

# JOHN C. ALLSHOUSE

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## EDUCATION

### **University of Colorado, Department of Biology and Microbiology, Denver, CO**

Postdoctoral Appointment August 1999-January 2001

Dr. Timberley Roane

### **University of Colorado, Boulder Department of Chemistry and Biochemistry, Boulder, CO**

Doctor of Philosophy, May 1993

Master of Science, December 1989

### **Hiram College, Hiram, OH**

Bachelor of Arts in Chemistry (ACS), June 1986

## EMPLOYMENT EXPERIENCE

### ➤SCIENCE/RESEARCH

#### **John Bapst Memorial High School**

Bangor, ME 9/02-8/04

**Science Instructor** Instruct junior honors level chemistry, regular chemistry, senior physics and freshman health/general science classes. Organize and implement chemistry class plans based on a method of modeling chemistry theories.

#### **Colby College**

Waterville, ME 9/01-5/02

**Faculty Fellow in Chemistry** Taught general chemistry, environmental chemistry, and taught independent research-modular style biochemistry lab.

#### **University of Colorado, Denver**

Denver, CO 8/99-1/01

**Microbiological Researcher** Conducted bioremediation studies to determine whether Brewer's yeast is an effective remediator of toxic metals (e.g. Cadmium, Lead, Arsenic) and/or organics (e.g. pesticides, herbicides, nerve gas) waste. Instructed graduate students in laboratory research techniques.

#### **Front Range Community College**

Westminster, CO 8/93-12/94

**Chemistry Instructor** Taught general chemistry and organic chemistry.

#### **University of Colorado, Boulder**

Boulder, CO 8/86-4/93

**Chemistry Researcher** Master's work included synthesis and mechanistic studies on solublized Fischer-Tropsch intermediates. Doctor's work included synthesizing water soluble, molybdenum-sulfide complexes to study olefin binding characteristics in aqueous medium.

### ➤BREWING

#### **Great Divide Brewing Company**

Denver, CO 3/97-6/99

**Lab Manager; Brewer** Great Divide Brewery and Great Northern Tavern and Brewery, Keystone, Colorado. Responsible for all lab operations. **Bottling Facility Supervisor**. Supervised a bottle filler crew of four people; maintained and developed quality management protocols for bottle filler. **Inventory/Warehouse Manager**. Maintained inventory spread sheet. Calculated Colorado state and Federal taxes.

#### **Coophouse Brewery**

Broomfield, CO 12/94-10/96

**Master Brewer/Research Chemist** Designed and constructed all brewery operating systems, including electrical and mechanical. Developed all brewery recipes. Researched floral aroma/flavor additive properties in beer through use of flowers in lieu of hops.

### ➤CONSTRUCTION/REMODELING

#### **Allshouse Enterprises, LLC**

Denver, CO 8/99-present

Self employed president of home improvement company. Specialize in kitchen and bathroom remodeling: tiling, granite counters, painting, plumbing, electricity, wall work, woodwork and carpentry, furniture making and repair.

## **TECHNICAL SKILLS**

- Fermentation studies of beer production on process scale reactions. Mechanical and electrical system design and construction. Operational, hands-on knowledge of all brewing and production processes.
- Aseptic manipulation of microbes. Propagation and counting methods for yeast and bacteria.
- Organic, Inorganic, and organometallic synthesis including manipulation of air sensitive compounds using standard Schlenk and glove box techniques. High field multinuclear magnetic resonance and variable temperature NMR, AA, ICP, SEM-EDS, TEM-EDS, ESR, UV/VIS, IR, GC/MS, MS, Cyclic voltammetry, and X-ray crystallographic experiments were used to elucidate thermodynamic, mechanistic, and/or structural information.
- Tiling, granite counters, painting, plumbing, electricity, wall work, woodwork and carpentry, small furniture making and repair.