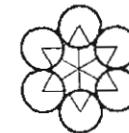


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ASSOCIATION INTERNATIONALE POUR L'ETUDE DES ARGILES - INTERNATIONAL
ASSOCIATION FOR THE STUDY OF CLAYS - INTERNATIONALE VEREINIGUNG ZUM
STUDIUM DER TONE - МЕЖДУНАРОДНАЯ АССОЦИАЦИЯ ПО ИЗУЧЕНИЮ ГЛИН

newsletter

February, 1983 r19

Secr. Gen. A.J. Herbillon, Place Croix du Sud, 1 - B.1348 Louvain-la-Neuve, Belgium

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President's Podium

This has been a year of quiet activity for AIPEA. The various national groups held their annual meetings and it is gratifying to read the reports of these meetings in the Newsletter. This gives the illusion of partial participation. We have learned of the foundation of at least one new National Clay Minerals Group (Jordan) and hope that there are more to follow. Application of National Groups for the status of Affiliated Societies has been somewhat tardy. I hope that in the wake of Dr. R.C. Mackenzie's note in this Newsletter there will be an accelerated response. Please do not wait with your applications until the time of the next International Clay Conference approaches. It is in the period between conferences that contact between the National Groups and AIPEA is most important.

During the last year I was fortunate to have been able to visit some of our members in their laboratories. I hope to visit many more in the course of my term of office. It is always a pleasure to witness the wide scope of the research projects and to experience that friendship which has been a characteristic of our Society throughout its existence.

May I use this Podium to wish you all a very happy New Year filled with fruitful activity. Although my good wishes will reach you with some delay, I hope that they will still be acceptable.

L. Heller-Kallai

Council Affairs

Affiliation of National Societies

No meeting of the Council took place since the 7th International Clay Conference in Italy. In the beginning of 1982, the Council decided, however, to set up a special procedure to examine by mail the applications of the national societies wishing to become affiliated with AIPEA. On January 1st 1983, five Societies i.e. the Clay Minerals Group of the Mineralogical Society of Great Britain and Ireland, the Clay Science Society of Japan, the

Belgian Contact Group on Clays, the Israeli Society for Clay Research and the Geological Society of China got their application approved by the Council.

More recently, applications have also been received from the "Gruppo Italiano of AIPEA" and from the Czechoslovak Group for Clay Mineralogy and Petrology. Further, several AIPEA Liaison Officers have also notified the Secretary General with the interest of their Society for this status. It can therefore be anticipated that, by the end of 1983, the number of Societies to be officially affiliated shall be much enlarged.

From the letters exchanged between the Liaison Officers and the Secretary General, it was felt that the reasons (and the advantages) behind the introduction of this new grade in membership of the revised AIPEA Statutes were not always fully understood. The following note, kindly prepared by the Past-President, Dr. R. C. Mackenzie, may therefore be of great help to any society that has still to make its decision.

The Status of AIPEA Affiliated Society

Paragraph 3 of the Statutes, approved at Pavia on 12 September 1981, contains regulations governing membership of AIPEA and in particular specifies a new grade - namely, that of Affiliated Society. It is, of course, not possible to give, in formal Statutes, any reason for such a change in practice and, although the thoughts of Council were outlined at the General Assembly, many members, including those influential in Societies that could become affiliated, would undoubtedly like to have some clarification and more background information.

There were two main reasons behind the move :

1. It ensures a close formal link between AIPEA and national (or regional) societies dealing with clays.
2. In some regions it is easier for a society to subscribe to an international organization such as AIPEA than it is for individuals. Council hope that appropriate societies in such regions will become affiliated, thus enabling all their members to become much more aware of AIPEA activities.

A possible additional advantage is that establishment of a formal link should enable AIPEA to be kept fully up-to-date with the activities of all national societies and to publicise these through the Newsletter.

Having established the desirability of this course of action, Council decided (a) that each application be approved by Council before affiliation becomes effective and (b) that a modest annual subscription be payable. The first of these is essentially a formality, but it is a safeguard against any unworthy body (should such exist) being automatically accepted; on the other hand, the second makes it obligatory for AIPEA to provide something tangible to all Affiliated Societies as a return for their subscription. Since societies likely to be interested in affiliation vary much in size, the annual Affiliation subscription is graded (see By-Law 1) so that, in the majority of cases, the subscription should not cost more than about \$ 0.50 per member per annum.

The privileges that national societies and their members receive in return for affiliation are specified in the By-Laws. Thus, according to By-Law 4, each Affiliated Society will receive 5 copies of all publications, announcements and circulars (except, of course, Conference Proceedings) of AIPEA so that their membership can be kept well informed of international activities. Moreover, individual and corporate members of such societies can become members of AIPEA for only two-thirds of the normal annual subscription (By-Law 1) and even those who do not exercise this option are entitled to a reduced Conference fee (By-Law 3). Societies that affiliate are therefore opening windows on the international scene for their members.

