION AND HUMAN PROXIMITY TO NONHUMAN PRIMATE POPULATIONS INFLUENCES ZOONOTIC PARASITISM – Helenbrook, William (12:30-2 pm)
27. OVERCOMING CHALLENGES TO STRUVITE RECOVERY FROM ANAEROBICALLY DIGESTED DAIRY MANURE – Huchzermeier, Matthew (1-2 pm)
28. EVALUATION OF USING INTEGRATED MULTITEMPORAL ALOS PALSAR AND LANDSAT TM DATASETS FOR LAND COVER MAPPING – Jin, Huiran (1-2 pm)
29. USING NATIVE PLANT COMMUNITIES AS A TEMPLATE FOR THE DESIGN OF THE GREEN ROOF ON THE GATEWAY BUILDING – Johnson, James (12:30-1:30 pm)
30. QUALITY AND QUANTITY OF DISSOLVED ORGANIC MATTER (DOM) FOR THE EVALUATION OF WATERSHED CHARACTERISTICS AT THE HUBBARD BROOK EXPERIMENT FOREST, NH – Kang, Phil-Goo (12:30-1:30 pm)
31. FAMILY FOREST LANDOWNER ATTITUDES IN THE CATSKILL MOUNTAINS TOWARDS FOREST ECOSYSTEM SERVICES AND INCENTIVE-BASED CONSERVATION PROGRAMS – Kelly, Matthew (12-2 pm)
32. PREVALENCE, DISTRIBUTION, AND SPATIAL EPIDEMIOLOGY OF BOVINE VIRAL DIARRHEA VIRUS AND COXIELLA BURNETII IN WHITE-TAILED DEER (ODOCOILEUS VIRGINIANUS) – Kirchgessner (12:30-2 pm)
33. MAPPING THE WILDERNESS PERCEPTIONS OF STAKEHOLDER GROUPS WITHIN THE ADIRONDACK STATE PARK, NEW YORK – Larkin, Abigail (12:30-2 pm)
34. ON THE ACIDIC DELIGNIFICATION OF KRAFT PULPS – Mahmud, Shiulu (12:30-1:30 pm)
35. ANALYSIS OF ECOSYSTEM SERVICES IN THE SOUTHWESTERN HYDROGRAPHIC BASINS OF THE DISTRITO FEDERAL, MEXICO (MEXICO CITY) – Nava, Mariana (1-2 pm)
36. SOIL CO₂ EFFLUX IN SHORT ROTATION WILLOW (SALIX DASYCLADOS) STAND ACROSS A 21-YEAR CHRONOSEQUENCE – Pacaldo, Renato (1-2 pm)
37. COMPARISON OF PHYCOCYANIN EXTRACTION METHODS FOR FILTERED FRESHWATER CYANOBACTERIAL SAMPLES – Pavlac, Margaret (1-2 pm)
38. POTENTIAL SIDEROPHORES AND OTHER IRON-BINDING BIOACTIVE PEPTIDES PRODUCED BY THE CYANOBACTERIA MICROCYSIS AERUGINOSA – Perri, Katherine (1-2 pm)
39. CONSERVATION AND DIVERGENCE OF MICRORNAS IN LOBLOLLY PINE (PINUS TAEDA) POLLEN – Quinn, Christina R. (12-2 pm)
40. RANAVIRUS-EXPOSED WOOD FROG TADPOLES (LITHOBATES SYLVATICUS) ARE ROBUST TO THREE NATURAL ENVIRONMENTAL CHALLENGES – Reeve, Brooke (12:30-2 pm)
41. MAXIMIZING HYPORHEIC EXCHANGE IN STREAM RESTORATION DESIGN: AN EXAMINATION OF HIGHLY PERMEABLE LENSES AND NO FLOW BOUNDARIES – Robinson, Jesse (12-2 pm)
42. ASSESSMENT OF GREEN INFRASTRUCTURE PRACTICES FOR STORMWATER MANAGEMENT; A COMPARATIVE EMERGENCY ANALYSIS – Rodriguez, Barbara (12-2 pm)
43. USE OF ACTIVATED CHARCOAL TO IMPROVE DETECTION OF MICROCYSTIN-LR IN ANIMAL TISSUE – Schmidt, Justine (1-2 pm)

