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Symposium "The origin of diorite and associated rocks"

UNIVERSITY OF LAUSANNE, SWITZERLAND
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The essential stuff of oceans and continents, basalts and granitoids respectively, have had more than their share of meetings and discussions in recent years. This bimodal approach has led to the neglect of those rocks that lie in the saddle between the SiO_2 % maxima, especially the plutonites of intermediate composition.

This is the view of the convenors of a meeting on "Diorites and Associated Rocks", held at the University of Lausanne, September 22–23, 1989. Invited speakers held forth on a variety of topics covering the full spectrum of known mechanisms either producing primary liquids of intermediate composition (excluding andesites) or leading to such compositions in various ways. Some primary sources are to be found in the mantle, others in the crust, according to different authors. Intermediate compositions may be reached by all the classic modes of differentiation, in particular crystal fractionation, magma mixing and immiscibility, mimicking the granite problem.

The meeting was introduced and chaired by W. Pitcher (Liverpool), and an account of the proceedings is to be found in Terra Nova (VANDER AUWERA, 1989, p. 509–510). All the participants are deeply grateful to the "Fondation Herbette" of the Science Faculty of the University of Lausanne and to the "Fondation du 450e anniversaire de l'Université de Lausanne" who funded the meeting as well as the publication of the articles which appear in this volume of the Swiss Bulletin of Mineralogy and Petrology.

Jean-Clair Duchesne, Université de Liège
Stephen Ayrton, Université de Lausanne

PAPERS AND POSTERS PRESENTED

W. Pitcher (Liverpool): *Introduction*

B. Bonin and A. Giret (Paris): *Plutonic alkaline series: Daly gap and intermediate compositions for liquids filling up crustal magma chambers* (this volume, p. 175–187).

J.C. Duchesne (Liège): *Origin and evolution of monzonorites related to anorthosites* (this volume, p. 189–198).

R.A. Wiebe (Lancaster): *Dioritic rocks in the Nain complex, Labrador* (this volume, p. 199–208).

L. Barbero, C. Villaseca and P. Andonaegui (Madrid): *On the origin of the gabbro-tonalite-monzogranite association from Toledo area (Hercynian Iberian belt)* (this volume, p. 209–221).

F. Bussy and St. Ayrton (Lausanne): *Quartz textures in dioritic rocks of hybrid origin* (this volume, p. 223–235).

J. Vander Auwera (Liège): *Evolution of the Traversella diorite and related skarns (Ivrea, Italy)* (this volume, p. 237–245).

R. Rapp (Troy): *Vapor-absent amphibolite/ eclogite melting experiments at 8–32 Kbar: intermediate composition partial melts and residual mineralogy.*

A.R. Philpotts (Storrs): *Immiscibility in the development of intermediate plutonites.*

A. Borriani, L. Burlini and A. Uggeri (Milano): *Petrology of the Late-Hercynian diorites (appinites) of the Serie dei Laghi – Southern Alps.*

E. Callegari and P. Ulmer (Torino/Zürich): *Genesis of intermediate calc-alkaline rocks by differentiation and contamination of mantle-derived melts: an example from the Adamello batholith.*

C. Coulon, M.J. Zorpi and J.B. Orsini (Marseille): *Hybridization and zonation in calc-alkaline granitoid plutons.*

K.H. Diethelm (Zürich): *Synintrusive Gänge und "endogene" Xenolithe: Magma-Mingling in der Bergeller Intrusion* (additional paper; this volume, p. 247–264).