Lest it be thought that this reduces the incentive for individuals to join or continue in membership of AIPEA, it must be pointed out that all members of AIPEA automatically get individual copies of publications, announcements and circulars (except, Conference Proceedings) and that the reduction in Conference fee for a member (\$ 40 - see By-Law 3) is very much greater than 4 year's subscription, whether that is taken as a member of an Affiliated Society (\$ 16) or not (\$ 24). Full members of AIPEA therefore retain privileges, but the institution of Affiliated Societies should lead to a wider international interest in things argillaceous.

For purely practical reasons it was impossible to institute the Affiliated Society grade for 1982: it will, however, operate from 1st January 1983 and Council hope all eligible societies will apply.

R.C. Mackenzie

AIPEA representation at the 12th International Congress of Soil Science

AIPEA was officially represented by its Secretary General at the 12th International Congress of Soil Science held in New Delhi (India), February 8-16, 1982.

At the end of the Congress, the Commission VII (Soil Mineralogy) of ISSS evoked the possibility of organizing a joint session with AIPEA during the next International Clay Conference (Denver, 1985). This matter is now with the President of Commission VII of ISSS, Dr. J.B. Dixon, and the local AIPEA Organizing Committee in Denver.

During the same Conference, a new ISSS Working Group named "Working Group for the Study of Soil Colloids Surfaces" was founded. Several soil scientists who are also AIPEA members took an active part in the foundation of this Working Group.

Next Council Meeting

The next meeting of the Council will take place in Prague, Czechoslovakia, during the 5th Conference of the European Clay Groups (August 31 - September 3, 1983).

The W.F. Bradley Award

One of the aspects always close to the hearts of Council in their deliberations has been the encouragement of young scientists to pursue a career in clay mineralogy. With this in mind they instituted, at the 1981 International Clay Conference in Italy, the above Award, the regulations of and information about which have already been given in AIPEA Newsletter, 1982, No. 18, pp. 15-16. However, it might encourage suitable candidates to apply - or indeed encourage members to persuade suitable candidates to apply - if more background information were available.

In 1979, when Council considered the financial status of AIPEA against a forecast of probable income and expenditure over the next few years, they decided that some capital reserves should be made to do useful work while themselves being protected against any unforeseen catastrophe. The scheme that received unanimous support was institution of an Award to encourage young scientists and, since such a scheme would have had the wholehearted support of the late Dr. W.F. Bradley, who had died while holding the Presidency of AIPEA, it was agreed the Award be named in his honour.

To finance this Award, which will consist of a certificate together with the monetary payment (not exceeding \$ 1000) specified at the time the Award is advertised, a certain sum of capital has been invested at an advantageous rate and it has been stipulated by Council that only the interest on this sum can be used to support the Award. The capital sum is thus protected and arrangements have been made to increase, or decrease, it at any time Council should decide this necessary, either to increase the value of the Award or to recover a sum for urgent and unforeseen eventualities in AIPEA affairs.

The first W.F. Bradley Award will be made in connection with the 1985 International Clay Conference in Denver, Colorado, U.S.A., but the actual monetary value will not be decided until Council meets in 1983. Thereafter, full details will be publicized by posters to be issued to members: so, please, DISPLAY THESE PROMINENTLY IN YOUR ESTABLISHMENTS - and encourage entries of high quality.

N.B. The regulations for the W.F. Bradley Award will again be published in the next Newsletter (1984). Copies of these regulations (including the application form) are also available from the Secretary General.

International Clay Activities

Report on the meetings of the IGCP WG No 23 Genesis of Kaolin on Sept. 9 and 11 1981 in Bologna and Pavia during the 7th International Clay Conference

1. The Project No 23 terminated in 1980.
2. The Final Report will be prepared by H.H. Murray (editor), M. Störr and M. Kuzvart, and will consist of following parts : Preface, History of the project (M.K.), Genesis of kaolin (W. D. Keller), Kaolins in Central Europe (M.S.), in North America (H.H.M.), in Japan (H. Minato), Conclusions (M.K.). It will be printed by Univ. of Indiana in Bloomington and submitted to the IGCP Secretary in 1982.
3. The monograph edited by H.H. Murray will be published later by Wiley and Sons. The deadline for submission of reports on kaolins in England, France, Spain, Italy, Portugal, Bulgaria, Yugoslavia, Hungary, Greece, Romania and Australia is April 1, 1982. Three reports were already submitted.

