

## Arch M. Reid

## Curriculum Vitae

### **Education:**

- 1955 B.Sc. Geology and Mathematics, St. Andrews University  
1957 B.Sc. (Hons.) Geology, St. Andrews University  
1961 M.Sc. Geology, University of Western Ontario  
Thesis: The Petrology of the Mount Megantic Igneous Complex. Thesis  
Adviser: Gary G. M. Boone.  
1964 Ph.D. Geology, University of Pittsburgh  
Thesis: Enstatite Achondrites. Thesis Adviser: Alvin J. Cohen.

### **Professional Employment Experience:**

- 1957-61 Preceptor, Dept. of Geology, University of Western Ontario, Organization of laboratory classes, preparation of laboratory manuals, teaching including extension and summer classes.  
1958-59 Field Geologist, Quebec Department of Mines, Summer (1958, '59). Senior assistant, field party mapping in the Grenville; Party Chief mapping the Mount Megantic area, Eastern Townships, Quebec.  
1961-63 Junior Fellow, Mellon Institute of Industrial Research, Pittsburgh. Associated with glass chemistry group; research on cryptovolcanic/impact structures, meteorites, cosmic dust  
1964 Research Assistant, University of Pittsburgh. Meteorite research.  
1965-70 Assistant Research Mineralogist, Scripps Institution of Oceanography, University of California. Development of techniques in electron probe microanalysis and X-ray diffraction. Meteorite and lunar studies, oceanic ultrabasic rocks.  
1968-69 Visiting Scientist, Department of Geophysics and Geochemistry, Australian National University. Electron probe microanalysis and petrographic study of basaltic achondrites and ultrabasic xenoliths.  
1970 Senior Postdoctoral Fellow, NASA Manned Spacecraft Center, Houston, Texas, 1970. Lunar studies. Preliminary investigation lunar samples.  
1971-75 Planetary and Earth Sciences, Division, NASA Johnson Space Center, Houston, Texas. Petrology of lunar rocks, ultrabasic inclusions, meteorites, ocean basalts. Organization of electron probe laboratory.  
1973-75 Adjunct Professor of Geology, University of Houston  
1975-86 Professor of Mineralogy and Geology and Head of Department, University of Cape Town. Deputy Dean, 1977; Acting Dean 1977; Deputy Dean 1986.  
1977-78 Team member, basaltic volcanism project, Lunar Science Institute, Houston, Texas.  
1969-70 Co-investigator, lunar sample investigations.  
1970-78 Principal Investigator, lunar sample investigations.  
1980 Visiting Scientist, Johnson Space Center. Meteorite research, experimental petrology.  
1985 Visiting Professor, St. Andrews University.  
1986 Comprehensive FRD/CSIR research support.  
1987-93 Chairman, Dept. of Geosciences, University of Houston  
1987-present Professor, Department of Geosciences  
University of Houston, Houston, TX 77204-5503  
1987-present Visiting Scientist, Lunar and Planetary Institute, Houston, TX 77058. Research on meteorites and impact craters.  
2002 Interim Director, Lunar & Planetary Institute, Houston, TX

### **Professional Societies:**

Mineralogical Association of Canada Meteoritical Society  
Sigma Xi Geological Society of South Africa

### **Publications**

- Reid, A.M.** (1960) A preliminary report on the geology of Mount Megantic. Quebec Department of Mines  
**Cohen, A.J., Bunch T.E. and Reid, A.M.** (1961) Coesite discoveries establish cryptovolcanics as fossil meteorite craters. Science 134, 1624-1625.

**Reid, A.M., Park, F.R. and Cohen, A.J.** (1964) Synthetic metallic spherules in a Phillipines tektite. *Geochim. Cosmochim. Acta* 28, 1009-1010.

**Park, F.R. and Reid, A.M.** (1964) A comparative study of some metallic spherules. *Cosmic Dust Symposium, Annal. New York Acad. Sci.* 119, 250-281.

**Reid, A.M., Bunch, T.E., Cohen, A.J. and Pollack, S.A.** (1964) Luminescence of orthopyroxenes. *Nature* 204, 1292-1293.

