

## CURRICULUM VITAE

**PATRICK F. O'HARA, Ph.D.**

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### EDUCATION:

- Ph.D. 1980, Arizona State University, Tempe, Arizona; Geology.  
Dissertation; Structure and metamorphism of the Northeast Bradshaw Mountains, Arizona.
- M.A. 1976, Queens College of the City University of New York; Geology.  
Thesis: The economic geology and metamorphic petrology of the Willsboro wollastonite deposit, New York.
- B.A. 1971, Queens College of the City University of New York; Geology.

**FIELDS OF SPECIALIZATION:** Mineral deposits, geochemistry, petrology, and structural geology.

**CERTIFICATIONS:** The Society of Mining, Metallurgy, and Exploration Founding Registered Member (#2407050RM), Certified Professional Geologist (CPG-0957)

### INDUSTRY EXPERIENCE:

- 4/80 - 1/82 Massive sulfide, sandstone/siltstone and carbonate hosted sulfide and greisen (Sn, W) exploration, Arizona, CONOCO, Inc., Prescott, AZ
- 2/80 - 4/80 Disseminated gold exploration, Central Nevada, St. Joe America Corp., Tucson, AZ
- 12/78 - 2/79 Petrographic consultant, Chevron Mineral Resources Corp., Denver, CO
- 6/78 - 8/78+ Uranium exploration, evaluation and geologic mapping in the Sierra Ancha Mineral district, Arizona, Wyoming Minerals Corp., Miami, AZ

### KAATERSKILL EXPLORATION CLIENTS:

- 9/05 – present Design, development, and management of a precious metal program, Canadian Mining, Inc. Vancouver, B.C.
- 8/87 - present Design, development, and management of a precious metal program, Ivy Minerals Inc., Boise, ID
- 9/07 – present Project oversight + geochemistry, Great Panther Resources, Inc., Guanauato, Mexico
- 2/08 – present Project oversight + geochemistry, Mojave Gold Exploration, Inc., Toronto, Canada
- 9/04 – 12/07 Design, development, and management of a precious metal program, Cunniah Lake Resources, LLP, Atlanta, GA
- 9/93 – 12/07 Geochemical modeling, Southwest Ground-water Consultants, Phoenix, AZ
- 3/96 - 6/96 Geological and geochemical modeling a fossil VMS hydrothermal system, COMINCO American, Spokane, WA
- 3/82 - 12/96 Design and development of lithophile element, stratabound massive sulfide and precious metals exploration programs, Santa Fe Pacific Mining, Inc., Albuquerque, NM
- 2/89 - 2/94 Base and precious metal exploration, American Copper and Nickel Inc., Denver, CO
- 11/91- 1/93 Geochemical model of McCabe mine, Magma Copper, Inc., Tucson, AZ
- 6/92 - 10/92 Design of a ground water geochemical targeting procedure, State of Minnesota, Hibbing, MN
- 8/92 Evaluation of a precious metal property, Verdstone Gold, Corp., Etna, CA
- 6/89 - 8/89 Geochemical modeling of gold properties in Nevada, Carona Inc., Reno, NV
- 5/88 - 3/89 Property evaluation, Pegasus Gold, Inc., Reno, NV
- 7/83 - 4/87 Design and development of precious metals exploration programs, Long Lac Mineral Exploration, Ltd., Reno, NV
- 4/85 - 3/86 Design of a geochemical exploration program for Billiton Inc. (now Shell Inc., Houston, TX)
- 9/82 - 12/84 Design and development of a porphyry molybdenum exploration program, Nevada and Utah, AMSELCO, Inc., Reno, NV

- 2/82 - 8/82 Design and development of precious metals exploration programs, Atlas Corp., Denver, CO  
3/82 - 4/82 Geochemical modeling of massive sulfide deposits, CONOCO, Inc., Denver, CO

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### **INDUSTRY RELATED ORE DEPOSITS FIELD EXPERIENCE:**

- 1977 - 1980 Ph.D. dissertation research on complexly deformed and metamorphosed volcanic and sedimentary rocks, Bradshaw Mountains, Arizona  
1973 - 1976 M.A. thesis research on the Willsboro wollastonite deposit, New York  
Summer 68, 71, 72, 82 evaluating geochemistry and structural control of ore deposits in New York, Ontario, Quebec, Michigan, Wisconsin, Minnesota, France, Germany, England, Spain and Portugal

### **ACADEMIC EXPERIENCE:**

- 8/03 – present Part-time associate professor teaching research techniques (graduate course), Northern Arizona University, Prescott Campus  
1/77 - 1/79 Lecturer in optical mineralogy, petrology and sedimentary petrology, Arizona State University  
6/76 - 9/76 Lecturer for geology field course, Queens College, CUNY  
9/74 - 1/77 Lecturer in geology, Baruch College, CUNY  
1/72 - 6/74 1/2-time lecturer in geology, Queens College, CUNY  
2/71 - 6/71 Tutor in geology, Queens College, CUNY

### **RESEARCH EXPERIENCE:**

- 8/95 - 7/96 Courtesy Research Associate, Geosciences Department, University of Oregon  
4/80 - present Exploration geochemistry (regional geochemical analysis, ore deposit modeling, geochemical modeling, statistical methods by computer techniques)  
12/87- 6/88 Subcontractor to ASU on research grant to study geochemical processes and fluid-rock reactions associated with nuclear waste disposal at the Yucca Mtn. site.  
1/79 - 1/80 Research associate in petrology (Lithium mineral stabilities in pegmatites) Arizona State University  
6/77 - 9/77 Research assistant in petrology, Arizona State University  
7/75 - 1/76 Research associate in sedimentation, Queens College, CUNY  
1/68 - 6/71 Laboratory assistant, Queens College, CUNY

### **PROFESSIONAL ORGANIZATIONS:**

Fellow, Society of Economic Geologists; member, AIME; member, Geological Society of America; member, Mineralogical Association of Canada; member, Society of Exploration Geochemists; member, Mineralogical Society of America; member AIPG (CPG-09527), member PDAC, member, AME

### **SERVICE:**

- 2005 – present Board of Governors, Arizona Department of Mines and Mineral Resources (until 2010)  
2005 Chair, Grand Canyon Section – SME  
2/04 – 2/07 Research Council, SME  
2/99 – 2/04 Geochemistry committee, SME – chair 2/03 – 2/04  
2004 Vice chair, Grand Canyon Section – SME

### **PROPRIETARY GEOLOGIC AND GEOCHEMICAL MAPS AND REPORTS:**

70 geologic and geochemical maps; 18 reports; 70 property examination reports; 280 geochemical maps (co-authored with J. Motter and R. Whitney).