4. The part of the monograph concerned with countries in Asia will be discussed in Bangkok on April 1 to 4, 1982, during the symposium on land use. Asian subgroup of the future new group will be formed by H. Minato. P. de Souza Santos will organize a subgroup for Latin America later. The present group has no safe contacts to Africa.
5. New project proposal will be submitted by new project leader elected in 1982 before November 30, 1982. H.H. Murray proposed to establish three subgroups : 1. clays, 2. bentonites, 3. atapulgite + sepiolite + palygorskite. Three regional subgroups are also proposed : SE Asia, Lat. America, Africa.
6. Programme for 1982: Meeting of the working group during the XIII Congress of International Mineralogical Association in Varna, Bulgaria (September 19 to 25, 1982). In case that the session in Varna would not be possible to organize, the members of the WG should propose the place of meeting in 1983.
7. Members of the WG 23 were asked to submit (to the secretary) references of their papers published in 1979, 1980 and 1981 for the new IGCP Catalogue, and to send 2 copies of these papers to the IGCP Secretariat.

Participants of the meeting in Pavia on September 11, 1981 : Minato, Bailey, Störr, Shaikh, de Souza Santos, Kraus, Galan, Zheng Zhi, Szpila, Murray, Kuzvart (in addition to them, following members of the WG were present at the meeting on Sept. 9 in Bologna : Köster, Lombardi, Loughnan, Wieden, Mattias, Rousko).

P.S. The 11th International Kaolin Symposium in Rennes, June 27 and 28, 1980, was organized by Professor Jacques Esteoule, who was also the leader of excursion to kaolin deposits in Bassin de Charentes, at Marcognac and Indre, to halloysite at Le Buisson and Les Eyzies, and to several ceramic factories and places of general geological and historical interest (June 29 to July 5, 1980). Fifteen members of the Group were present.

February 25, 1982

Dr. M. Kuzvart
IGCP WG. No 23
Secretary 1971-1981

National Clay Groups

Australia

The 8th Conference of the Australian Clay Minerals Society (ACMS) was held at the Waite Agricultural Research Institute, Glen Osmond, South Australia from August 18 to August 20, 1982. This conference was attended by about 70 participants and 25 papers were read.

At the business meeting following the conference, it was decided that the ACMS should become affiliated with AIPEA. The new President and Secretary of the ACMS are respectively Dr. R.A. Eggleton (Geology Department, Australian National University, Canberra A.C.T.) and Dr. Pat. T. Walker (CSIRO Division of Soils, Black Mountain, Canberra ACT).

R.M. Taylor

Belgium

Dr. F. De Coninck was the organizer of the 1982 meeting of the Belgian Clay Group.

This meeting, devoted to the "Surface Properties of Clays in Soils with Variable Charge", took place in Ghent on June 25 and was attended by about 40 participants.

Soon after this meeting, the Group decided to change its official name and to apply for the status of AIPEA affiliated society. The new President of the "Belgian Contact Group on Clays" is Dr. R.A. Schoonheydt (K.U.L.-Leuven). Dr. W.E.E. Stone (M.R. A.C.-Tervuren and U.C.L.-Louvain-la-Neuve) was nominated as Secretary.

A.J. Herbillon

China

The first National Symposium on Refractory Clays was held in Taiyuan, Shansi Province from October 13-18, 1982. It was organized by the Association of Non-metallic Mineral Deposits of the Geological Society of China. About 100 participants from different

provinces and institutes attended the Symposium, 60 papers were presented in the following 3 sessions:

1. Geology and prospecting works
2. Mineralogy and petrology
3. Comprehensive utilization and experimentation.

The meeting opened with a plenary lecture by Dr. Zheng Zhi on "The Study of Tonstein in China". One-day field excursion was arranged to visit the refractory clay deposits of Eastern Hill in Taiyuan.

The First National Symposium on Raw Materials of Ceramics took place in Hengshan, Hunan Province from Nov. 10 to 15, 1982. It was organized by the Association of Mining Geology of the Geological Society of China. About 90 participants from different disciplines (such as Geology, Ceramic Technology, Mining Industry, etc.) attended the meeting. Field excursion was arranged to visit one of the largest kaolin deposits in China -- Hengshan, Hengyang Kaolin Deposit.

Zheng Zhi

Czechoslovakia

The 9th Conference on Clay Mineralogy and Petrology was held in Zwolen, central Slovakia, from August 31 to September 3, 1982. The host institution was the School of Forestry and Wood Industry. Thirty papers from more than 50 presented lectures were accepted for publication in the volume of the 9th CCMP. They will be published mostly in English, by the Charles University, Prague. A two-days excursion led to the deposits of primary kaolin, sedimentary kaolinite clay, soil profiles of ando-soils, bentonites with silex and zeolitic rocks in central Slovakia.

J. Konta

France

Two meetings were held by the "Groupe Français des Argiles" in 1982.

In Paris, on March 25th; the theme of the meeting was "Traces elements and clays formation" and the following papers

were read.

