

## LETTERS OF THE WORKING GROUP ON MANGANESE FORMATIONS OF THE INTERNATIONAL ASSOCIATION ON THE GENESIS OF ORE DEPOSITS

### PROVISIONAL PROGRAMME OF THE WORKING GROUP ON MANGANESE FORMATIONS SPONSORED BY THE INTERNATIONAL ASSOCIATION ON THE GENESIS OF ORE DEPOSITS (IAGOD)

The chief task of the Working Group on Manganese Formations (WGMF) established during the 2nd Symposium of the IAGOD held in 1967 in St. Andrews (Scotland) is to promote the exchange of scientific information, creative connections among scientists dealing with different aspects of geology, mineralogy and geochemistry of the manganese formations.

The Provisional Chairman of the WGMF is Professor GYULA GRASSELLY (Dept. of Mineralogy, Geochemistry and Petrography of the Attila József University at Szeged, Tánácsics M. u. 2., Szeged, Hungary) appointed for this work by the Council of the IAGOD.

During his visit to Moscow (October 1969) the Provisional Chairman asked for the kind assistance of IGOR M. VARENTSOV (Geological Institute of the Academy of Sciences of the USSR, Pizhevski pereulok 7, Moscow Zh-17, USSR) to participate in the organizational work as Provisional Secretary of the WGMF.

Professor GRASSELLY and DR. VARENTSOV — national representative of the USSR in the WGMF — had thoroughly discussed the programme and future activity of the WGMF. The outlines and main points of the programme have been discussed with Professor VLADIMIR I. SMIRNOV, member of the Academy of Sciences of the USSR, Vice-President of the IAGOD.

#### *Participation of the WGMF in the IMA-IAGOD Meeting*

The statutory and the first scientific session of the Working Group on Manganese Formations of the IAGOD will be held during the IMA-IAGOD Meeting '70 (August 28—September 2, Tokyo—Kyoto, Japan). For the statutory meeting, discussion of organizational questions the Organizing Committee of the IMA-IAGOD Meeting '70 provided fixed time (August 28, Tokyo), and another time for the scientific session (September 2, Kyoto). See time-table of the Second Circular of the IMA-IAGOD Meeting.

The Working Group on Manganese Formations calls the attention of specialists in manganese ore researches to the session of the Working Group during the IMA-IAGOD Meeting in 1970, in Japan. National representatives are asked to promote that manganese ore research in their countries be worthily represented by papers submitted and lectures delivered at the session.

In case of any questions, please turn to the Provisional Chairman.

A provisional list of the staff of the Working Group on Manganese Formations of the IAGOD as well as a programme of the activity of the WGMF should be confirmed by the statutory meeting mentioned above.

The national representatives of the Working Group listed below were requested by the Provisional Chairman to undertake this task and they will be confirmed by the First Working Group Meeting, which will also elect the Chairman and Secretary.

#### *Staff of the Working Group*

GYULA GRASSELLY, professor, Head of the Dept. of Mineralogy, Geochemistry and Petrography, Attila József University, Szeged, Hungary, national representative of Hungary, Provisional Chairman.

IGOR M. VARENTSOV, senior scientific worker, Geological Institute of the Academy of Sciences of the USSR, Moscow, national representative of the USSR, Provisional Secretary.

SŪPRIYA RŌY, reader in Geology, Dept. of Geology, Jadavpur University, Calcutta, India, national representative of India.

JOHN VAN N. DORR II, research geologist, Geological Survey, Washington, U.S.A., national representative of the U.S.A.

LUBOR ŽAK, docent, Dept. of Mineralogy, Charles University, Prague, Czechoslovakia, national representative of Czechoslovakia.

LUBOMIR VASSILEFF, Geological Institute of the Academy of Sciences of Bulgaria, Sofia, national representative of Bulgaria.

VOJISLAV VUJANOVIČ, chief geologist, Inst. of Nuclear and Other Raw Materials, Belgrade, national representative of Yugoslavia.

Besides the above mentioned national representatives it would be desirable to greet among the members of the Working Group representatives of countries of Africa, South America, Australia, Japan and other countries interested in a comprehensive research of manganese formations. It is the duty of the Provisional Chairman to promote connections with the help of national representatives.

#### *Publication of papers*

Papers to be delivered in the IMA-IAGOD Meeting '70 will be published by the Organizing Committee (see Second Circular of the IMA-IAGOD Meeting '70 Tokyo—Kyoto). The date by which the abstracts (not more than 250 words) must be submitted to the Organizing Committee of the Meeting (Science Council of Japan, Ueno Park, Tokyo 110, Japan) is **before 31 December 1969** and papers **not later than 15 March 1970**.

