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 N° 34 March 1998

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1. REMARKS FROM THE SECRETARY GENERAL

1997 was a year full of clay science related activities all over the world. AIPEA was in the centre of it with the eleventh International Clay Conference in Ottawa, Canada. You find a report of it in this newsletter. All our thanks go to the organizing team of Professor Kodama, K. Torrance and Jeanne Percival and all the others who contributed to the success of the meeting.

AIPEA is now really the representative body of clay research and clay scientists. With the Clay Minerals Society as affiliated society AIPEA reaches about 1800 members with the Newsletter. A healthy student travel fund is available. The rules for making use of it at the occasion of the 12th International Clay Conference in Adelaide are announced in this newsletter. The statutes and by-laws as they were approved in Adelaide, can be found in this newsletter too. Please read them and any suggestion for improvement will be seriously studied by the council members. It is our goal to publish the membership list in the 1999 Newsletter.

The clay community lost two eminent scientists, Professor P. Low (USA) and Professor L. Margulies (Israel). They have been remembered in editorials of journals and in the Newsletter of the European Clay Groups Association and of the Clay Minerals Society of America. Let's recall them in our minds once more and try to live up to their standards in our private lives and in our research.

Putting the Newsletter together is not easy, as the information has to come from all over the world. I thank all the clay scientists from the national or regional clay societies for their contributions and all the others who transfer information to the secretariat. With modern technology it is not too difficult to have the newsletter flourished with pictures. Do not hesitate to mail interesting pictures to the secretariat for publication. A WEB site is available, but not the manpower to keep it up to date. (Its address is: http://www.agr.kuleuven.ac.be/inorg/aipea/aipea.htm). Nevertheless I hope to put the Newsletter on the WEB site in the course of 1998.

Robert Schoonheydt.

2. IN MEMORIAM

Professor Leon Margulies 1943-1997

Leon Margulies received his first degree in chemistry from the University of Buenos Aires, Argentina, in 1967, and his M.Sc.(1970) in organic chemistry and Ph.D. (1975) in physical chemistry from the Weizmann Institute, Rehovot, Israel. After a postdoctoral fellowship at the Max-Planck Institute for Biophysical Chemistry in Göttingen he accepted a position of Scientist and later Senior Scientist at the Weizmann Institute. Since 1980, he became Senior Lecturer and Associate Professor at the Hebrew University of Jerusalem, Faculty of Agriculture, Seagram Centre for Soil and Water Sciences. He became Chairman of the Department in 1995. In the years 1987-1989, he was President of the Israel Society for Clay Research, and since 1993 he was a Council Member of the International Association for the Study of Clays (AIPEA).

Leon devoted his expertise to the use of several advanced procedures of physical chemistry to basic and applied research on clays. His pioneering work included the development of clay-based formulations which protect pesticides from photodegradation by coadsorbing them to the clay with certain organic dyes. Photostabilization of the pesticides was achieved by the mechanism of energy transfer. Another aspect of the research was the reduction of the volatilization of herbicides to the atmosphere. A recent successful application was the preparation of a clay-based formulation, which significantly reduces leaching and migration of hydrophobic herbicides by adsorbing them on a clay preadsorbed with an organic cation that interacts strongly with the herbicides molecules. Such a formulation of alachlor (recently patented) has been shown by a bioassay and field experiments to be very effective in reducing leaching while enhancing the biological activity. The implementation of Leon's ideas for clay-based formulations would significantly reduce the amounts of pesticides required and help to protect the environment.

Leon's knowledge and aptitude were greatly appreciated by his colleagues and students who benefited from his lectures. He was a person of high integrity who created a pleasant and friendly atmosphere in his contacts with colleagues, students and visitors. He believed in international cooperation and in active pursuit of peace. His collaborators included scientists from Spain, France, Germany, Egypt, Jordan and Gaza. He also guided the Ph.D. work of a student from Gaza. He initiated and organized a conference Israel-Spain and just lately a workshop Israel-France, which focused on basic research and application of clays.

He is survived by his wife, Julia, and his children, Sharon, David and Maya. His sudden death is a great loss to his loving family, colleagues and students.

S.Nir (Rehovot, Israel)
3. NEWS FROM THE COUNCIL

1. The 1997-2001 AIPEA council is composed as follows:

president: E. Roaldset, Norway
past president: H. Murray, USA
vice president: R. Kühnel, The Netherlands
treasurer: P.M. Huang, Canada
secretary-general: R. Schoonheydt, Belgium
second term councillors: T. Eggleton, Australia
first term councillor: J. Dixon, USA
A. Banin, Israel
H. Hayashi, Japan
teaching committee chair: D. Schulze, USA
nomenclature committee chair: S. Guggenheim, USA
two representatives of the organizing committee of the 12th ICC:
E. Dominguez, Argentina
F. Cravero, Argentina

Adresses of the council members

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2. Committees

Nomination Committee
E. Roaldset, president
J. Wilson, UK
A. Yamagishi, Japan
H. Murray, USA
M. Formoso, Brasil

Bradley Award Committee
E. Roaldset, president
J. Churchman, Australia
H. Kodama, Canada
C. Johnston, USA
A. Banin, Israel
3. Student Travel Fund

The following rules are adopted for support of students:
1. The student submits an extract and his/her curriculum vitae
2. This submission is supported in writing by his/her supervisor
3. Both the student and the supervisor are members of AIPEA
4. The student is under 35 years of age.
5. The financial support can only be used to attend an International Clay Conference and its associated excursions, field trips and workshops.
6. Student can only apply for one International Conference
7. The amount of money can be up to $500,- per student.

Address for submission: AIPEA secretariat

The selection committee will consist of H. Murray, J. Percival and G. Lagaly.

For the 12th ICC the deadlines are as follows:
• submission of abstract + CV + letter of support: October 1, 2000
• notice of decisions: January 1, 2001.

4. AWARDS

Bradley award

The following four candidates have submitted a paper:
• Dr. S. DICK: “Anion exchange reactions of iron complex-loaded montmorillonite - a new principle of anion exchange of clay minerals”
• Dr. A. GALARNEAU: “Acidic properties of a porous clay heterostructure”
• Dr. M. OGAWA: “Photofunctions of clay-organic intercalation compounds”
• Dr. D. POP: “REE fractionation trends in some Transylvanian glauconites”

Dr. A. Galarneau was proposed as the winner.

Aipea medal awards

AIPEA medals were bestowed upon Professor Victor DRITS (Russia) and prof. Herve CHAMLEY (France) during a short ceremony of the closing session of the 11th International Clay Conference in Ottawa, Canada. It was a pity that prof. V. Drits could not attend due to illness.

Prof. H. Chamley, born in Lièpvre, Haut-Rhin, France, is professor of Sedimentology at the Université de Lille, France. His main research activities are situated in the area of:
• Clay sedimentology and diagenesis in recent and ancient marine environments;
• Reconstruction of past conditions: sources, climate, marine and eolian currents, volcanic and hydrothermal control, tectonics, obliteration of the paleoenvironmental messages by diagenetic constraints (temperature, pressure, kinetics, permeability, duration).
• Combination of X-ray diffraction, inorganic geochemistry, isotope geochemistry, electron microscopy and microprobe investigations.
• Application to present oceans and paleoceans (thyme range: Europe, North Africa, Asia).

His present responsibilities include
• Head of a CNRS and a university research team on clay mineralogy, geochemistry and sedimentology
• Scientific director for Earth Science at the French Ministry
• Active member of various national and international committees and programmes (ODP, Global Change, MAST)

He is the co-author of 141 papers in international journals and 10 books and various chapters in books.