- Regard critique sur certains traceurs géochimiques.
M. Steinberg.
- Les éléments traces des argiles; des marqueurs géochimiques.
C. Mosser.
- Influences océaniques et continentales dans les premiers dépôts de l'Atlantique Nord.
P. Debrabant and H. Chamley.
- Valeurs des argiles comme traceurs sédimentaires. Application aux reconstitutions géologiques.
F. Grousset, C. Latouche and N. Maillet.
- Caractérisations de l'origine des argiles par les terres rares.
C. Courtois-Bonnot.
- Etude par différentes techniques physiques (R.X, Mössbauer, Exafs) de la synthèse en milieu oxydant des smectites ferrifères.
A. Decarreau, D. Bonin, G. Callas and C. Couty.
- Stabilité des kaolinites et des smectites dans les sols et les altérations.
Y. Tardy and B. Fritz.
- Populations de monoparticules d'argiles. Analyse par microsonde électronique.
H. Duplay.
- Néof ormation de smectites à partir de frustules de diatomées; mise en évidence par des techniques de microscopie électronique.
D. Trauth-Badaut.
- Adsorption et précipitation de l'octylbenzène sulfonate de sodium par la kaolinite, l'illite et la chlorite.
J.P. Zundel and B. Siffert.
- Cristallographie des défauts dans les argiles: nouveaux modèles.
A. Plançon, V.A. Drits and B.A. Sakharov.

The second meeting took place in Clérac (Charentes Maritimes) from September 22 to September 24 and was organized jointly with Argiles et Minéraux A.G.S..

Besides the visits at different factories and the field trips to several quarries, the programme was as follows :

- L'industrie et la formation des ingénieurs et des techniciens.
P. Bock.
- Argiles expansées et matériaux cellulaires et leurs utilisations.
H. Tixier.
- Briques en argile stabilisée sans cuisson.
M. Albenque.

- Argiles greffées: leur utilisation en caoutchouc.
P. Garin and Y. Landler.
- Utilisation de matériaux argileux dans le traitement de certains déchets organiques toxiques.
J. Veron, J.M. Blanchard and A. Navarro.
- Incorporation des argiles des Charentes dans les pâtes grès-cérame.
J.F. Delon, J. Yvon and M. Vauquelin.
- Les cristaux liquides et leur orientation par les argiles.
L. Barny.
- Cadre géologique et minéralogique des argiles des Charentes.
J. Dubreuilh, P. Marchandour and M. Thiry.
- Etude par spectroscopie I.R. des hydroxydes de structure de kaolinite, dickite et halloysite.
R. Prost and Ph. Cambier.

Abstracts of the papers read during both the spring and the fall meetings of the G.F.A. are available from the Secretary of the Group: M. Ratureau, Laboratoire de Cristallographie, rue de Chartres, F-45046 Orléans Cedex (France).

The next meeting of the G.F.A. will be held in Paris on March 24th 1983. The theme will be "Gels et Colloïdes".

M. Ratureau.

Great Britain and Ireland

Spring Meeting 1982. This meeting was organized jointly with the British Occupational Hygiene Society and was held at the University of Edinburgh on April 16, 1982. The theme of the meeting was "Clays and Fine-Grained Minerals in Relation to Health". Abstracts of the papers read at this meeting may be obtained from the Group Secretary, Dr. M.J. Wilson, Dept. of Mineral Soils, The Macaulay Institute for Soil Research, Craigiebuckler, Aberdeen, A89 2QJ.

Autumn Meeting 1982. This meeting was held at the Royal Entomological Society, London on November 5th, 1982. The theme of the meeting was "The Mineralogy of Soils and Sediments with Particular Reference to Iron Oxides". The meeting was opened by a keynote address on Recent Aspects of Iron Oxides in Soils and Sediments by Prof. U. Schwertmann. The following papers were also read.

- Transport and precipitation of iron oxide in a poorly drained alluvial soil.

- E. Paterson and J.H. Gauld (Macaulay Institute, Aberdeen).
- Iron oxides in lateritic soils in South Western Australia.
R.J. Gilkes, R.R. Anau and S.A. Siradz (University of Western Australia).
- Some new insights into the structure of synthetic ferrihydrite.
(Macaulay Institute, Aberdeen).
- Mössbauer studies of some ferrous iron precipitates.
V. Man and A.H. Cultler (Plymouth Polytechnic).
- Mössbauer studies of soil goethites.
E. Murad (Technische Universität, München).
- Particle size and mineralogical analysis of suspended sediments from a para-glacial lake system.
B.R. Bryant and D.J.A. Williams (University College of Swansea).
- Recognition of volcanic clays and the significance of heavy minerals.
D.A. Spears (University of Sheffield).
- Aluminous minerals associated with chalk solution hollows.
R.D. Wilmot and B. Young (Institute of Geological Sciences).

At the Annual General Meeting the following Committee was elected for the coming year.

