Conrad A. Rohleder

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EDUCATION

Colorado School of Mines - B.S. Chemical Engineering **May 2013**

3.36 Major GPA/ 3.20 Cumulative

Activities: Daniels Fund Scholar, Daniels Fund Ambassador, Karate Club

Self-Financed education through work and highly selective Daniels Fund Scholarship

Selected based on character, leadership, and service

Participated in research and published two peer-reviewed, academic papers

ENGINEERING WORK EXPERIENCE

Ball Aerospace and Technologies Corp: Associate Engineer **Jan 2014 - Present**

Headed research, documentation, and deployment of tool tethering program

Improved lab logistics and efficiency by implementing solutions after careful observation

Energy Corporation of America: Fall Intern **Fall 2013**

Engaged in abbreviated Professional Development Program to learn about company

Rebuilt programs and corrected gas tracking mechanisms within Marketing department

Research/Work Study: Computational Chemistry **2010 – 2013**

Binding and pKa studies on α-conotoxin variants, homology modeling

Collaborated with BSU lead/students on project direction/techniques

Team lead on α-conotoxin project, primary educator on Linux/research techniques

WLR Services: Land Surveyor In Training **1998 – 2013**

Instrumental in family business; Worked on all aspects of surveying

Including: AutoCAD, Field Work, Legal Research, etc.

ADDITIONAL WORK EXPERIENCE

Self-employed: Handyman **2005 – 2013**

Ranch Work, Construction, Landscaping/Lawn Care, Trimming/Fire Mitigation

JCC Ranch Camp: General Counselor **Summer 09**

Guiding and supervising 6-14 campers in 2nd thru 9th grade

Handyman whenever needed.

Heartland Acoustics and Interiors Inc.: Journeyman **Summer 06, 07**

Installed acoustic ceilings. Included high-security jobs (e.g. prisons, banks)

PUBLICATIONS

O. McDougal, D. Granum, M. Swartz, C. Rohleder, C. M. Maupin. "pK_a Determination of Histidine Residues in α-Conotoxin MII Peptides by 1H NMR and Constant pH Molecular Dynamics Simulation." *J. Phys. Chem. B*, **2013**, *117* (9), pp 2653–2661.

Somisetti V. Sambasivarao, Jessica Roberts, Vivek S. Bharadwaj, Jason G. Slingsby, Conrad Rohleder, Chris Mallory, James R. Groome, Owen M. McDougal, C. Mark Maupin. "Acetylcholine Promotes Binding of α-Conotoxin MII at α3β2 Nicotinic Acetylcholine Receptors". *ChemBioChem,* 13 Jan 2014.

EXPERIENCE/SKILLS

Fullbridge Program - 160 hr business boot camp inc. financial analysis, strategic analysis, and presentation skills

Daniels Fund Enrichment Program - Career and character development program

Colorado School of Mines Leadership Summit (2 years)

Public Speaking and Oral Presentation – 14 yrs. experience (4-H, Speech, Ethics, EPICS)

ASPEN, SolidWorks, AutoCAD, AMBER11, Win7, Linux