Professor Victor DRITS was born in Chita, Russia in 1932 and took his Ph.D. at the Institute of Crystallography in Moscow. He joined the Geological Institute in 1962 as head of the X-ray diffraction group. In 1970 he became head of the laboratory of physical methods for the study of rock-forming minerals. From 1988 to 1992 he was vice-director of the Geological Institute. From 1992 to the present time he rejoined his group of physical methods at the Geo-
logical Institute. Prof. Drits is professor honoris causa of the Université d'Orléans, honorary member of the Mineralogical Society of Great Britain and Ireland and distinguished member of the Clay Minerals Society. He has published over 250 scientific papers and numerous books on X-ray diffraction, electron diffraction, spectroscopy, manganese oxides and clay minerals.

5. FINANCIAL SITUATION

AIPEA is financially healthy. The total assets of AIPEA (as of May 8, 1997) are as follows: (1) US $31,659.79 and (2) CAN $1,287.40.

Two recommendations are approved by council:
1. To set up a VISA credit card system to facilitate AIPEA members to pay their membership dues
2. To transfer US $5,000 from the Travel Fund to a new Term Deposit.

6. STATUTES AND BY-LAWS

STATUTES

Approved by General Assembly of AIPEA on 12th September 1981
Adapted by General Assembly of AIPEA on 20th July 1993.

I. NAME AND AIM

1. The name of the organization shall be ASSOCIATION INTERNATIONALE POUR L'ETUDE DES ARGILES (AIPEA). AIPEA shall remain affiliated to the International Union of Geological Sciences.
2. The aim of AIPEA shall be to promote international co-operation in clay research and technology. To this end its activities shall include:
   a) the organization of meetings - such as International Clay Conferences - of field excursions and of visits to centres of clay research and technology;
   b) the issue of publications on clay research and technology and of a periodical Newsletter to inform members of activities concerned with clay research;
   c) co-operation with other organizations having an interest in clay research and technology.

II. MEMBERSHIP

3. a) AIPEA may accept as members individuals (individual members, who may also be life members), institutions and companies (corporate members), and national or regional societies (Affiliated Societies) with an interest in clay research or technology.
   b) Application for individual or corporate membership shall be made in writing to the Secretary General or Treasurer and be accompanied by the appropriate membership fee. Applications from Societies wishing to become Affiliated shall be made to the Secretary General in writing giving relevant information on field of interest, number of members, etc.; if approved by Council (which shall not be required to give any reason for non-approval) the Society shall become Affiliated on payment of the appropriate membership fee.
   c) Membership will be for the period for which the membership fee is paid. If it is one year's dues the member will be in good standing for one year. If the membership fee is not paid, the membership may be cancelled unless there are extenuating circumstances which will be determined by the Council.
   d) Council may be resolution communicated to a member in writing and stating concisely the grounds on which it proposes to act upon a member to resign from AIPEA. Council shall give the member affected proper facilities for stating the member's case either orally or in writing as Council shall determine. If the member does not resign within two months of being called upon to do so, Council may by resolution terminate the member's membership. Council may at any time, without stating any reason, refuse to accept an annual fee to renew a member's subscription.
   e) A member shall be deemed to be bound by these Statutes and the By-Laws made hereunder.

III. ADMINISTRATION

4. A Council appointed by and answerable to the General Assembly shall be responsible for the activities and general administration of AIPEA in accordance with the Statutes and By-Laws of AIPEA and the decisions of the General Assembly.

5. The General Assembly shall consist of (a) individual members, (b) one representative of each corporate member and (c) one representative of each Affiliated Society present at a Business Meeting. An individual member may appoint another member as his proxy. Each proxy and representative shall be appointed by the member in writing and his appointment shall be valid only if the document appointing him is lodged with the Secretary General before the commencement of the meetings.

6. An Ordinary Business Meeting shall be held at each International Clay Conference. A Special Business Meeting may also be called by Council or by the Secretary General within 90 days of receipt of a requisition in writing signed by or on behalf of not less than one quarter of the mem-
bers stating the purpose for which such a meeting is desired and setting out any resolution which it is desired to propose thereat: such a Special Business Meeting can only be held during a Congress or Session arranged under the auspices of the International Union of Geological Sciences.

7. Notice of any Business Meeting must be given to AIPEA members at least 3 months in advance. The function of Ordinary Business Meetings shall be:
   a) to receive reports from Officers and Council;
   b) to receive reports from Chairmen of Committees and others entrusted with special tasks;
   c) to consider and vote on alterations and amendments, if any, to the Statutes and By-Laws;
   d) to elect Officers and Council;
   e) to receive and adopt an audited abstract of the accounts of AIPEA for the period 1st January prior to the previous Ordinary Business Meeting to the 31st December prior to the current meeting;
   f) to agree on the location of the next International Clay Conference;
   g) to deal with any special matter Council desires to bring before members and to receive and consider suggestions from members for consideration by Council.

At a Special Business Meeting no business shall be transacted other than that specified in the notice, and no amendment to any resolution proposed at the meeting shall be allowed.

8. At a Business Meeting each member present in person, by proxy or by representative shall have one vote and decisions shall be by simple majority of votes cast, except for the items covered in Articles 34 and 36. Non-members of AIPEA may attend a Business Meeting of the General Assembly and contribute to discussion but they shall have no voting rights.

9. At Business Meetings of the General Assembly the President, or in his absence the Vice-President, or in his absence the President’s nominee, and the Secretary General, or acting Secretary General, shall be the Chairman and Secretary, respectively.

10. Council shall consist of the President, the Vice-President, the Secretary General, the Treasurer (hereinafter termed the Officers), the immediate Past-President, six Ordinary Councillors, the Editor-in-Chief, two representatives of the Organizing Committee and, if not already on Council, the Chairmen of the Standing Committees set up under Article 16. No two Ordinary Councillors may be from the same country and all Officers and councillors must be individual members of AIPEA at their election and during their period of service.

11. Should the office of President fall vacant between Conferences, the Vice-President shall become acting President; should the offices of Secretary General or Treasurer fall vacant, an acting Secretary General or Treasurer shall be appointed by Council. Should a vacancy occur among Ordinary Councillors, Council may co-opt an individual member of AIPEA from the country or region of the Councillor whose appointment, resignation or death caused the vacancy for the remainder of his period of service. Any person filling a vacancy as aforesaid shall be eligible for election as if he had not filled it.

12. The period of service of Council shall be from the end of the International Clay Conference at which it was elected to the end of the subsequent International Clay Conference. The President and Vice-President shall serve only one such term as President and Vice-President and Ordinary Councillors may be elected as Ordinary Councillors for only one additional term. The Secretary General and Treasurer may be elected for further terms if willing to serve.

13. At least one year ahead of an International Clay Conference, Council shall appoint a Nominating Committee consisting of the President, two Ordinary Councillors and two individual members of AIPEA not then on Council. This committee shall present to Council prior to the Ordinary Business Meeting of the General Assembly a nomination for each of the offices of President, Vice-President, Secretary General and Treasurer and for Ordinary Councillors corresponding to the number of vacancies occurring. These nominations, as approved or adjusted by Council, shall be presented to the Ordinary Business Meeting of the General Assembly: additional nominations may be made from the floor of the General Assembly, supported by a seconder and by statement from the nominee that he is willing to serve if elected.

14. Council, apart from the Editor-in-Chief, representatives of the Organizing Committee for the next International Clay Conference and the Chairmen of Standing Committees set up under Article 16, shall be elected by the General Assembly from the total list of nominations. Should the nominations made by Council not be added to, the succeeding Council may be elected en bloc, but should additional nominations be made a secret ballot must be held for each position contested. Election shall be by simple majority of the votes cast. The editor-in-Chief shall be appointed by Council and two representatives of the Organizing Committee for the
next International Clay Conference shall be nominated by the Organizing Committee appointed by Council.

15. Each member of Council has a single vote and the President, or acting President, a casting vote: decisions are taken by simple majority. Council has the power to suspend By-Laws temporarily, subject to ratification by the General Assembly. Council also has the power to conduct its business by correspondence.

