Jaron Andrews
jross@nmt.edu

Objective: To obtain a permanent position in the hydrological or geological fields.

Education: Currently pursuing Master's of Science in Hydrology
Research- Arsenic Removal Using Surfactant Modified Zeolite/ Zero-Valent Iron
Advisor: Robert Bowman
New Mexico Tech: Socorro, New Mexico

Bachelor's of Science in Geochemistry - May 2007 **GPA**: 3.93/4.00
New Mexico Tech: Socorro, New Mexico

Awards: SMART Scholarship for Service Fellowship – Dept. of Defense -2007-2009
Geological Society of America Research Grant - 2008
Graduate Student Association Research Grant - 2008
Elks Foundation Most Valuable Student Scholarship 2003-2007
New Mexico Geological Society Estwing Award – 2007
Society of Independent Professional Earth Scientist Foundation Scholarship- 2007
American Institute of Professional Geologist Essay Contest - 2006
Aquatrols Essay Contest Winner – 2005,2006
Golf Course Superintendents Association Legacy Award – 2005

Skills:

- Technical Report Writing
- AutoCAD, ArcGIS, and ERDAS Imagine knowledge
- Analytical Chemistry- HPLC, ICP-OES, and Flame AA
- Mapping -Quaternary sediments + geologic units
- Soil core Analysis for carbon and nitrogen
- Teamwork

Relevant Coursework

Technical Writing
Hydrogeochemistry
Groundwater Hydrology
Contaminant Hydrology
Hydrologic Field and Lab Methods
Physical + Organic Chemistry

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Publications

Andrews, J.R., Bowman, R.S. (2008) Arsenic Remediation Using Surfactant Modified Zeolite/Zero-Valent Iron (SMZ/ZVI). *2008 Joint Meeting of The Geological Society of America: Natural Zeolite Utilization in Agriculture, Environmental Science, and Industry: Characterization, Properties, and Applications: Session J14- Poster: 59-2*

Pullin, M.J.; Vivoni, E.R.; Harrison, J.B.J.; Andrews, J.; Vargas, A. (2005) Rainfall in Semiarid Ecosystems: Coupled Hydrology and Biogeochemistry Affect on Nitrogen Cycling. *AGU Fall 2005 Meeting, Symposium on Integrative Earth Sciences: Biogeochemical and Water Cycles.*

Employment:

Summer 2008 — GIS Intern
Army Corps. of Engineers -Topographic Engineering Center — Alexandria, VA
Tasks: Researched and compiled report detailing water resources of a country. Work required creating maps and figures using ArcGIS and compiling facts using a wide variety of sources

Summer 2007 — Researcher
New Mexico Tech — Socorro, NM
Tasks: Performed analytical chemistry analyses of explosive contaminants and arsenic using HPLC's, and ICP-OES respectivley. Work was performed in order to evaluate the effectiveness of a zeolite filtration medium.

Summer 2005 — Research Experience for Undergraduates (REU)
New Mexico Tech — Socorro, NM
Tasks: Field and lab research including taking soil cores, analyzing samples for organic carbon and total nitrogen, basic ArcGIS skills, analytical chemistry. Presented results in formal presentation and published results in a poster.

Summer 2004 — Irrigation Designer and Office Assistant
Irrigation Services — Belen, NM
Tasks: Assisted in designing irrigation systems for city parks using AutoCAD. Duties included filing, accounting, and GPS data collecting.

References

Dr. Michael Pullin
Assistant Professor
New Mexico Tech
801 Leroy Place
Socorro, NM 87801
(505) 835-6185

Dr. Robert Bowman
Associate Professor
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801 Leroy Place
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(505) 835- 5992

Dr. Peter Mozley
Associate Professor
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