

NOTES

DST CONTACT PROGRAMME ON "ART OF PETROGRAPHY: A VALUABLE GUIDE FOR PETROLOGISTS"

A contact programme on "Art of Petrography: a valuable guide for petrologists" sponsored by the Department of Science and Technology (DST), New Delhi was organized in Banaras Hindu University (BHU) from 19-09-2000 to 02-10-2000. The course was aimed at reviving interest in the lost art of petrographic study as an indispensable tool for petrologists. A total of 32 participants from all over India comprising university lecturers, research scholars and geologists from Government organizations attended the training programme.

Dr. Anand Mohan, Reader, BHU was the course director. The faculty comprised eminent geoscientists from the country like Dr. R.K. Lal (BHU), Dr. R.S. Sharma (Rajasthan University), Dr. C. Leelanandam (Osmania University), Dr. Mallikarjun Joshi (BHU), Dr. Anand Mohan (BHU), Dr. Somnath Dasgupta (Jadavpur University), Dr. A.K. Jain (Roorkee University), Dr. D. Mukhopadhyay (University of Calcutta), Dr. B.K. Chatterjee (BHU), Dr. R.N. Tiwari (BHU), Dr. Santosh Kumar Singh (Kumaon University).

The inaugural address was delivered by Dr. S.K. Tandon, (Chairman, PAC, DST - University of Delhi) on the application of cathodoluminescence in the textural studies of carbonates. The first lecture of the programme was delivered by R.K. Lal on 'Time relationships between phases of deformation and metamorphic crystallisation', and this theme was elaborated by R.S. Sharma in his lecture on textures in crystalline rocks. A.K. Jain covered structures and textures related to heterogeneous deformation with special reference to ductile shear zones. D. Mukhopadhyay gave a discourse on deformation textures with special emphasis on the Singhbhum shear zone.

The second major theme of the contact programme was on reaction textures in metamorphic rocks and the derivation of P-T-t paths. The theme was tackled from two angles: the first one started with the phase rule, binary systems, multi-component systems, chemographic representation of metamorphic systems, principles and construction of Schreinemaker's bundles and study of petrogenetic grids, which were covered by R.S. Sharma, Anand Mohan and R.K. Lal. The second angle was the study of reaction textures such as corona and symplectite and their utility in deciphering P-T trajectory of metamorphic rocks through petrogenetic grids, which were covered by S. Dasgupta, Anand Mohan and C. Leelanandam. S. Dasgupta also described reaction textures and petrogenetic grids relevant to granulite metamorphism of high Mg-Al rocks and calc-silicates, as well as characteristics and consequences of IBC and ITD paths. C. Leelanandam described some aspects of the textures of layered complexes and pyroxene exsolution textures from ferro-syenites. Mallikarjun Joshi dealt with the procedural techniques of the polarizing microscope and the universal stage. B.K. Chatterjee and R.N. Tiwari explained the sedimentary petrographic techniques and S.K. Singh dealt with reaction textures of enclaves. Practical and theoretical classes were held at regular intervals. The participants were also given the opportunity to speak on their research topics.

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