16. Council may of its own volition or at the request of the General Assembly appoint committees to consider and report on any matter. Unless otherwise decided by Council, each committee shall elect its own Chairman and have power to co-opt members. Council may alter the membership of any committee at any time. Such committees may be Standing Committees or Ad Hoc committees, depending on the remit.

17. Council shall decide on the location of the legal domicile of AIPEA.

18. All service as Officers and as members of Council or of Committee shall be entirely honorary.

IV. CONTRACTS AND REPRESENTATION

19. All contracts and agreements made by AIPEA shall be signed by the President or acting President and the Secretary General or acting Secretary General.

20. The President or acting President shall be the official representative of AIPEA but is empowered to appoint a proxy should he be unable so to act.

V. FINANCE

21. Membership fees shall be as set down in the By-Laws. These shall be reviewed periodically by Council who may make recommendations for their alteration to the General Assembly.

22. The income of AIPEA, such as membership fees and contributions from other sources, shall be held in custody by the Treasurer, who shall operate bank accounts in the name of AIPEA held in a country or countries not subject to restrictions on international transfer of funds and who shall ensure that reserve funds are invested in the most advantageous manner in accordance with written professional advice. Withdrawals from such accounts shall be signed by either the Treasurer or the President.

23. Should sums be set aside in special account for a specific purpose by Council or the General Assembly the signatures required for withdrawals shall be decided by Council.

24. All funds must be held in such a way that they are always readily available for the activities of AIPEA.

25. AIPEA is under no obligation to pay expenses that are incurred without the sanction of the Officers. Before incurring any expenditure other than normal running expenses - such as postages, meeting accommodation, etc. Committees appointed under Article 16 must obtain the sanction of the Officers, who may require a current financial statement from the Treasurer before reaching a decision. The amount spent by each Committee shall be itemized in the accounts.

26. The accounts shall be audited in the country of the Treasurer by auditors appointed by Council. Accounts shall be made up as at 31st December each year and a properly audited statement presented to Council by 1st May of the succeeding year.

VI. INTERNATIONAL CLAY CONFERENCES

27. AIPEA shall promote International Clay Conferences at approximately 4-yearly intervals. Each such Conference shall be in a country different from those in which the preceding two were held and, when possible, should be held in conjunction with a Congress or Session arranged under the auspices of the International Union of Geological Sciences.

28. Firm offers to host an International Clay Conference must be made to the Secretary General in writing, with evidence of the resources available to the prospective hosts, at least four weeks before commencement of the preceding International Clay Conference. Council shall report on the offers received to the General Assembly at the preceding International Clay Conference and shall recommend the offer which it considers most suitable.

29. The selected hosts for the next International Clay Conference shall appoint an Organizing Committee to be responsible for all arrangements in connection with the Conference, including publication of the Proceedings. The Officers of AIPEA shall be advisory members of the Organizing Committee but may not be full members of this Committee.

30. The Organizing Committee shall be assisted in all matters of publicity by Council.
31. Arrangements for timely publication of the Proceedings shall be made by the Organizing Committee in collaboration with the Editor-in-Chief and any additional editorial board that Council may appoint.

32. For activities in the host country or region the Organizing Committee shall have an account separate from those of AIPEA, into which shall be paid all moneys received for that International Clay Conference and from which shall be paid all debts incurred. The account shall be in the custody of the Organizing Committee, or of a Treasurer of the Conference appointed by the Organizing Committee, and after each Conference a properly audited statement shall be submitted to Council.

33. The Organizing Committee will ensure that their income will cover all conference expenses and will set the registration and field trip fees accordingly. The registration fee for each registrant will include $10 which will be paid to AIPEA. AIPEA will not be responsible for any shortfall from the International Conference. Any surplus funds, after payment of all just and lawful expenses and repayment of any loans will be divided equally between the host society and AIPEA; If a host society is not responsible for organizing a international conference, then the surplus will be paid in full to the Treasurer of AIPEA.

This $10 fee per registrant will go directly to the Student Travel Fund of AIPEA and can only be used to support bonafide students attending the International Clay Conference.

VII. AMENDMENTS TO STATUTES AND DISSOLUTION

34. Amendments to the Statutes shall be adopted if approved by at least two-thirds of the votes cast at a Business Meeting of the General Assembly unless a postal ballot is demanded by 15 members present in person, by proxy or by representative from at least 5 different countries.

35. Such amendments may be proposed:
   a) by Council;
   b) by at least 6 members of AIPEA in writing to the Secretary General at least 3 calendar months before the date of the Business Meeting. Amendments proposed under (b), together with any comments of Council, shall be available in writing to all members of AIPEA before the commencement of the Business Meeting.

36. Any proposal for dissolution of AIPEA must bear the signatures of at least 6 members, be received by the Secretary General at least 9 calendar months before an International Clay Conference and be notified to all members of AIPEA, along with comments of Council and a ballot paper, at least 6 weeks prior to the commencement of an International Clay Conference.

37. Proposals subject to postal ballot under Articles 34 or 36 shall come into force if accepted by two-thirds of all members voting by ballot.

38. In the event of dissolution of ASSOCIATION INTERNATIONALE POUR L'ETUDE DES ARGLLES, its property shall pass to the International Union of Geological Sciences.

BY-LAWS

1. Membership fees will be set by action of the council in US dollars for the following categories:
   1) individual member
   2) institutional or company member
   3) student member

   Individuals 65 years of age and older who have been individual members for 12 years or more shall automatically become Life Members on notification to the Treasurer. A Life Member must verify his membership every 4 years coinciding with the year of the International Clay Conference. Affiliated societies are members of AIPEA but the society does not pay any dues.

2. The Council has made provision for a periodic membership of four year coinciding with the International Clay Conferences which are scheduled every four years. The Council urges all members to pay their membership fees for a four year period so that membership will be continuous from one International Clay Conference to the next. This will make the administrative functions of the Treasurer and the Organizing Committee much easier.

3. Each individual and corporate member of AIPEA as defined in Article 3 of the Statutes shall receive one copy of each publication of AIPEA excepting the Conference Proceedings - i.e. Newsletters, periodical Membership Lists etc. - as well as one copy of each announcement and circular. Liaison Officers shall receive five copies of each such publication, announcement or circular.

4. Communication with individual countries or regions shall be through Liaison Officers, through other appropriate societies or, where neither exists, through honorary Correspondents willing to accept responsibility
for dissemination of information on the activities of AIPEA throughout their country or region. A list of such appropriate Societies and Correspondents shall be kept by the Secretary General.

5. Registers of members of each grade shall be kept by the Secretary General and the Treasurer who shall jointly be responsible for ensuring that each member receives appropriate publications, announcements and circulars. The Secretary General shall arrange for distribution to Liaison Officers of regular reports on activities of Standing Committees and other relevant information.

6. An AIPEA Travel Fund, established by Council under Article 23 of the Statutes shall be funded by such sums from the general reserves of AIPEA as Council shall from time to time decide. The following rules shall apply:
   a) The Custodians of the Fund shall be the President, Vice-President, Secretary General, Treasurer and immediate Past-President of AIPEA.
   b) The sum disbursed, which shall never exceed the accumulated interest on the original capital or the capital as subsequently modified by Council, may be used only for the payment of reasonable travel and hotel accommodation expenses incurred by (i) the President or his designate in officially representing AIPEA or (ii) the President or acting President, the Secretary General and/or the Treasurer in attending Council meetings or Business Meetings of the General Assembly when Council deem it necessary they appear in person.
   c) Payment shall be made in respect of travel expenses only to the extent that they are the most economical possible having regard to time and in respect of hotel accommodation expenses only to the extent that they are for the minimum period necessary.
   d) No payment shall be made in respect of any expenses unless all the custodians have approved the relevant travel and hotel accommodation arrangements in advance and have satisfied themselves that the expenses to be paid out of the Fund cannot be funded from any other official source.
   e) The person for whom expenses paid for out of the fund are incurred shall render an account thereof to the custodians within 30 days of the completion of his task.
   f) The fund shall be deposited in a banking account in the name of AIPEA Travel Fund and no sum shall be drawn from this account within the signatures of both the Treasurer and the Secretary General.
   g) Council may at any time require all or part of the capital in the fund to be repaid to the general funds of AIPEA.

