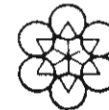


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ASSOCIATION INTERNATIONALE POUR L'ETUDE DES ARGILES
INTERNATIONAL ASSOCIATION FOR THE STUDY OF CLAYS
INTERNATIONALE VEREINIGUNG ZUM STUDIUM DER TONE
МЕЖДУНАРОДНАЯ АССОЦИАЦИЯ ПО ИЗУЧЕНИЮ ГЛИН

NEWSLETTER N°37

FEBRUARY 2001

Editor: Prof.R.Schoonheydt, Secretary-general, Department of Interphase Chemistry, K.U.Leuven
Kasteelpark Arenberg 23, B-3001, Heverlee, Belgium
Telephone: 32-16-321592, fax: 32-16-321998
e-mail: robert.schoonheydt@agr.kuleuven.ac.be
<http://www.agr.kuleuven.ac.be.intorg/aiepa/aiepa.htm>

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7. Meetings
Symposium on Geology and Environment. Amman, Jordan, April 2-4, 2001.
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The third millenium and the 21st century have definitively started. The science of clays and clay minerals has boomed tremendously in the 20th century and clay scientists have organized themselves. We have now AIPEA (Association Internationale pour l'Etude des Argiles) or International Association for the Study of Clays, the Clay Minerals Society of North America, the European Clay Group Association (ECGA) and about 40 national or regional clay groups from all over the world. Most clay scientists are members of their regional or national clay group and of at least one of the coordinating groups, mentioned above. Keeping track of this membership and informing the membership with newsletters and other means is a tremendous task for secretariats, which are usually occupied by volunteers. Much of the work which has to be done is similar. Linking these secretariats electronically and exchange of information between the secretariats is a first step towards a more efficient secretarial work. The clay scientists will benefit from it.

There are regions in the world where AIPEA is not well represented. These are countries where the group of clay scientists is very small and is not organized. Special initiatives should be taken to reinforce these groups. Thus, the international clay conference in Bahia Blanca, Argentina, is the ideal occasion to organize a South American clay group association. Similarly, South Africa could act as a nucleus to generate clay activities in other African countries. One can think of other initiatives. Clay mineral particles are nanoparticles and – as the scientific world goes nano these days - clay mineral scientists have a lot to say about nano. Let's do it. Have a nice 2001.

Robert Schoonheydt
Secretary-general

2. OBITUARY

It will be with sorrow that you learn that Dr. Toshio Sudo, Professor emeritus of Tokyo University of Education, passed away of acute myocardial infarction on April 12th 2000, at 07:07 p.m. at the age of 88 years. Prof. Sudo made great contributions in the field of clay sciences, and is the founding father of the Clay Science Society of Japan. The funeral was held in accordance with Buddhist rites on April 15th at Tensho-ji Temple in Tsunashima, Yokohama city. Many clay scientists, his students and his relatives attended his funeral service.

Hisato Hayashi
Professor emeritus of Akita University

3.1. THE CONFERENCE "A CLAY ODYSSEY"

Time has past fast since we met in that memorable 11th ICC held in Ottawa, Canada. Now we are facing the 12th ICC with the goal to fulfil the expectations of the delegates. Until now, about 300 abstracts from 42 different countries have been received, and, although the deadline was December 1, more abstracts are expected. A wide variety of countries will be represented, people from China, Japan, New Zealand, Australia, most of Western and Eastern Europe, Egypt, Turkey, USA, Canada, and Latin America have sent their contribution. The amount of papers from Latin American countries, mainly Brazil, Argentina and some from Venezuela, Perú, Chile and Cuba is very high. This is a great opportunity for overseas people to learn about clays in Latin America, and for Latin American scientists to contact overseas professionals.

The conference, that will be held on July 22-28, 2001 in Bahía Blanca, Argentina, comprises General Sessions and Symposia. General Sessions include themes such as Clays in Geology, Clay Minerals and the Environment, Soil Mineralogy, Crystal Chemistry, Structure and Synthesis, Clays in Industry and Methods. The Symposia are referred to Teaching Clay Mineralogy, Clay Barriers and Waste Management, Clays in Hydrothermal Deposits, Clays in Ceramics, Clays in Petroleum exploration and production and Clay Resources in the Mercosur. The 3rd International Symposium on Activated Clays is jointly organized with the Conference. Pre-, Intra- and Post-Congress field excursions are arranged covering almost all the types of clay deposits and soils located in a variety of landscapes.

