

# Fractures, Fluid Flow and Mineralization

*edited by*

K. J. W. McCaffrey (Kingston University, UK), L. Lonergan and J. J. Wilkinson (Imperial College, UK)

Faulting and fracturing play an important role in enhancing permeability, facilitating fluid flow and controlling hydrothermal mineralization in rocks. This is the main theme of this volume and the papers included are intended to provide an overview of current ideas at the interfaces of structural geology, fluid flow and mineralization research. Included are speculative, but provocative ideas that should stimulate a re-examination of existing concepts regarding fluid flow in fractures systems and the formation of hydrothermal mineral deposits. Also highlighted are recent advances showing the significance of the development of fracture connectivity in focusing fluid flow. The collection concludes with a thematic set of papers presenting new research results on the genesis of the world-famous Carboniferous base metal deposits of Ireland.

The volume is intended for geoscientists studying the flow of fluids through fault, vein and fracture systems or the genesis of mineral deposits and will be of interest principally to those involved in the minerals industry and in academia.

*It is a state-of-the-art review of fluid flow associated with fractures and hydrothermal deposits controlled by fracture systems.*

Fred Kofi Boadu in *The Leading Edge*, June 2000

*Taken as a whole, this is an excellent volume that provides a wide-ranging view of a rapidly developing field.*

B. W. D. Yardley in *Mineralogical Magazine*

*The book certainly provided me with much food for thought...the articles...stand out because they critically evaluate conceptual models of geological processes employing novel tools from scientific disciplines other than the earth sciences.*

Stephan K. Matthai in *Journal of Structural Geology*, Vol. 22

*Here is a useful collection of twenty papers on varied recent research related to structural and economic geology: the creation of rock fractures, flow of fluids through them and the causes of mineral deposition within them.*

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*Cover illustration:* Hydrothermal breccia and vein array containing quartz, ankerite and pyrite hosted by Lower Palaeozoic siltstone, Latteragh Quarry, County Tipperary, Irish Midlands. Photo by C. Everett/J. Wilkinson.