Chairman	Mr. J.A. Bain
Secretary	Dr. M.J. Wilson
Treasurer	Dr. D.C. Bain
Principal Editor	Dr. D.J. Morgan
Committee Members	Dr. J.M. Adams
	Dr. A. Leech
	Dr. P. Loveland
	Dr. H. Shaw
	Dr. C.M. Shepperd
	Dr. M.J. Stentiford

Fifth Meeting of the Geological Societies of the British Isles

This meeting took place at the University of Glasgow from Sept. 22-26, 1982. In conjunction with the British Sedimentological Research Group the Group organized at half-day symposium on "Clay Minerals in Recent Sediments". The following papers were read.

- Exchange properties of recent sediments from the deep sea.
D.J. Hydes and M.S.N. Carpenter (Institute of Oceanographic Sciences).
- Plutonium occurrence and distribution in the sediments of the Wyne Estuary, north-west England.
J. Rae (University of Reading), S.R. Aston, D.J. Assinder and

- D.A. Stanners (University of Lancaster).
- Adsorption of radio-caesium in the sediments of the Clyde Estuary.
W. Mackay (University of Glasgow).
- Suspended sediment aggregation in the Tay Estuary.
J. McManus (University of Dundee).
- Nature and origin of authigenic smectites in recent marine sediments.
H.F. Shaw and T. Cole (University of London).

Spring 1983. The Group is organizing two meetings at this time.

The first will be held at the University College of Wales, Aberystwyth on March 29th, 1983 on the theme "Recent Developments in Clay Mineral Applications". Further details may be obtained from Dr. J.M. Adams, Edward Davies Chemical Laboratories, University College of Wales, Aberystwyth, Dyfed SY23 INE or from the Group Secretary.

The second meeting is being organized jointly with the Petroleum Exploration Society of Great Britain and will be held at the University of Cambridge on April 7 and 8, 1983 on the theme "Patterns of Mineral Diagenesis on the North-West European Shelf and their relation to facies and hydrocarbon accumulations". Further details may be obtained from Dr. C.V. Jeans, Dept. of Applied Biology, Pembroke Street, Cambridge CB2 3AX or from the Group Secretary.

M.J. Wilson

Hungary

During the sessions held monthly by the Clay Group of the Hungarian Geological Society, the following papers were read :

January

- Clay mineralogy of Neogene pelitic formations in shallower areas of the Pannonian Basin.
Vicizian I.

February

- Clay minerals associated with the hydrothermal mineralization at Gyöngyösoroszi, Matra Mts, N. Hungary.
Nagy B.

March

- New results in the investigation of the Istenmezeje bentonite deposit, N. Hungary.
Csillag J., Radovits L.

May

- Two types of amorphization of kaolinite.
Juhász Z., Wojnarovits E.
- Information on the 6th Greifswald Clay Conference.
Viczián I.

September

- Flocculation of clay suspensions with macro-molecular flocculents.
Gilde M. (Bratislava)
- Structural analysis and crystal chemistry of layer silicates.
Cicel B.

October

- Intercalation of organic molecules and salts in the interlayer space of kaolinite.
Becker H.O. (München)
- Clay mineral transformation in soils.
Kapoor B.S. (New Delhi)
- Diagenesis of pelitic sediments in the Vienna Basin.
Kurzweil H. (Wien)

November

- On the formation of the colour of varicoloured clays in the Great Hungarian Plain, Upper Pliocene.
Rischak G.
- On the activity of AIPEA.
Viczián I.

December

- Clay mineralogy of clays covering the Upper Pannonian lignite deposits in the Füzesabony - Kalkapolna area, S of Matra Mts., N. Hungary.
Deák J., Goda J., Egerer F., Matyas E., Namesanszky K.

Program for the year 1983

In May 1983 a two-days meeting is planned, during which various aspects of mineralogy, geology and technology of illites will be discussed. Site of the meeting: Zamardi, Balaton Lake.

Istvan Viczián

India

The first National Conference on Clay Mineralogy was organized by the Clay Minerals Society of India on August, 10 1981 in New Delhi. The following papers were presented :

- On the cation exchange behaviour of some soils.
Miss Neeta Cheema.
- Electronic and surface properties of some soil clays from the alfisolic zone of Orissa, India.
G.C. Sahu.
- Clay mineralogy of a few laterite and associated soils of Goa, India.
G.S.R. Krishna Murti.
- Permeability behaviour of artificially cemented kaolinite.
M.R.M. Nambiar.
- Characterization of fine clay fractions from some black soils of India.
S.K. Ghosh.