The „semi-official” journal of the Working Group on Manganese Formations is Acta Mineralogica-Petrographica Universitatis Szegediensis, Szeged, Hungary, published yearly at the end of the year. It is planned to publish in this journal annual reviews of national representatives on manganese researches or summaries of papers published in different countries, concerning problems of manganese ore research. It is also possible to publish comprehensive papers on different aspects of geology and geochemistry of manganese formations.

#### *Exchange of standard manganese mineral specimens*

The WGMF thinks that it would be advisable if each researcher or at least the national representatives of the respective countries had a standard collection of well defined and typical manganese mineral and ore specimens, respectively. Such a

collection could facilitate the mutual understanding and interpretation as well as control of basic problems of mineralogy and geochemistry of manganese ores. Therefore, during the session of the WGMF in 1970 in Tokyo and Kyoto it would be desirable that the national representatives discussed the possibilities of preparation of sets of standard samples of manganese ores and minerals from the most profoundly investigated deposits of their countries. The exchange of such standard collections among national representatives will serve well as comparative material.

#### *Preparation of the 2nd International Symposium on Manganese Ores*

During the WGMF session in 1970 in Tokyo and Kyoto, besides the problems mentioned above it is also planned to discuss and begin the preparation of the programme of the 2nd International Symposium on Manganese Ores during the 24th International Geological Congress to be held in Montreal, Canada, 1972.

It seems advisable to discuss possible topics of the 2nd International Symposium on Manganese Ores outlined below. The topics will be coordinated by the experts denoted. Their duties include preparation of materials for future publication in the Transactions of the Symposium.

The main topics will be as follows:

- I. General mineralogical and geochemical problems of the manganese ores (GY. GRASSELLY).
- II. Manganese ores in volcano-sedimentary formations (JOHN VAN N. DORR II).
- III. Manganese ores of ancient formations (SUPRIYA ROY).
- IV. Processes of manganese ore formation. Manganese in natural waters (IGOR M. VARENTSOV).

The national representatives of the WGMF and other researchers interested in the activity of the Working Group and manganese ore researches may send their comments and proposals concerning the preparation and topics of the 2nd International Symposium on Manganese Ores 1972, Canada to the Provisional Chairman of the WGMF **not later than 30 June 1970**. Comments and proposals concerning the future activity of the Working Group on Manganese Formations are requested to be send at the same address by the date given.

#### *Preparation of an international monography on manganese ores*

During the WGMF session in 1970 in Tokyo and Kyoto it is planned to consider possibilities of preparing materials for a collective international monography on manganese ores. It may include the following chapters and topics, respectively.

- I. Methods of investigation of manganese ores
  1. Chemical analysis including general chemical analysis, rapid analysis, determination of minor elements by spectral analysis as well as methods of X-ray spectral analysis, neutron activation analysis
  2. Ore microscopy of manganese ores
  3. Electron microscopy
  4. Infra-red spectroscopy
  5. X-ray analysis, X-ray diffraction
  6. Magnetometric measurements
  7. Differential thermal analysis, thermogravimetry
  8. Review of modern methods of physical analysis of solids applied to manganese ores

In the treatment of methods summary of available data, their critical review and presentation is included.

- II. Geology, mineralogy and geochemistry of manganese ores
  - 1. Classification of manganese deposits
  - 2. Geology of the main types of manganese deposits
  - 3. Specific mineralogical and geochemical features of the different types of manganese deposits
  - 4. Processes of formation of manganese ores
- III. Concise review of practical use of manganese ores
- IV. Bibliography

In the course of the IMA-IAGOD Meeting to be held in 1970, in Japan, it will be possible to elaborate the above outlined draft in details, considering remarks sent in written form to the Working Group as well as verbal amendments done at the session. Furthermore, appropriate groups undertaking the task to elaborate certain topics could be formed during the session. The Working Group welcomes any help promoting this work by researchers interested in the programme of the Working Group and in manganese ore researches, respectively.

To solve the complicated scientific problems the WGMF recommends all the specialists to address their national representatives of WGMF for assistance in establishing scientific connections with researchers working in the particular narrow field of manganese ore researches.

All the above stated items are of preliminary character. They might be done more comprehensive and precise after discussion at the session of WGMF.

IGOR M. VARENTSOV  
Provisional Secretary of the WGMF

PROF. GYULA GRASSELLY  
Provisional Chairman of the WGMF

