

## **Julia Roubidoux**

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### **Education:**

M.S. Chemistry, Colorado School of Mines, 2009

B.S. Chemistry, State University of New York (SUNY) College at Fredonia, 2006

### **Previous Experience with the Following Skills and Equipment:**

- GC/MS, GC/FID, GC/ECD, HPLC, UV-VIS, AA and FTIR Spectroscopy
- Soxhlet, solid phase, and accelerated solvent extraction
- TOC, conductivity, pH, and TLC analysis
- Laboratory Information Management Systems (LIMS)
- Microsoft Office: Excel, Word, PowerPoint, and Access

### **Professional Experience:**

TestAmerica (07/2013 – 10/2013)

Analyst II/Data Reviewer

- Organized and prioritized job distribution to meet client due turnaround times
- Reviewed analytical laboratory data for adherence to SOPs and contract compliance
- Determined discrepancies in data and initiated rework

Rite Aid Pharmacy (02/2013 – 07/2013)

Pharmacy Technician

Fort Lewis College (08/2010 – 12/2012)

Chemistry Department Laboratory Director/Instructor

- Prepared solutions and equipment for Chemistry teaching labs
- Co-developed and directed a student summer research project that investigated corrosion and hydrogen embrittlement of steels in the presence of organic inhibitors
- Edited and revised laboratory manuals
- Member of the Fort Lewis College Environmental Health and Safety Committee
- Hired and managed laboratory teaching assistants
- Taught Organic, Analytical and General Chemistry Laboratories
- Assisted with GC/MS, GC/FID, HPLC, and AA maintenance
- Purchased and inventoried chemicals and equipment for department

Sandoz Pharmaceuticals (01/2010 – 07/2010)

Quality Control Chemist

- Worked with supervisors to plan and complete testing, evaluate data, troubleshoot, and initiate investigative work related to Out of Specification/Out of Trend data
- Tested products using TLC, HPLC, UV-Vis spectroscopy, dissolution testing, and other wet chemistry techniques and entered data into LIMS
- All testing was compliant with cGMP, SOPs, DEA, FDA and OSHA regulations

Stratus Consulting (02/2009 – 12/2009)

Science Associate

- Prepared ecological risk/NRDA injury assessments, managed and analyzed scientific data and literature, and provided written reports and oral presentations

**Research Experience:**

Graduate (Research conducted at Colorado School of Mines and US Geological Survey)

Fall 2006 – Spring 2009

M. S. Thesis: Sorption of Pharmaceuticals to Soil at Varying pH

- Investigation of sorption behavior of charged (anionic/cationic) and neutral organic species to soil at varying environmental systems
- Method development for accelerated solvent extraction of charged and neutral organic species from soil
- Sample preparation (ASE and SPE) and analysis of charged and neutral organic species in soil and water using HPLC-ESI/MS analysis
- Determination of soil-water distribution coefficients for organic species

Undergraduate (Research conducted at SUNY Fredonia)

Fall 2005 - Spring 2006

- Surfactant templated synthesis of nanoporous metal phosphates for remediation of heavy metals and radionuclides from the environment

Fall 2002 - Spring 2006

- Sample preparation (Soxhlet and SPE) and GC/MS analysis of organics (Dioxins, PCBs, and PAHs) in the atmosphere, soil, and sediment

Summer Internships

2005 and 2006 (Pacific Northwest National Laboratory)

- Development and testing of in situ, phosphate-based remedial technologies for sequestration of aqueous heavy metal and radionuclide contaminants
  - Quantification of mineral and material dissolution kinetics via single-pass flow-through (SPFT) or static methodology
  - Quantification and analysis of radionuclide contaminant loading and retardation in the presence of hydroxylapatite
  - GC/FID analysis of organics (benzo- and dibenzothiophene) using GC/FID analysis
- 2003 and 2004 (SUNY Fredonia)
- Sample preparation (Soxhlet and SPE) and GC/MS analysis of organics (Dioxins, PCBs, and PAHs) in the atmosphere

**Academic Honors:**

2006 Dingley Physical Chemistry Award, Department of chemistry at SUNY Fredonia

2005 Keller Outstanding Research Award, Department of chemistry at SUNY Fredonia

2004 Don Rennie Outstanding Student Presentation Memorial Award, Student and Faculty Great Lakes Research Consortium Conference

Thumm Analytical Chemistry Award, Department of chemistry at SUNY Fredonia

**Publications: (Maiden Name: Glovack)**

Wellman, D. M.; **Glovack, J. N.**; Parker, K.; Richards, E. L.; Pierce, E. M. Sequestration and retention of uranium(VI) in the presence of hydroxylapatite under dynamic geochemical conditions. *Environmental Chemistry*, **2008**, 5(1), 40-50.

Mattigod, S.V.; Wellman, D.M.; **Glovack, J.N.**; Arey, B.W.; Wood, M.I. 2008. "Meta-Autunite Solubility as Related to Uranium Minerals in Concrete Waste Forms." In Actinides 2008 - Basic Science, Applications and Technology, Materials Research Society Proceedings, vol. 1104, ed. B. Chung, et al, pp. 195-201. Materials Research Society, Warrendale, PA.

Wellman, D.M.; Mattigod, S. V.; Fryxell, G. E.; Clayton, L. N.; **Glovack, J. N.**; Parker, K. E. Nanoporous transition metal phosphate materials for sequestration of redox sensitive contaminants. *Geochimica et Cosmochimica Acta*, **2006**.

**Conference Presentations:**

**Glovack, J.N.**; Ranville, J.; Furlong, E.; Wellman, D. M.; Werner, S. "Effect of pH on Sorption Behavior of Pharmaceuticals in Soil," Society of Environmental Toxicology and Chemistry 5<sup>th</sup> World Congress Meeting, August 2008, Sydney, Australia.

**Glovack, J. N.**; Wellman, D. M.; Mattigod, S. V.; and Fryxell, G. E. "Synthesis and Characterization of Nanoporous Metal Phosphates as Sorbents for Heavy Metals and Radionuclides," American Chemical Society 231<sup>st</sup> National Meeting, March 2006, Atlanta, GA.

**Glovack, J. N.**; Milligan, M. S.; Andolina, C.; Holsen, T.; Hopke, P.; Pagano, J.; and Summer, G. "Atmospheric Concentrations of PCDD/Fs Offshore of Lake Ontario," 50th ACS-Annual Undergraduate Research Symposium. April 2005, Nazareth College, Rochester, NY.

**Glovack, J. N.**; Milligan, M. S.; Andolina, C.; Holsen, T.; Hopke, P.; Pagano, J.; and Summer, G. "Atmospheric Concentrations of PCDD/Fs Offshore of Lake Ontario," Great Lakes Research Consortium, March 2005, Syracuse, NY.

**Glovack, J. N.**; Milligan, M. S.; Althouse, K.; Chiarenzelli, J.; Pagano, J. "Organic Contaminants in Soil and Sediment Near Lake Ontario to the Central Adirondacks," Great Lakes Research Consortium, March 2004, Syracuse, NY.

Wellman, D.M.; Mattigod, S. V.; Fryxell, G. E.; Clayton, L. N.; **Glovack, J. N.**; Parker, K. E. "Nanoporous transition metal phosphate materials for sequestration of redox sensitive contaminants." American Chemical Society 232<sup>nd</sup> National Meeting, September 2006, San Francisco, CA.

Wellman, D.M.; Mattigod, S. V.; Fryxell, G. E.; Clayton, L. N.; **Glovack, J. N.**; Parker, K. E. "Nanoporous transition metal phosphate materials for sequestration of redox sensitive contaminants." Goldschmidt, 2006.