The Executive Council of the Clay Minerals Society of India elected for the term 1981-1983 is as follows :

President	Prof. S.K. Mukherjee 332 Jodhour Park, Calcutta 700 068
Vice-Presidents	Dr. K.V. Raman (Hyderabad) Prof. S.C. Das (Kalyani)
Secretary & Editor	Prof. G.S.R. Krishna Murti Division of Agricultural Physics Indian Agricultural Research Institute New Delhi 110012
Treasurer	(Till October 1982) Dr. Ramendra Singh (New Delhi) For the remaining term : Dr. T.V. Rao Division of Agricultural Physics I.A.R.I., New Delhi 110012
Joint-Secretaries	Dr. S.K. Ghosh (New Delhi) Dr. B.S. Kapoor (New Delhi)
Members	Prof. T. Ramamurthy (New Delhi) Dr. P.S. Sidhu (Ludhiana) Dr. A.K. Agnihotri (Pantnagar) Dr. D.A. Shinde (Jabalpur) Dr. S.S.K. Nanda (Bhuvananeswar) Dr. S.S. Sahu (Kalyani)

Dr. S.B. Deshpande (Nagpur)
Dr. V.A.K. Sarma (Bangalore)
Prof. A. Sreedharan (Bangalore)

The Executive Council of the Society has decided to publish an official publication of the Society "Clay Research", twice in a year. The first issue of the Journal covering all aspects of research in clay science, is published in June 1982. Manuscripts of articles on original research on any aspect of clay science are invited. Detailed information can be obtained from the Editor of the Society : Prof. G.S.R. Krishna Murti, Indian Agricultural Research Institute, New Delhi 110012.

G.S.R. Krishna Murti

Israel

The annual meeting of the Israel Society for Clay Research convened on May 31, 1982, in the Geology Department, The Hebrew University of Jerusalem. Ten papers were presented in the meeting, dealing with topics of clay coloration, clay porosity, intercalation, boron adsorption, organo-clay interaction and x-ray identification of clays. Also dealt with were zeolite preparation from clays and properties of oil-shale ash. The meeting was attended by some 30 scientists, and lively discussion followed the presentations. The meeting was organized by Dr. J. Nathan.

In its annual meeting, the Society decided to apply to the AIPEA for the status of Affiliated Society.

A. Banin

Italy

After the "tour de force" related with the organization of the 7th International Clay Conference, as soon as October 1981 was initiated the sending to participants of the Proceedings volume.

In September 1982, a seminar on "Kinetic and thermodynamic aspects of weathering and clay diagenesis" was held in Milan at the ENI Institute. The guest speakers were Dr. A.B. Delmas (INRA, Versailles) and Dr. F. Lippmann (Mineralogical Institute, University of Tubingen).

Among the participants (more than 20), was Dr. J. Linares,

Vice-President of the Spanish Clay Society.

The Italian Group of AIPEA will held a meeting in March or in April 1983. On the agenda: the participation of the Italian Clay Scientists to the 5th meeting of the European Clay Groups (Prague- August 31 - September 3, 1983. The Group will also organize a joint meeting with the Spanish Clay Society at Sorrento in 1984.

F. Veniale

Japan

The 26th General Annual Meeting was held at the lecture room of the Memorial Hall of the Faculty of Medicine, Kyushu University, Fukuoka, from November 9 to 11. About 50 papers on general subjects and 2 special lectures were presented.

The special lectures were "Shirazu-one Pumice: an industrial raw material" by Y. Isayama and "Formation processes from 2:1 to 1:1 clay minerals" by K. Wada. During a special symposium on the subject "Mica Clay Minerals", 5 papers were also presented. On November 12, a field trip led the participants to the Arita Ceramic Region (with a visit to the Ceramic Laboratory of Saga Prefecture), the Pottery Museum and the Toseki Quarry. On November 8, a symposium on "Investigation methods in clay mineralogy", was also organized.

H. Minato

Jordan

On March 29th 1982, in the presence of Dr. R.C. Mackenzie, Past President of AIPEA, was founded the "Clay Minerals Group of Jordan". Dr. A.W. Abed and Dr. A.J.D. Taimah have been elected as President and Secretary respectively. The contact address of the Clay Minerals Group of Jordan is as follows : c.o. Dr. A.J.D. Taimah , University of Jordan, Amman.

The Netherlands

The Dutch 'Gespreksgroep Kleimineralen held two meetings in 1982, both at Wageningen. During the first meeting, two lectures

were given. G.H. Bolt gave an outline of various models for surfaces with variable charge, and S.J. van der Gaast demonstrated a method for suppression of background reflections in the X-ray diffraction study of clays. This method is at present operational at NIOZ, Texel.

The second meeting, in October, was held in cooperation with the Group for Mineralogy and Petrography of the Royal Geological and Mining Society of the Netherlands and focussed on the activities of the International Soil Museum (Wageningen). After a general introduction by the Director of this museum, Dr. Sombroek, Mr. Creutzberg elaborated on micromorphological study of soils, Dr. Van Reeuwijk discussed allophane in soils and Dr. Van der Plas gave a lecture on some physical and mechanical properties of disordered soil kaolinites.

The next meeting will be held on March 3, 1983. On this meeting, the eventual affiliation of the "Gespreksgroep" with AIPEA will be discussed.

P. Buurman

Scandinavia - The Nordic Clay Group

The spring meeting, June 2-4, was held in Denmark, the first day with scientific sessions in Copenhagen, whereafter followed a two days excursion to Sjaelland and Jylland.