7. REPORT OF THE 11th I.C.C.

11th INTERNATIONAL CLAY CONFERENCE
34th Annual Meeting of the CLAY MINERAL SOCIETY
Ottawa, Canada, June 15-21, 1997

The 11th ICC was organized by volunteers (day scientists) from government, university and the private sector. The meeting was sponsored by Agriculture and Agri-Food Canada, Geological Survey of Canada (Natural Resources Canada), the National Research Council and Carleton University. Additional support was provided by the Clay Mineral Society (CMS), Mineralogical Association of Canada and the Canadian Society of Soil Science. The conference was also held in conjunction with Commission VII (Soil Mineralogy) of the International Society of Soil Science.

The conference was attended by 500 delegates and 62 guests from about 40 countries. These delegates presented a total of 444 papers and posters throughout the week. The combining of the meetings of the two societies influenced the structure of the Technical Program. This influence derived largely from the number of awards (and accompanying lectures) that are normal parts of the individual meetings. These awards and their recipients were:

- Bradley Lecture: Dr. Anne Galameau
- AIPEA Medals: Prof. V. Drits, Prof. H. Chamley
- Pioneer in Clay Science: Dr. Kodi Wada
- Brindley Lecture: Dr. Paul Nadeau
- Jackson Mid-Career Clay Scientist Lecture: Dr. Jerry Bigham
- Distinguished Member Award: Dr. Udo Schwertmann

The conference week was structured to have professional sessions on Monday, Tuesday, Thursday and Friday. Wednesday morning was reserved for Business Meetings of AIPEA and CMS, and for demonstrations by commercial exhibitors. No activities were scheduled for Wednesday afternoon.

The program was structured to use the CMS lectures as plenary session presentations at the beginning of each day of paper presentations, with the exception of Monday, the opening day, when the Opening Ceremonies occupied the early time slot. The AIPEA Bradley Lecture was in its traditional time slot immediately before the Closing Ceremonies on Saturday, the final day of the conference. The plenary sessions were followed by 5 or 6 concurrent symposia or general sessions (oral presentations). Posters were presented, changing daily, at the end of the day during a dedicated time slot (16.00-18.00) along with refreshments.
A conscious attempt was made to have the professional content of each of the four presentation days approximately equal. Symposia were scheduled throughout the meeting rather than clustered in the early part; approximately the same number of oral presentations were scheduled each day with more posters scheduled later in the week. Attempts were made to have an eclectic series of sessions in specific times slots in order to avoid thematic conflicts. From these sessions about 120 manuscripts were received for publication in the Proceedings.

The conference was open to the public by means of a public lecture by Dr. Ken Torrance (program and vice-chair) entitled: “Fascinating Mud: Landslides in the Eastern Canadian Marine Clays” AIP EA Gold Medal honours were bestowed upon Drs. Hervé Chamley and Victor Drits. As Dr. Drits was unable to attend due to a sudden illness, Dr Alain Plaçon accepted on his behalf. During the meeting two new presidents took on their duties. For AIP EA, Dr. Haydn Murray passed the mantle to Dr. Elen Roaldset and for CMS, Dr. Stephen Guggenheim passed the mantle to Dr. Joseph Stucki. During the Closing Ceremony, the AIP EA flag was passed onto the organizing committee for the 12th ICC: Dr. Eduardo Dominguez and Ms. Maria Fernanda Cravero of Bahia Blanca, Argentina.

Two pre-conference workshops were also organized as part of the meeting. A two-day workshop on Mössbauer Spectroscopy featuring MOSMOD software was convened by Dr. Denis Rancourt in conjunction with the Mössbauer Symposium. The second workshop, entitled “Synchrotron X-Ray Methods In Clay Science” allowed about 50 participants to learn about this specialized field. This workshop was co-organized by Drs. Darrell Schultz and Joseph Stucki on behalf of CMS. Both workshops came together on the Saturday before the meeting for a friendly wine and cheese party at the Faculty Club at Carleton University.

Seven pre- and post-conference field excursions were offered to the delegates and their guests. The field excursions were all generated by suggestions of the organizing committee and many depended on the direct participation of committee members and their associates. The field excursions were as follows:

Pre-Conference
- F1: Clays and other minerals in the Laurentian Highlands, southwestern Québec (C. De Kimpe and N. Miles).
- F2: Six classic mineral localities of Bancroft, Ontario (C.R. Fouts).
- F3: Mineralogy, stratigraphy, and origin of Georgia Kaolins (S.M. Pickering, V.J. Hurst and I.M. Elzea).

Post-Conference
- F5: Canadian Rocky Mountains-geology and mineral deposits (G.D. Mosop, D.G. Cook and D. Scafe).
- F6: Regularly interstratified clay minerals in southeastern Ontario (N. Miles and C. De Kimpe).

- F7: Landslides and soil development in the Champlain Sea sediments of the Ottawa area (J.K. Torrance and C. Wang).

A limited number of field trip guidebooks are still available for purchase. If interested contact the conference secretary-general, Dr. Jeanne B. Percival at Geological Survey of Canada, 601 Booth st., Ottawa, Ontario, Canada, KIA OE8.

Porter Hall was the focus of the Commercial Exhibits and poster presentations. The Exhibits were open to all delegates and guests during the Welcoming Ceremony on Sunday evening. The delegates were able to view the latest in PC-based EDS systems, XRD and SEM instruments, imaging microscopes, ultramicrotome systems for sample preparation, unique geochemical analyses designed for clays, and a host of publications from some of the sponsoring societies and government departments. The dedicated poster time also allowed maximum viewing of posters and exhibits simultaneously.

There was an active guest program that included a series of excursions to attractions in and around the nation’s capital. Our guests were taken on a guided tour of Ottawa with a stop at Rideau Hall, Governor General’s Residence. Other excursions took guests to the 1000 Islands (St. Lawrence River), Upper Canada Village and the McKenzie King (former Prime Minister) Estate in Gatineau Park.

The conference program was rounded out by a series of social events for delegates and guests. Besides the Welcoming Reception on Sunday, everyone attended the Banquet at the Weston Hotel (downtown). For some it was their first view of the downtown area and the leisurely trip down the Rideau Canal proved to be one of the highlights. The BBQ at the Experimental Farm (Agriculture Canada) on the Wednesday (day off) was unfortunately accompanied by the only rain of the week. It did not dampen everyone’s spirits and a good time was had by all who attended. The week-long venue ended with a lunch following the Closing Ceremonies where the remaining delegates and guests were able to bid their farewells to old and new friends and discuss the future meeting in Argentina.

The website is still up (http://www.cisti.nrc.ca/ICC97/) and will eventually provide information on the Proceedings and photographs of the Conference. Currently, abstracts can still be looked at for those of you who were not able to join us in Ottawa.

The registration fees included a $10US fee for all full-paid registrants in support of the student fund. We are pleased to report that a grand total of $5642 CDN was submitted to the AIP EA treasurer to assist in funding students at the next ICC.

The Organizing Committee feel that the conference was highly successful both
technically and socially. We were pleased to meet so many of our colleagues from around the world and look forward to seeing them again at the next ICC. The Organizing Committee, 11th ICC
January 1998

8. NATIONAL CLAY GROUPS

CHINA

The Second National Symposium on Processing and Utilization of Nonmetallic Minerals was held in Hengyang city, Hunan province, on 23-25 September 1997. About 230 people were present. More than 100 papers were presented on utilization of kaolinite, illite, palygorskite, sepiolite etc. and more attention was paid on the utilization of hard kaolinitic claystone layers in coal seams of Permo-Carboniferous formation in North China. Nearly at the same time, on September 24-28, 1997, in Suzhou city, Jiangsu province, a Symposium on paper coating material was held. Many papers focused on the delamination, micronization and utilization of kaolin minerals.