44. LEACHING OF HEAVY METALS FROM PRESERVATIVE TREATED WOOD DURING RAINFALL EVENTS – Shun Shi (12-1 pm)
45. TERRESTRIAL SALAMANDER DIET ALONG A CALCIUM GRADIENT IN THE ADIRONDACKS, NY – Snyder, Caitlin (12-1 pm)
46. IMPACT OF MULTICOLLINEARITY ON SMALL SAMPLE HYDROLOGIC REGIONAL REGRESSION MODELS – Song, Peter (12:30-1:30)
47. QUANTIFYING EMERGENCE PHENOLOGY OF THE EXOTIC EUROPEAN WOODWASP (SIREX NOCTILIO F.), TWO NATIVE SIRICIDS (S. NIGRICORNIS AND S. EDWARDSII), AND THEIR PARASITOIDS IN NORTH AMERICA – Standley, Christopher (12-1 pm)
48. OPTICAL DISCRIMINATION OF PHYTOPLANKTON GENERA USING FOURTH DERIVATIVE ABSORBANCE SPECTRA AND A SIMILARITY INDEX – Sullivan, Jeremy (1-2 pm)
49. ATTEMPTS TO IMPROVE THE REACTIVITY OF LIGNIN RESIDUES FROM THE ACID-HYDROLYSIS OF WOOD – Wang Kuo-Ting (12-1 pm)
50. EFFECTS OF UNSATURATED ZONES ON BIOLOGICAL NITROGEN REMOVAL IN CONSTRUCTED WETLANDS USING NITRITATION-ANAMMOX PROCESS – Wen, Jianfeng (12-2 pm)
51. DEVELOPING CONFIDENCE METRICS FOR REMOTE SENSING CLASSIFICATION – Xi, Bo (12:30-2 pm)
52. ITREE-HYDRO: COLD CLIMATE HYDROLOGY UPDATE FOR THE URBAN FOREST HYDROLOGY MODEL – Yang Yang (12-1 pm)
53. ASSESSING SPATIAL UNIQUENESS OF FOREST CHANGES IN THE CONTERMINOUS US – Yang, Sheng (1-2 pm)

54. A GIS MODEL SYSTEM OF SPECIES DISTRIBUTION SIMULATION AND MANAGEMENT FOR UNDERSTORY VEGETATION IN LIANGSHUI NATURE RESERVE, CHINA – Zhen Zhen (1-2 pm)
55. CHARACTERISTICS OF FLOW AND TURBULENCE AROUND NATURAL CHANNEL DESIGN STRUCTURES IN A MEANDER BEND – Zhou, Tian (12-1 pm)
56. A NOVEL DECOMPOSITION METHOD BASED ON DIFFERENTIAL EVOLUTION ALGORITHM FOR LVIS WAVEFORM – Zhuang, Wei (12:30-1:30 pm)
57. THE EFFECTS OF LIME TREATMENT ON ORGANISMS AT MULTIPLE TROPHIC LEVELS – Andrews, David (12-2 pm)



Undergraduate posters

58. MOSS FACILITATES RESTORATION OF ALPINE ZONES IN THE MACINTYRE RANGE OF THE ADIRONDACKS – Aracena, Pamela (1-2 pm)
59. COMPARING THE HYDROGEOCHEMICAL RESPONSES OF TWO ADJACENT SUBCATCHMENTS WITHIN THE ADIRONDACK PARK – Arias, Mabelys (12-1 pm)
60. COMPARATIVE ANALYSIS OF FISH PARASITE COMMUNITIES FROM ADIRONDACK LAKES WITH AND WITHOUT INTRODUCED FISH SPECIES – Bauer, Eric

61. PRODUCTIVITY POND COMPARISON BETWEEN TWO NEIGHBORING LONG ISLAND PONDS – Brown, Erica (12-2 pm)
62. UP REGULATION OF ACETYL-COA PRODUCTION FOR ENHANCED POLYHYDROXYALKANOATE YIELDS IN RECOMBINANT ESCHERICHIA COLI – Cook, Michael (12-2 pm)
63. SUMMER FISH MIGRATIONS ASSOCIATED WITH BEAVER IMPACTED FIRST ORDER ADIRONDACK STREAMS – Cyr, Woody (12:30-2 pm)
64. DETERMINANTS AND CORRELATES OF THE MIXED HARDWOOD SPRUCE-FIR MONTANE ECOTONE ON GOODNOW MOUNTAIN, ADIRONDACKS, NY – Falco, Gennaro (1-2 pm)
65. APPROACHING MANAGEMENT OF INTRODUCED SPECIES IN CASES OF CONFLICTING VALUES – Garcia, Natalie (1-2 pm)
66. AQUATIC MACROINVERTEBRATE DRIFT DYNAMICS IN A FREESTONE STREAM IN THE ADIRONDACK PARK, NY – Griffin, Nick (12-1:30 pm)
67. STEROLS AS MOLECULAR BIOMARKERS FOR FEEDING STRATEGIES IN REEF BUILDING SCLERACTINIAN CORALS – Harris, Timothy (12-2 pm)
68. FACTORS INFLUENCING HERPETOLOGICAL DIVERSITY IN NEW YORK STATE – Hathaway, Courtland (12:30-1:30 pm)
69. SMALL RNAS: CLONING, BIOINFORMATICS, AND THEIR ROLES IN PINE POLLEN GERMINATION – Hevers, Kimberly (12-1 pm)