The scientific program had the following contributions :

- Mineralogic studies of Jurassic "source-rocks" for oil and gas" Holger Lindgren (DGU).
- Heating studies of oxidation processes in an iron chlorite" Holger Lindgren (DGU), Ole Borggaard (KVL) and Sten Mørup (DTH).
- Phyllosilicates in chondrule meteorites. Poul Graff-Petersen (Museum of Geology, Copenhagen).
- Clay mineralogy of Quarternary North Sea sediments. Tor Løken (NGI)
- Tertiary ash layers, a technical drilling problem. Elen Roaldset (Norsk Hydro, Research Center, Bergen).
- Local variations in seismic patterns of finegrained marine sediments. Birger Larsen (DTH).
- North sea shale mineralogy. Andrew Hurst (Statoil, Norway).

The day ended with a visit to the Geological Survey of Denmark.

The two-day excursion under Knud Binzer (DGU) took us to localities where we could study and sample Tertiary as well as Quarternary clays in Sjaelland and Jylland. We were shown glacially formed landscapes, heath planes and many other things of interest. As in most cases our collected samples are still waiting to be studied.

The autumn meeting was held Nov. 30th at the Inst. of Soil Science, Ultuna, close to Uppsala, Sweden, with the following program.

- The sewer tunnel project in the Oslo region, clays and stability problems. Fredrik Løset (NGI).
- Overconsolidation in Weichsel sediments - possible causes. Lars Eikum (NGI).
- Clay mineral diagenesis in a subsiding geological basin. Roy Ferrel, Jr (Louisiana State University, Fulbright Researcher at the Inst. of Geology, University of Oslo).
- The effect of Mehra-Jackson treatment studied by Mössbauer technique. Tore Erikson (Geological Inst. of the University of Uppsala).
- Kaolin prospecting in Skåne, Sweden. Naz Ahmed Shaikh (Geological Survey of Sweden).

DGU = Denmark Geological Survey
NGI = Geotechnical Institute of Norway
KVL = Royal Inst. of Agriculture, Copenhagen
DTH = Royal Inst. of Technology, Denmark

The secretary Dr. Stig Ledin has left the clay science field and as new secretary Dr. Andrew Hurst, Statoil, Forus, Postboks 300, N-4001 Stavanger, Norway, was elected.

Our president is still Dr. Elen Roaldset with new address: Norsk Hydro, Research Center, P.O. Box 4313-N-5013 Nygårdstangen, Norway.

Ann Marie Brusewitz

Spain

1st Ibero-american Clay Meeting : This meeting was held at the "Palacio de Congresos y Exposiciones de la Costa del Sol"

Torremolinos (Malaga) on June 7-11, 1982. Approximately 100 participants from Ibero-america, Portugal, Spain and some european countries attended the meeting.

Forty one papers were presented at the scientific sessions concerning the following general topics :

- Crystal chemistry and crystal structure.
- Colloid Chemistry.
- Surface properties.
- Geology and Geochemistry.
- Soil Science.
- Industrial Applications.

In addition the following four general lectures were delivered :

- The Clay Minerals of Mexico.
Dr. L. de Pablo Galan, Departamento de Geologia, Universidad Nacional Autonoma de Mexico.
- Distribution of ions in the octahedral sheet of micas.
Dr. J.M. Serratosa, Grupo de Fisico-Química Mineral, CSIC, Madrid, Spain.
- Intercalation and structural defects in kaolinites.
Prof. C. de Sousa Figueiredo Gomes, Departamento de Geociencias, Universidad de Aveiro, Portugal.
- Theoretical approach to bond lengths and bond angles in silicates and related inorganic solids.
Prof. E. Gutiérrez Rios, Departamento de Química Inorganica, Facultad de Ciencias, Universidad Complutense, Madrid, Spain.

Highlights of the social programme included an organ recital in the cathedral of Malaga, a flamenco recital at the section of "Flamencologia" of the University of Malaga and a visit to the wine cellars of the Bacarles Company.

Representatives of Spain, Portugal and Ibero-america countries meet together during the conference and decided to celebrate the 2nd Ibero-american Clay Meeting in 1984. Dr. L. de Pablo-Galan offered himself to explore the possibilities to organize the second meeting in Mexico.

J.M. Serratosa

Recent Death

Prof. Mitsuoki Nakahira (1911-1982)

Professor Mitsuoki Nakahira died suddenly from heart attack on March 23, 1982, while he was visiting the National Institute for Researches in Inorganic Materials for scientific discussion.

Prof. Nakahira was born at Fukuyama, Hiroshima Prefecture in 1911, and graduated at the University of Tokyo in 1941.