**Fredriksson, K. and Reid, A.M.** (1965) A chondrule in the Chainpur meteorite. *Science* 149, 856-860.

**Frazer, J.Z., Fitzgerald, R.W. and Reid, A.M.** (1965) Computer programs EMX and EMX2 for electron probe data processing. *Scripps Inst. Oceanography Ref.* 66-14

**Sinkankas, J. and Reid, A.M.** (1966) Colour-composition relationships in spessartine from Amelia, Virginia. *J. Gemmology* 10, 4, 1-10.

**Reid, A.M. and Cohen, A.J.** (1967) Some characteristics of enstatite achondrites. *Geochim. Cosmochim. Acta* 31, 661-672.

**Reid, A.M. and Fredriksson, K.** (1967) Chondrules and chondrites. *Researches in Geochemistry*, vol. 2, P.H. Abelson, Ed.

**Fredriksson, K. and Reid, A.M.** (1967) Meteorite investigations by electron microprobe techniques. *Researches in Geochemistry*, vol. 2, P.H. Abelson, Ed.

**Frazer, J. and Reid, A.M.** (1968) Routine derivation of lattice parameters from divergence diffraction. *Scripps Inst. Oceanography Report* 68-42.

**Frazer, J., Keil, K. and Reid, A.M.** (1969) Lattice parameter of kamacite in enstatite chondrites by divergent beam X-ray diffraction. *Amer. Mineral.* 54, 554-559.

**Reid, A.M., Frazer, J.Z. and Fujita, H.** (1969) Garnet analysis. *Scripps Inst. Oceanography Report* 69-21.

**Arrenhius, G. et al.** (1970) The chemistry, structure and radiation effects in lunar samples. *Science* 167, 689-761.

**Reid, A.M. and Hanor, J.S.** (1970) Pyrope in kimberlite. *Amer. Mineral.* 55, 1374-1379.

**Reid, A.M., Frazer, J.Z., Fujita, H. and Everson, J.E.** (1970) Chemical composition of the major phases in Apollo 11 samples. *Scripps Inst. Oceanography Report* 70-4.

**Reid, A.M., Frazer, J.Z., Fujita, H. and Everson, J.** (1970) Apollo XI samples: Major mineral compositions. *Proc. Apollo 11 Lunar Sci. Conf., Geochim. Cosmochim. Acta Suppl.* 1, vol. 1, 749-761.

**Dawson, J.B. and Reid, A.M.** (1970) A pyroxene-ilmenite intergrowth from the Monastery Mine, South Africa. *Contr. Mineral. Petrol.* 26, 296-301.

**Reid, A.M., Meyer Jr., C., Harmon, R.S. and Brett, R.** (1970) Metal grains in Apollo 12 igneous rocks. *Earth Planet. Sci. Lett.* 9, 1-5.

**Reid, A.M., Bass, M.N. Fujita, H., Kerridge, J.F. and Fredriksson, K.** (1970) Olivine and pyroxene in the Orgueil meteorite. *Geochim. Cosmochim. Acta* 34, 1253-1255.

**Dawson, J.B., Powell, D.G. and Reid, A.M.** (1970) Ultrabasic xenoliths and lava from the Lashaine volcano, Northern Tanzania. *J. Petrol.* 11, 519-548.

**Wilkening D, Lal, D. and Reid, A.M.** (1971) The evolution of the Kapoeta howardite based on fossil track studies. *Earth Planet. Sci. Lett.* 10, 334-340.

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**LSPET** (1971) Preliminary examination of lunar samples from Apollo 14. *Science* 173, 681-693.

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**Brett, R., Butler Jr., P., Meyer Jr., C., Reid, A.M., Takeda, H. and Williams R.J.** (1971) Apollo 12 igneous rocks 12004, 12008, 12009 and 12022: a mineralogical and petrological study. *Proc. Second Lunar Sci. Conf., Geochim. Cosmochim. Acta Suppl.* 2, 301-318.

**Brown, R.W., Reid, A.M., Ridley, W.I., Warner, J., Jakes, P., Butler Jr., P., Williams, R.J. and Anderson, D.H.** (1971) Microprobe analyses of glasses from Apollo 14 sample 14156. *NASATechnical Memorandum TMX-58081.*

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Abstracts

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