

Curriculum Vitae

Jona L. Scarbro

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EDUCATION

M.S. Biology with Ecology Track, University of Toledo. Thesis: Microbial transport through the Vadose Zone of a Biosolid amended Cropland; Implications for Land application of Class B Biosolids and Surface water Quality. Degree date: 05 Aug 2006 (Cumulative GPA 3.78)

B.S. Environmental Science with Biological Track and Biology minor (magna cum laude), Marietta College. Capstone: A Pollution inventory of the Lower Muskingum River. Degree date: 04 Jun 2004 (Cumulative GPA 3.77)

Diploma; Primary Leadership Development Course; Non Commissioned Officer Academy, Ft. Drum NY. Graduation date: 1997

Research interests: Aquatic Habitats & Species, Wetlands Restoration, Microbial Source Tracking, Site Remediation

PROFESSIONAL EMPLOYMENT & EXPERIENCE

2006- Present: Continuing research on the implications of the land application of Class B biosolids to agricultural fields

2004- 2006: Completed Master of Science degree thesis research geared toward investigating deleterious effects of the application of class B biosolids to agricultural fields

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PROFESSIONAL EMPLOYMENT & EXPERIENCE –continued-

2006: Assisted ODNR in electro-fishing & tagging of Maumee River Walleye

2003-2004: Completed a pollution inventory of the Lower Muskingum Watershed (Southeast OH) for Nitrate, Nitrate, Phosphate, Atrazine, & Arsenic levels

2003: Assisted USGS in electro-fishing the Maumee River for aquatic species inventory

2003: Assisted in Microbial source tracking of Escherichia coli in Maumee Bay portion of Lake Erie

2002: Humane Society of the Ohio Valley; General care of small domestic animals. Supervised personnel conducting community service

2000: Armell Corporation; Performed various vehicle maintenance tasks. Operated equipment such as metal lathe, Oxygen/Acetylene torches, Pipe bender, and Mig/Arc welders

1993-1999: US Army; Performed duties of Helicopter Crew Chief, Door Gunner, Platoon Leader, & Quality Control Technical Inspector Assistant

Skills

Proficient in the use or implementation of:

1. Microsoft Office Applications
2. Filtration of Water and Enumeration of Bacteria and Viruses
3. Analysis of Soil/Sediment for the Enumeration of Bacteria and Viruses
4. Extraction and cleansing of Bacterial DNA
5. Agarose Gel Electrophoresis
6. Denaturing Gradient Gel Electrophoresis
7. Polymerase Chain Reaction
8. Sampling Vessels up to 28 Feet in Length (Coast Guard Qualification)
9. All Terrain Vehicles
10. Various Metal/Mechanical Shop Equipment
11. Combat Lifesaver
12. Field Sanitation (prevention of food water contamination)
13. Aviation Unit Level Logistics Systems

PRESENTATIONS

2006, Public Thesis Defense: Microbial transport through the vadose zone of a biosolid amended cropland; Implications for land application of Class B biosolids and surface water quality

2006, IAGLR (International Association for Great Lakes Research) 49th Annual Conference: Microbial transport through the vadose zone of a biosolid amended cropland; Implications for Maumee Bay water quality

2004, Friends of the Lower Muskingum: A Pollution Inventory of the Lower Muskingum River

2003, University of Toledo Faculty/Students: A Study of Escherichia coli in Maumee Bay

PROFESSIONAL MEMBERSHIP

Phi Theta Kappa, Beta Beta Beta, All American Scholar

AWARDS

National Dean's list, Dean's List, President's List, Good Conduct Medals (2), Army Achievement Medals (2), Army Certificate of achievement Awards (3), Army Service Ribbon, Army National Defense Ribbon, Army Overseas Duty Ribbon, Army Primary Leadership Development Ribbon, Army Safety & Accident Prevention Award, Sikorsky Helicopter Superior Maintenance Award