Zhi Zheng

CLAY MINERALS GROUP (United Kingdom)

Committee
The following committee was elected at the 1997 AGM for 1998:
Chairman: Dr. Andrew Parker, University of Reading
Secretary: Dr. Ian Wilson, ECC International Ltd, St. Austell
Treasurer: Dr. John Adams, English China Clays plc, Central R&D, St. Austell
Principal Editor (Clay Min.): Dr. Derek Bain, Macaulay, Aberdeen
Associate Editor: Dr. Chris Breen, Sheffield Hallam University

Members
Dr. Robert Brown, Dept. of Chemical and Biological Sciences, Univ. of Huddersfield
Dr. Chris Jeans, Dept. of Earth Sciences, University of Cambridge
Dr. Stephen Hillier, Macaulay Land Use Research Institute, Aberdeen
Dr. Dick Merriman, Mineralogy and Petrology Group, British Geological Survey
Dr. David Doff, Department of Geology, Trinity College, Dublin
Dr. Nick Elton, English China Clays plc, Central R&D, St. Austell

1997 Meetings
Two meetings were held in 1997 at Aberdeen and Keyworth. The Aberdeen meeting was organised by Derek Bain and constituted the Jubilee celebrations of the Clay Minerals Group founded in 1947. This was an excellent meeting attended by over 90 people with a wide selection of papers, an official reception followed by a dinner (bagpipes and Scottish dancing included) and a trip to the Lochnagar Distillery near Balmoral Castle. Invited speakers were Dr. Jeff Wilson, Dr. J. Srodon and Professor Haydn Murray. Thanks are extended to the Macaulay Institute for hosting such a wonderful meeting. The Autumn Meeting was held at BGS, Keyworth and organised by Dick Merriman and Simon Kemp on Clay Mineral evolution, basin maturity and mudrock properties. Invited speakers were Dr. Pollastro (US Geological Survey) and Dr. N. Clauer (Strasbourg, France). A dinner was held at a nearby golf club.

1998 Meetings
Spring Meeting - will be held at Cambridge University from the 26-27th March 1998 on the theme Mineral diagenesis and reservoir quality - the way forward. The meeting, convened by Dr. Chris Jeans is the sixth in a series on petroleum related themes and will be held in the Department of Engineering, Trumpington Street, Cambridge. The scientific sponsors are the Mineralogical Society, the Petroleum Exploration Society of Great Britain, the London Petrophysical Society and the Geological Society. The conference will be concerned with siliciclastic reservoirs, their mineral diagenesis, burial and porefluid histories and the prediction of reservoir quality. Publication of papers from this meeting will take the form of a thematic issue of Clay Minerals where size will depend on funding available. For further details contact Chris Jeans, Department of Earth Sciences, University of Cambridge, Downing Street, Cambridge, CB2 3EQ, UK. Telephone: 01223 333 400; Fax: 01223 333 450.

Autumn Meeting - This will be held at the University of Bath from the 7-8th September, 1998 on the theme Physical and chemical characterisation of mineral suspensions and is a joint meeting between Clay Minerals and Applied Mineralogy Groups. The aim of the meeting is to bring together workers in academia and industry to review the state-of-the-art in the characterisation of high-solid suspensions. Emphasis will be given to clays and accessory minerals. Day 1 will concentrate on the chemistry of chemical characterisation of mineral surfaces and interactions between particulates in suspension (e.g. surface chemistry, interactions with dispersants/flocculants, surface analytical methods like XPS, atomic force, etc). Day 2 will concentrate on physical properties and physical characterisation of diaphragm, acoustics, ultrasonics, etc. On both days it is hoped to blend fundamental studies with applications to industry and mineral processing practice.
For further information and offer of papers please contact the Conference Organisers. Dr. Nick Elton and Dr. David Skuse, English China Clays plc, Central Research, Par Moor Laboratories, St. Austell, Cornwall, PL24 2SQ, UK. Nick Elton : Telephone: 01726 818191, Fax: 01726 818030. e-mail: nje.r&d@ecici.co.uk and David Skuse: Telephone: 01726 818170, Fax: 01726 818030 and e-mail: drs.r&d@ecici.co.uk.

Accommodation will be available at the University or at numerous local hotels and there will be a conference dinner on the night of the 7th. Further details and a formal call for papers will be circulated in due course.

For further information on the activities of the Clay Minerals Group please contact the Secretary Dr. Ian Wilson, ECC International Ltd, John Keay House, St. Austell, Cornwall. PL25 4DJ, UK. Telephone: 01726 623253. Fax: 01726 623019 and e-mail: ian@ecici.co.uk.

Ian Wilson

CLAY MINERALS SOCIETY (North America)

The Clay Minerals Society’s 34th annual meeting was held in conjunction with the 11th International Clay Conference in Ottawa, Canada on 15-21 June 1997. The meeting was hosted by Carleton University. The George W. Brindley Lecture was presented by Dr. Paul H. Nadeau, Statoil, Norway, and entitled “The fundamental particle model: a clay mineral paradigm”. Dr. Jerry M. Bigham, Ohio State University, received the Jackson Mid-Career Clay Science Award and presented a lecture entitled “Clays for our future: a view from the midstream”. Dr. Koji Wada, former Professor and President of Kyushu University, presented the Pioneer in Clay Science Lecture on “Fascinating minerals in volcanic ash soils”. Dr. Udo Schwertmann, Technische Universität München, was awarded the Distinguished Member Award.

Because the meeting was jointly held with the ICC, the program was greatly expanded and had a true international flavor. Symposia included: Mössbauer Spectroscopy, Isotope Geochemistry, Clay Barriers, TEM/XRD, Teaching Clay Mineralogy, Hydrothermal Clays, Clays in Industry, NMR, and Microbial Geochemistry of Clays. The General Sessions included: Separation and Purification, Crystal Chemistry and Structure, Geology and Sedimentology, Agriculture and Environment, Oxide Minerals, Investigative Techniques, Colloidal Surface Properties, Clays and Health, Soil Mechanics, and Genesis and Synthesis. Best student paper/poster awards at the Ottawa meeting went to Lynda Williams, Arizona State University, for “Potential for in-situ measurements of oxygen-isotope ratios in clay minerals using secondary ion mass spectroscopy”; L. Houssain Hassouta, Université des Sciences et Technologie de Lille, France, for “Clay diagenesis in a sandstone reservoir (Middle Jurassic)

of the North Sea”; and Christine Shriner and Jean Hemzacke, Indiana University, for “Reconstruction of archeological clay sources using applied clay mineralogy techniques”. Runner ups included Wouter Ijdo, Michigan State University, and Isao Yasufu, Kanazawa University, Japan.

Field trips covered a broad area of North America, including Ontario and Quebec, Georgia, and the Canadian Rocky Mountains. Pre-meeting workshops included Mössbauer Spectroscopy and Synchrotron X-ray Methods in Clay Science. No volumes are planned for either workshop.

The children of S.W. “Bull” Bailey, Linda and David, have endowed a new CMS award in his honor. The award will replace the Distinguished Member Award and will be called the Bailey Award, in honor of both Bull and his wife, Marilyn. The award distinguishes excellence in clay research, much like its predecessor award. The Bailey Award is open to persons of all ages, nationalities, and careers, regardless if the person is a Society member, although nominations must come from CMS members.

All CMS members now can receive Mineralogical Society of America publications at member prices, which is about 25% off regular prices. The recently published Volume 8, Organic Pollutants in the Environment, B.L. Sawhney, Ed., is now available from the Society Office. The price is $15 plus postage ($3) from the Society Office. In addition, special publication No. 1, Kaolins Genesis and Utilization, is available at $20 plus postage ($3).