His scientific career was started at the Physical and Chemical Research Institute in Tokyo, where he studied on X-ray diffraction of clay minerals, especially on stacking disorder. In 1956, he went to U.S.A. and made research work on clay mineral transformation on heating with Prof. G.W. Brindley at Pennsylvania State University. Upon return to Japan in 1959, he was appointed Lecturer at Mineralogical Institute, University of Tokyo. From 1961 to 1964, he was again at Pennsylvania State University.

In 1967, he transferred to the newly founded National Institute for Researches in Inorganic Materials, where he studied on vanadium oxides and sulphides. In 1974, he was appointed Professor at Okayama University of Science, and served there as Dean of the Faculty of Science since 1980. He was to retire from that University at the end of the month of his death.

Prof. Nakahira was very active clay mineralogist and internationally known by his important contributions, for example the paper on kaolinite - metakaolin - Al-Si spinel transformation series. On the occasion of International Clay Conference in Tokyo, 1969, he took an active part in helping the editor of Proceedings, Prof. Lisa Heller-Kallai, and in promoting active discussion after presentation of papers.

He had many friends not only in Japan but also outside it. Those who knew him personally were impressed by his enthusiasm for scientific research and his generous and friendly personality. He will be greatly missed by them.

K. Nagasawa

5th Meeting of the European Clay Groups

The 5th Meeting of European Clay Groups will be held in Prague on 31st August till 3rd September 1983 and is organized

by the Czechoslovak Group for Clay Mineralogy and Petrology under the auspices of the Faculty of Sciences of Charles University. More than 400 persons from 28 countries are interested in attending the Meeting. About 200 scientific papers are expected to be presented in oral or in poster sessions. All scientists interested in Clay research are welcome to attend.

The scientific programme of the Meeting will cover all aspects of clay research and application.

Accommodation can be booked for participants either in University hotels (220 places) or in hotels (150 places). During the 5th ECG Meeting the following social events are planned: Dinner for participants, followed by a folk show (Czechoslovak songs and dances); Concert of music by Old Czech Masters in the Carolinum building.

Excursion will take place to the Plzen and Karlovy Vary Spa area, where three deposits of clays and kaolins will be visited in a one day programme. Sightseeing in Karlovy Vary will be arranged after lunch for accompanying members. A local sightseeing trip to Prague's most outstanding monuments is also on the programme.

Deadline for abstracts in perfect English: March 31, 1983.
Deadline for final papers: May 31, 1983.

Secretaries	President
Dr. Jiri Sindelar	Prof. Dr. Jiri Konta
Dr. Karel Melka	
Department of Petrology, Charles University, Albertov 6, 12843 Prague 2, Czechoslovakia.	

Calendar of Meetings

1983

March 24 : Meeting of the French Clay Group, Paris (France) (see page 11)

March 29 : Meeting of the Clay Minerals Group. Aberystwyth (U.K.) (see page 13)

March 28-31 : Second European Union of Geosciences Meeting, Strasbourg (France) (E.U.G. Organizing Committee, Saarstrasse 23, D-6500 Mainz. F.R. Germany).

April 7-8 : Meeting of the Clay Minerals Group. Cambridge (U.K.) (see page 13).

July 4-7 : International Colloquium CNRS, Petrology of Weathering and Soils. Paris (France). (Prof. D.B. Nahon, Laboratoire de Pétrologie de la Surface. Université de Poitiers, 40 Avenue du Recteur Pineau, F-86022 Poitiers Cedex, France).

August 31- : 5th Meeting of the European Clay Groups, Prague, Czechoslovakia (see page 21).

September 3 : CMS, Annual Meeting. Buffalo, New-York (USA) (R.F. Giese or C.V. Clemency, Department of Geological Sciences, State University of New-York, 4240 Ridge Lea Road, Buffalo, NY 14226, USA).

October 2-6

New Books

International Clay Conference 1981. - edited by H. Van Olphen and F. Veniale. Elsevier, Developments in Sedimentology 35 - 1982. N.B. These Proceedings have been sent to all participants attending the 7th International Clay Conference.

Advanced Techniques for Clay Mineral Analysis - edited by J.J. Fripiat. Elsevier, Developments in Sedimentology 34 - 1981. US \$ 42.

Vitovskaya I.V. and Bugelski Yu.Yu. The nickeliferous weathering cores. Nauka Press, M., 1982.

Gavrilov Yu.O. Diagenetic transformations in the clay deposits of the middle Miocene of the eastern submontane Caucasus. Nauka Press, M., 1982.

Weathering cores of the Russian platform. Inst. of the Lithosphere. Nauka Press, M., 1982.

Bardossy Gy, 1982. Karst bauxites. Bauxite deposits on carbonate rocks. Developments in Economic Geology, Vol. 14. Elsevier, US \$ 90.75

Bardoshi D., 1981. Kartovye boksity. Izd. Mir, Moskva. In Russian.

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AIPEA accepts as members clay scientists, institutions, and companies. Members may join individually or through affiliated national scientific societies.

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Institutional membership	U.S. \$	15.0
Life membership	U.S. \$	120.0

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