Matthew Dunlop III

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Dept. of Geology and Geophysics • University of Wyoming • 1000 E University Ave. • Laramie, WY 82071

EDUCATION

Ph.D. Geology (in progress) University of Wyoming

<u>Research</u>: Investigating physical and chemical processes influencing igneous layering in the Dufek intrusion, Antarctica

M.S. Geology Indiana University, 2013

<u>Research</u>: Examined the relationships between the Eagle Ni-Cu-PGE deposit and surrounding mafic dikes and intrusions, and evaluated implications for petrogenesis, Midcontinent Rift evolution, and magmatic sulfide exploration

B.S. Geology State University of New York College at Potsdam, 2011

Minors: Arabic Studies, Wilderness Education

<u>Research</u>: Investigated mineralogy, petrology, and potential ore-forming processes of the Owls Head magnetite prospect, New York

PROFESSIONAL EXPERIENCE

University of Wyoming, Laramie, WY

Teaching Assistant (August 2013-present):

GEOL 4610 Structural Geology and Tectonics

Indiana University, Bloomington, IN

Associate Instructor (August 2012-May 2013):

G105 Earth Our Habitable Planet (Fall 2012), G417 Optical Mineralogy (Fall 2012), G103 Earth Science: Materials and Processes

Rio Tinto Exploration/Kennecott Eagle Minerals Company, Ishpeming, MI

Contract Field/Exploration Geologist (May 2012-August 2012):

Field mapping, generative exploration/prospecting, sample preparation, core logging, Tromino passive seismic survey

Society of Economic Geologists

Cu-Ni-PGE Short Course, Hilton Minneapolis, Minneapolis, MN (October 7-8, 2011)

Barrick Gold Exploration Inc., Elko, NV

<u>Contract Exploration Geologist</u> (June 2011-August 2011)

Generative exploration/prospecting, sample preparation

SUNY Potsdam, Potsdam, NY

Teaching Assistant (2010):

GEOL 103 Physical Geology (Fall 2010)

Wilderness Education Trip Leader (January 2009-May 2011):

WILD 240 Backpacking trip leader, assistant climbing instructor, SUNY Potsdam Leadership and Challenge Center manager

<u>SKILLS</u>

Relevant Analytical Equipment:

 Petrographic Microscope 	 Familiarity with Tromino 	 Familiarity with electrical
 Electron Microprobe 	passive seismometer	resistivity tomography
 X-ray diffractometer 	 Familiarity with portable 	
	seismometer	
Computer Software:		

 Windows OS 	 LEICA petrographic imaging 	 Familiarity with Surfer8,
 Microsoft Office 	software.	SUPCRT, Refract!,
 CorelDraw 	 Familiarity with Adobe CS6 	Reflect!, and TWQ.

Field Skills:

 Field mapping 	 Ability to carry out 	 Off-road driving
 Stream sediment 	fieldwork over long hours	 Mineral exploration
sampling	in adverse conditions	 Sample preparation for a
 Outcrop and float 	 Navigation with map- 	variety of analyses.
sampling	and-compass or GPS	

Other:

•Leadership skills	 Backpacking
 Use of technical climbing and 	 Camping
mountaineering equipment	 Backcountry cooking

PUBLICATIONS:

- Dunlop, M. and Kelson, C.R., 2011. Mineralogical and petrological study of an unnamed magnetite prospect, Owls Head Mountain, Franklin County, New York. Geological Society of America Abstracts with Programs, Vol. 43, No. 1, p. 59
- Dunlop, M., Ripley, E.M., and Li, C., 2012. A geochemical and petrological study of mafic dikes and intrusions associated with the Eagle Ni-Cu-PGE deposit in the Baraga Basin, Upper Michigan. Geological Society of America Abstracts with Programs, Vol. 44, No. 7, p. 600
- Dunlop, M., Ripley, E.M., and Li, C. (2013) Geochemistry and sulfur isotope characteristics of mafic dikes and intrusions associated with the Eagle magmatic Ni-Cu-PGE deposit, Upper Michigan. GAC-MAC Winnipeg 2013 Program with Abstracts, Vol. 36, p. 89

REFERENCES

-**Dr. Edward M. Ripley**, Indiana University (ripley@indiana.edu) (812)-855-1169 -**Dean Rossell**, Rio Tinto Exploration (dean.rossell@riotinto.com) (520)-548-4996 -**Gonzalo Mercado**, Barrick South America (gmercado@barrick.com)