The next annual meeting will be held at the Cleveland Marriott Downtown Hotel at Key Center in Cleveland, Ohio, from 6-11 June 1998. The workshop is entitled: “Molecular Modeling of Clays”. Special symposia include: Molecular modeling of clays and clay surfaces, Clays in the petroleum and extractive industries, Smectite-rich soils, New developments in the geochronology of clays, oxides and zeolites, and Remote sensing of clays. The field trips are “Bedrock and coastal geology of Ohio’s north coast” and a “Family field excursion to Kelly’s Island glacial grooves”. Dr. Samuel M. Savin is the General Chair. Inquiries may be addressed to Samuel M. Savin, Dept. of Geological Sciences, Case Western Reserve University, Cleveland, Ohio 44106, USA, tel: 216-368-4413, Fax: 216-368-3842. e-mail: sms7@po.cwm.edu.

S. Guggenheim

THE CLAY SCIENCE SOCIETY OF JAPAN

1. Annual Meeting

The 41st annual meeting of the Clay Science Society of Japan was held at Fukui Prefectural University, Fukui from 17-19 September, 1997. A total of 93
papers (45 oral and 48 poster) were presented. The program also included two guest lectures and a symposium entitled “Material synthesis learning from Nature’s engineering”.

The guest lectures were:
- Fossilized dinosaur in Tedori formations by Y. Azuma, Natural Museum of Fukui.
- Development in bioelectrochemistry by M. Senda, Fukui Prefectural University.

The symposium presentations were:
- Conditions of formation of natural zeolite and related minerals by M. Uehara, Tokyo University.
- Synthesis and properties of high-silica zeolite by K. Itabashi, Toso Co. Ltd.
- Synthesis and industrial application of 1:1 tri-subgroup minerals by T. Sato, Mizusawa Chemical Co. Ltd.
- Synthesis and industrial application of clay minerals by T. Furusawa, Cop Chemical Co. Ltd.

At the meeting the society presented two awards:
- Clay Science Society of Japan Award to K. Tomita, Kagoshima University, for his distinguished research on synthesis of mixed layer minerals.
- Clay Technology Award to Mizusawa Chemical Co. Ltd. for achievements on smectite-based material synthesis and application.

2. Publication

S.-I. Wada

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**CZECH AND SLOVAK NATIONAL GROUP**

The Czech group organized two seminars in 1997. Both of them took place in Prague. The spring meeting was held in the Geology building at the Faculty of Science of Charles University on June 11 and was organized in honour of Prof. J. Konta at the occasion of his 75th birthday and in honour of Associate Professors J. Neuzil and Dr. J. Sindelar, founding members of the Society, who were awarded the honorary membership. The following lectures were presented:
- Konta J.: Arguments in favour of argilology

The second seminar was held on December 10 at the Institute of Rock Structure and Mechanics of the Czech Academy of Sciences. Two lectures were given:
- Kovanda E.: Hydrotalcite-like compounds/anionic clays and possibilities of their use.

The Slovak group arranged the following lectures in Bratislava during the year 1997:
In February:
- V. Sucha, Bratislava: Acidification of the environment affected by the mining activity in Slovakia

In March:
- P. Komadel, Bratislava: Chemical treatment of bentonitic fine fractions.
- U. Kelm, Chile: Diagenesis of Magelan Basin, Chile.

In May:
- A. Mazumdar, Delhi, India: Precambrian-Cambrian boundary: problems in correlation, geochemical changes and phosphogenesis, studies from Lesser Himalaya, India

In September:
- S. Petit, University of Poitiers, France: Quantification of the charge of smectites

In October:
- D. Janeba, Praha: Crystal structure of intercalated clays

In December:
- Z. Klapyta, Krakow, Poland: Acid treatment of organoclays

The dissertations of two members of the Society were submitted:
- J. Kračcová: preparation and properties of pillared montmorillonites
- M. Janek: The autotransformation of H-smectites in water dispersion

The Slovak group of the Society shared the organization of the Conference on Environmental Aspects of Weathering Processes held in the beginning of December in Brno, Czech Republic.

In 1999, September 4-10, on behalf of the European Clay Groups Association the Polish and Slovakian Groups organize the EUROCLAY conference in Krakow, Poland followed by a workshop in Banská Štiavnica, Slovakia. Preparatory activities have begun.
Meetings
15th Conference on clay mineralogy and petrology in Brno, Czech Republic
On behalf of the Czech and Slovak National Clay Group, its Czech part, the Faculty of Science of the Masaryk University at Brno and the Czech Geological Survey, Brno branch, organize the 15th Conference on Clay Mineralogy and Petrology.

Melka K., Kraus I.

DTTG (GERMAN-, AUSTRIAN-, SWISS CLAY GROUP ASSOCIATION)

The DTTG (German-, Austrian-, Swiss Clay Group Association) consists presently of 160 individual and 5 corporate members. As the explanation in brackets makes clear, the group represents the German speaking clay scientific society. We are proud to have and are eager to gain fellows from the clay producing and clay using industry. Once a year our national clay conference takes place either in Germany, in Austria or in Switzerland.

In 1997 we held our meeting at the University of Trier, Germany. It was focused on „Quantitative Clay Mineral Analysis“. The conference was attended by 85 participants. Advanced XRD- and Rietveld-Analysis, quantified water adsorption for swelling clay determination, semiquantitative methods for waste deposit sealing clays, comparison of quantitative ring analyses results, etc. were treated in oral and poster presentations. The poster presentation was of exceptionally high scientific and illustrative standard. 19 posters were presented. Traditionally a one day field trip concluded the conference. General geological features of Luxembourg special clay sedimentological aspects and clay applications in sanitary landfill sealing systems have been treated.

During our 1997 meeting we could honour the scientific work of young clay scientists by our „Jasmund award“: Dr. Stefan Dick from Munich and Dr. Rolf Nüesch from Zürich.

In 1998 (3rd-5th September) we will meet again for our national conference in Greifswald, Germany. The general theme is devoted to „Clays in Geotechnical and Construction Practice“. In addition poster and oral presentations are invited for analytical aspects and further applications. Three field trips will be offered: open pit clay mines in Mecklenburg-Vorpommern, the „chalk-coast“ of the Island of Rügen and thermal waters of Neubrandenburg and Greifswald.

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K. Czurda
HUNGARY

Papers on clay mineralogy were presented in the sessions and meetings of the Hungarian Geological Society and the Hungarian Soil Science Society, held normally in Budapest. The following lectures were read:

March 10, 1997,
- Dódony, I.: New tendencies in the study of minerals by analytical electron microscopy (mainly illite and smectite type minerals).

April 16,
- Pórizs, I., Tóth, M., Máté, Z.: Contributions to the clay mineral and zeolite formation in Miocene tufts of the Mecsek Mts.

October 13,
- Kovács-Pálffy, P., Korpás, L., Földvári, M., Baráth, K.: Paleosols in Middle Triassic sequences of the Balaton Highland.

The European Mineralogical Union held its first School and Symposium in Budape$$ on 14-18 December, 1997. Title of the school was “Modular Aspects of Minerals”. The school included topics dealing with clay minerals and layer silicates presented by invited speakers.

The main clay-related themes were: OD theory (Durovic, S.), lizardite polytypes (Dódony, I.), mica polytypes (Nespolo, M., Takeda, H., Ferraris, G.), polytype and polysome generation (Baronnet, A.), mixed-layer minerals (Drits, V. A.) and modular analysis of crystal structures (Zvyagin, B. B.). On the symposium 35 additional papers were presented as posters.

The lectures of the school were published in the first volume of a new series called “EMU Notes in Mineralogy”, entitled “Modular Aspects of Minerals” (edited by Merlino, S.), pp. 450, Eötvös University Press, Budapest, 1997. The volume is available from Eötvös University Press, Budapest, Puskin u. 11-13, H-1088, Hungary. Price: USD 16, including postage, for individual members of EMU member societies and for libraries ordering the series and USD 24, including postage, for non-members and for libraries ordering this volume only.

István Viczián
e-mail: viczian@mafi-2.mafi.hu

THE CLAY MINERALS SOCIETY OF INDIA

Organised a national symposium on clays in relation to environment and industries. Invited papers presented in the symposium were

1. Industrial use of clays and clay minerals
2. Clays in pesticide formulation
3. Utilisation of clayey soils in hazardous waste management
4. Role of clay minerals in ceramic industry
5. Application of clays in petrochemicals industry

Among the voluntary papers some important papers were
1. Synthesis of Zeolite from siliceous earth for use in detergent
2. Upgradation of kaolinite for zeolite 4A
3. Adsorption of acid dye on clay based adsorbent used in textile industry
4. Environment friendly application of clays and its secondary resources
5. Migration of Li in octahedral layer of mica and its effect on octahedral charge content
6. Application of clay soils as liner materials for secured landfill
7. Characterisation of particle size and crystal strain soil clay through deconvolution and curvefitting of XRD profile

These papers are published in Clay Research, the official bulletin of the Clay Minerals Society of India. Future correspondence may be made to the following address:

Secretary, The Clay Minerals Society of India
Division of Soil Science and Agricultural Chemistry
Indian Agricultural Research Institute
New Delhi - 110012, India
Phone: +91-11-5781494, 5781921
e-mail: ssac@saci.ernet.in

CLAY STUDIES GROUP OF KOREA

Clay activities in our country in 1997:
The joint meeting of the Clay Studies Group of Korea and the Mineralogical Society of Korea was held on May 24, 1997 at Seoul National University in Seoul, Korea. The papers delivered at the meeting were:

Kim, G.-Y. and Kim, S. J.: TEM study of the relationship between chlorite and talc from the talc deposits of the Yugu area, Korea.

Jeong, G. Y.: Clay minerals formed by weathering of the Palgongsan granite: Weathering of plagioclase and biotite.


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TURKISH NATIONAL COMMITTEE ON CLAY SCIENCES

1. Biennial Meeting
VIIIth National Clay Symposium (Clay '97) was held on September 24-27, 1997, at Kutahya, the city famous for china production during historical and modern times. The organization was carried out with the cooperation of the National Committee and the Dumlupinar University. 70 oral and 10 poster presentations were given on the following major topics:

- Clay mineralogy and geology
- Physicochemical properties
- Industrial applications
- Geotechnical properties
- Waste disposal
- Soil clays
- Clay purification and processing in ceramic industry

During the Symposium Best Student Presentation Awards were granted to Miss Meltem Sayarslan and Mr. A. Hikmet Gucum for their oral presentation of Ph.D and M.Sc. theses, respectively. In the last day of the Symposium visits to the ceramic factories of Kutahya and Gural Porcelain Companies were organized and attracted the interest of a large number of participants.

2. Executive Committee for the term 1997-1999
During the Symposium, the General Assembly of the Turkish National Committee elected the Executive Committee which will be in charge of the activities for the coming two years period (1998-1999). New officers include:

President: Asuman G. Turkmenoglu (Middle East Technical University)
Vice President: Cemil Cangir (Trakya University)
Secretary General: S.Ali Sayin (The general Directorate of Mineral Research and Exploration)
Treasurer: Husnu Aksoy (Hacettepe University)
Member: Huseyin Yalcin (Cumhuriyet University)

3. Publications
- Proceedings Volume of Clay '97 was edited by Dr. Iskender Isik of the Dumlupinar University (DU). The Volume is in Turkish with English abstracts. It is distributed by DU.
- Workshop Volume I entitled “The Application of Remote Sensing for the Investigation of Earth’s Surface and Resources” was published in Turkish. It is distributed by the National Committee.
- The newsletter “BULTEK” was published biannually and sent to the National Committee members.

4. IX. National Clay Symposium (Clay’99)
Clay ‘99 will be held jointly with the Istanbul University in Istanbul on September 1999. More information will be given in the next AIPEA Newsletter.

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GRUPPO ITALIANO AIPEA

Twenty five Italian clay scientists attended the 11th International Clay Conference held in Ottawa (Canada) on 15-21 June, 1997. A total of 28 papers (9 oral and 19 poster) were presented by Italian scientists dealing with a great variety of clay problems. Drs Brigatti, Fiore and Gianfreda chaired three different sessions. Dr. Giovanni Mongelli, Dipartimento di Strutture, Geotecnica, Geologia Applicata all’Ingegneria, University of Potenza and Dr. Fabio Tateo, Istituto di Ricerca sulle Argille of the National Research Council in Tito (Potenza), were the recipients (ex-aequo) of the 1997 Luigi Dell’Anna award, sponsored by the Italian AIPEA Group to promote the participation of young Italian clay researchers to attend International and European Clay Conferences of AIPEA. The winners attended the Conference in Ottawa, presenting the following communications:

- “Mineralogy and Geochemistry of Clays as Indicators of Provenance and Sedimentation Environments” (by Dr. Giovanni Mongelli)
- “The <Amedeus Segment>, an Example of Orbital Control on the Pelagic
Sedimentation (Albian, Appennino Umbro-Marchigiano)” (by Dr. Fabio Tateo).

The 4th School for young researchers was held in Rimini on “Clays and Clay Minerals: Characterization of their Properties for Industrial Applications”, under the leadership of prof. N. Morandi (Department of Earth and Environmental Sciences, University of Bologna), Dr. B. Fabbri and Dr. M. Dondi (Research Institute for Ceramic Technology, Faenza). Ten lectures were delivered by Drs N. Morandi, G. Lombardi, B. Fabbri, M. Dondi, A. Roatta, G. Gasperotto, G. Novelli, A. Vaccari, F. Veniale, A. Tateo, dealing, inter alia, with the structure and properties of clays minerals, thermal analysis in clay mineralogy, evaluation of the potential use of clays in the ceramic industry, technological characterization of clays for ceramics, clay minerals and cement production, industrial uses of bentonites, catalytic applications of clays, medical and pharmaceutical uses of clay minerals, geological and genetic aspects of clay deposits in the northern Apennines.

The Proceedings volume is available from Dr. M. Dondi. Istituto di Ricerche Tecniche per la Ceramica, via Granarolo, 64 - 48018 Faenza (Ravenna).

The fifth training course will be held in Urbino from 8 to 11 September 1998 on “Origin, Significance and Role of fine-grained Sediments in the Marine Environment” (Chairman prof L. Tomadin, Istituto di Geodinamica e Sedimentologia, University of Urbino, PS).

Dr. M. J. Wilson, Macaulay Land Use Research Institute, Aberdeen (Scotland), delivered a set of lectures at the Dipartimento di Scienze Chimico-Agrarie, University of Naples “Federico II” during April-June, 1997 on “Soil Mineralogy in Relation to Soil Formation, Agriculture and the Environment”. The Dipartimento di Scienze Chimico Agrarie has published the book “Soil Components with Variable Charge with Special Reference to Iron Oxides” by Dr. G.S.R. Krishnamurti. A free copy of the book is available from Dr. A. Violante, Dpt Scienze Chimico-Agrarie, University of Naples, 80055 (NA) Italy; (e-mail: violante@unina.it).

In 1997 Prof. F. Veniale (Department of Earth Sciences, University of Pavia), past-president (1971-1975) and Liaison Officer of the Italian Group of AIPEA, retired from academic tasks after an illustrious and long (40 years) career. Prof. Veniale, still very active, is continuing to give his valuable contribution to all the activities of the Italian Gruppo Italiano AIPEA. Furthermore, he is realizing a “Catalogue of Healing Clays” used in the Italian Thermal Centers for “peloid” muds. The Proceedings volume (150 pages) of the Meeting “Healing Clays” held in Salice Terme (PV), October 1996, which includes 20 papers in various languages is available from Prof. Veniale.

The following committee of the Gruppo Italiano was recently elected for the next 4 years:
President: Prof. L. Tomadin
Vice-president: Dr. S. Fiore
Secretary: Dr. S. Tateo
Treasurer: Dr. A. Violante
Liaison Officer: Dr. A. Violante

Antonio VIOLANTE
e-mail: violante@unina.it

RUSSIA

Topics of clays and clay minerals were displayed in the programs of two meetings: 1) International mineralogical seminar: Structure and evolution of the mineral world, Komi Republic, Syktyvkar, June 10-13, 1997.
2) International Conference on Spectroscopy, X-ray and crystal chemistry of minerals, Kazan, Tatar Republic, September 30 - October 2, 1997. They have considered structural transformation of the minerals in natural and laboratory conditions, new formations of mineral species in peculiar environments, developments in techniques of spectroscopy and X-ray diffraction of increased sensibility and precision etc.

Boris Zvyagin

SERBIA

Clay activity was carried out in several groups and societies: Serbian Geological Society, Serbian Chemical Society - Section for Ceramics, Serbian Crystallographical Society. In 1997 a conference was held devoted to the 40th anniversary of electron microscopy in Serbia with a few reports concerning clay minerals. At the 11th International Clay Conference in Ottawa Z. Maksimovic presented an unknown hydrous nickel-containing clay-like mineral in karstic environment in Serbia and Greece. Clay scientists from Serbia had some reports dealing with ceramic clay deposits, kaolin and bentonite deposits, clay minerals in karstic environments in Serbia at conferences in Serbia, Romania and Macedonia.

Prof. Dr. Vidojko Jovic
Faculty of Mining and Geology, Dusina 711000 Belgrade Yugoslavia
e-mail: ljika@helix.chem.bg.ac.yu
9. MEETINGS

1. The Clay Minerals Society 35th Annual Meeting
Cleveland, Ohio, June 6-11, 1998,
Cleveland Marriott Downtown at Key Center

Symposia:
- Molecular modelling of clays and clay surfaces;
- Clays in the petroleum and extractive industries;
- Smectite-rich soils;
- New developments in the Geochronology of clays, oxides and zeolites;
- Remote sensing of clays

Field Trip: Cleveland and Coastal Geology of Ohio’s North Coast

Workshop (Saturday, June 6): Molecular Modeling of Clays
General Chair: Dr. Samuel M. Savin, Dept. of Geological Sciences
Case Western Reserve University, Cleveland, OH 44106 USA
Phone: 1-216-368-4413; fax: 1-216-368-3842; e-mail: sms7@po.cwru.edu

For more information on publicity, contact:
Patricia Jo Eberl, Manager, The Clay Minerals Society,
P.O. Box 4416, Boulder, CO 80306, USA.
Tel.: 1-303-444-6405; fax: 1-303-444-2260; email: peberl@clays.org

2. 4th International Symposium on Environmental Geotechnology and Global Sustainable Development
Boston, Massachusetts, USA, August 9-12, 1998

"Cross- and multi-disciplinary approaches to addressing global geo-environmental problems"

Symposium Chair:
Prof. Hilary I. Inyang, DuPont Young Professor and Director
Center for Environmental Engineering, Science and Technology (CEEST)
University of Massachusetts, Lowell, USA

Information:
Dr. V. Ogunro (Symposium organizing Secretary)
CEEST, Room E-114
University of Massachusetts Lowell
One University Avenue
Lowell, MA 01854, USA
Tel: 1-978-934-3185; fax: 1-978-934-4014; e-mail: vincent_ogunro@uml.edu

3. 15th Conference on Clay Mineralogy and Petrology
Brno, Czech Republic, September 6-10, 1998.

On behalf of the Czech and Slovak National Clay Group, its Czech part, the Faculty of Science of the Masaryk University at Brno and the Czech Geological Survey, Brno branch, organize the 15th Conference on Clay Mineralogy and Petrology.

The conference will be held on the campus of Masaryk University in Brno, September 6-10, 1998 (previously announced date has been changed) under the auspices of the UNESCO/IGUS International Geological Correlation Program. The scientific program will cover all topics of theoretical and applied clay science. Principal themes of the meeting will cover:
- Clay mineralogy and petrology
- Applied research of clay materials
- Clay minerals and the environment
- Clays in soil research
- Zeolites and their use
- The role of clay minerals in weathering (IGCP#405 Workshop).

Simultaneously, the Annual Meeting of all participants and scientists interested in the I.G.C. Project 405 “Anthropogenic Impact on Weathering processes” will be held.

The program of the conference will be complemented with multidimensional excursions to:
- Neogene clay deposits
- Recent vineyards
- Industrial enterprises utilizing clays.

The official conference language is English.

Contact address:
Dr. Petr Sulovsky, Clay conference chairman
Faculty of Science, Masaryk University
Kotlarska 2, 611 37 Brno, CZECH Republic
Phone: +420-5-4129231; Fax: +420-5-41211214

4. 8th Congress of the International Association of Engineering Geology and the Environment
Vancouver, British Columbia, Canada, 21-25 September 1998

The Congress will be held at the Hyatt Regency Hotel
The theme, “A Global View from the Pacific Rim”, will bring together about 750 experts, practitioners, and students of Engineering Geology and related
The official languages of the Congress are English and French. Simultaneous translations will be provided for all sessions.

Scientific sessions:
- New Developments in Site Investigations
- Engineering Geology and Natural Hazards
- Engineering Geology and the Environment
- Construction Materials
- Case Histories and New Developments in Surface Workings
- Case Histories and New Developments in Underground Excavations
- Coastal and Offshore Engineering

For further information please contact:
Ms. Kim Meidal, Secretariat 8th Congress IAEG
c/o BC Hydro
6911 Southpoint Drive, Burnaby, British Columbia,
Canada V3N 4X8
Tel: +604-528-2421; fax: +604-528-2558; e-mail:
kim.meidal@bchydro.bc.ca
website: http://www.bchydro.bc.ca/bchydro/IAEG/IAEG98.html

10. BOOKS

1. Clays controlling the Environment
(Proceedings of the 10th International Clay Conference)
Editors: G.J. Churchman, R.W. Fitzpatrick and R.A. Eggleton

2. Aggregate Resources. A global perspective
Editor: Peter T. Bobrowsky
A.A. Balkema Publishers, Postbus 1675, NL-3000 BR Rotterdam, Netherlands

11. MEMBERSHIP INFORMATION

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

Please fill in the attached form for joining AIPEA and send it along with your dues payment to the Treasurer.

The annual membership fees are as follow: (in US dollars)

<table>
<thead>
<tr>
<th>Category</th>
<th>1 year</th>
<th>4 years</th>
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</thead>
<tbody>
<tr>
<td>Individual member</td>
<td>7.50</td>
<td>30.0</td>
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<tr>
<td>Institution/Company</td>
<td>25.00</td>
<td>100.0</td>
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<tr>
<td>Student member</td>
<td>3.75</td>
<td>15.0</td>
</tr>
<tr>
<td>Affiliated societies</td>
<td>50% reduction per member. All members are then automatically AIPEA members.</td>
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</tbody>
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Your cooperation in observing the following suggestions in paying your membership fees will be appreciated:

1. AIPEA membership dues can be paid by using a VISA card system. Please state your VISA card number and the expiration date along with authorization for Dr. P.M. Huang, AIPEA Treasurer, to charge your AIPEA membership dues to your VISA card.

2. Fees can also be paid by:
   a) bank money order, payable in US dollars or
   b) international postal money order, payable in US dollars

3. Pay membership fees for four-year periods

4. Make check or money order payable to AIPEA and mail to:
Dr. P.M. Huang
The Saskatchewan Institute of Pedology
John Mitchell Building
Saskatoon, Saskatchewan,
CANADA S7N OW0
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Date effective: ______________________

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Dr. P.M. Huang
The Saskatchewan Institute of Pedology
John Mitchell Building
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Saskatoon, Saskatchewan,
CANADA S7N OWO