All the information about the Conference and its structure is available on the website: www.12icc.criba.edu.ar, where the second circular as well as the registration and hotel accommodation forms, etc, can be downloaded. For any enquiries the Secretary General, Dr. Fernanda Cravero, can be contacted at: 12icc@criba.edu.ar

Dr. Fernanda Cravero
Secretary-General. 12ICC
Departamento de Geología
Universidad Nacional del Sur
San Juan 670
8000 Bahia Blanca
Ph. 54-291-4595101 ext. 3041
Fax. 54-291-4595148
e-mail: 12icc@criba.edu.ar
website: www.12icc.criba.edu.ar

3.2 COUNCIL MEETING AND GENERAL ASSEMBLY

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
A. Banin, Israel
H. Hayashi, Japan
first term councillor: J. Dixon, USA
J. Percival, Canada
G. Lagaly, Germany
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

Addresses of the council members

Prof. Elen ROALDSET, President AIPEA
Norwegian Institute of Science and Technology
Department of Geology and Mineral Resources Engineering
Høgskoleringen 6, N-7054 Trondheim, Norway
tel: +47-75 59 50 00 or +47-75 59 48 29
fax: +47-75 59 48 14
email: elen.roaldset@geo.ntnu.no

Prof. Haydn H. MURRAY, past-president AIPEA
Department of Geological Sciences
Indiana University
Bloomington, Indiana 47405-1403, USA,
tel: +1-812-855-5582
fax: +1-812-855-7899
email: murrayh@indiana.edu

Prof. R. KÜHNEL, vice-president AIPEA
International Institute for Aerospace Survey and Earth Sciences (ITC)
Kanaalweg 3, 2628 EB Delft
The Netherlands
tel: +31-152-748847, private : +31-152-567947
email: KUHNEL@ITC.NL
fax: +31-152-623961

Prof. Pam M. HUANG, treasurer AIPEA
Department of Soil Science
University of Saskatchewan,
51 Campus Drive, Saskatoon, SK S7N 5A8, Canada
tel: +1-306-966-6838
fax: +1-306-966-6881

Robert A. SCHOONHEYDT, Secretary-general
Department of Interphase Chemistry
Katholieke Universiteit Leuven
Kardinaal Mercierlaan 92, B-3001 Heverlee (Leuven) Belgium.
tel: +32-16-321592

fax: +32-16-321998
email: robert.schoonheydt@agr.kuleuven.ac.be

Tony EGGLETON
The Australian National University
Geological Department
G.P.O. Box 4
Canberra ACT 2601, Australia
tel: +61-62-495111
fax: +61-62-489062

Prof. Amos BANIN
Department of Soil and Water Sciences
The Hebrew University
POB 12
Rehovot 76100, Israel
tel: +972-8-9489288
fax: +972-8-9475181
email: banin@agri.huji.ac.il

Hisato HAYASHI
Mineral Industry Museum Mining College
Akita University
28-2 Oksawa, Tegata
Akita City 010, Japan
tel: +81-188-89-2794
fax: +81-188-89-2465
email: nisitanj@ipc.akita-u.ac.jp

Prof. Gerhard LAGALY
Christian-Albrechts-Universität
Institut für Anorganische Chemie
D-24098 Kiel, Germany
tel: +49-431-880-3261
fax: +49-431-880-1608
email: h.mittag@email.uni.kiel.de

Prof. Joe B. DIXON
Soil and Crop Sciences Department
Texas A & M University
College Station, Texas 77843-2474, USA
tel: +1-409-845-8323
fax: +1-409-845-0456.
email: j-dixon@tamu.edu

Jeanne B. PERCIVAL
Geological Survey of Canada
601 Booth Street, Ottawa
Ontario K1A 0E8, Canada

tel: +1-613-992-4496
fax: +1-613-943-1286
email: percival@gsc.nrcan.gc.ca

Prof. Darryll G. SCHULZE
Agronomy Department
Purdue University
11580 Lilly Hall
West Lafayette IN 47907-1150, USA
tel: +1-705-494-8062
fax: +1-765-496-2926
email: schulzedept.agry.purdue.edu

Steven GUGGENHEIM
University of Illinois at Chicago
Department of Geological Sciences
845 West Taylor Street, M/C 186
Chicago Circle, Chicago Illinois 60607-7059, U.S.A.
tel: +1-312-996-3263
fax: +1-312-413-2279
email: xtaluic.edu

Dr. Eduardo A. DOMINGUEZ
Departamento de Geología
Universidad Nacional del Sur
San Juan 670
8000 Bahía Blanca, Argentina
tel: +54-291-4595101
fax: +54-291-4595148
email: edomincriba.edu.ar

Dr. Fernanda CRAVERO
Departamento de Geología
Universidad Nacional del Sur
San Juan 670
8000 Bahía Blanca, Argentina
tel: +54-291-4595147 ext 3040
fax: +54-291-4595148
email: ghraverocriba.edu.ar

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

AIPEA Medals Committee

E. Roaldset, president
R. Kühnel, vice-president
H. Murray, past-president
E. Galan, Tolsa representative
V. Drits, Russia
H. Chamley, France
H. Minato, Japan

Teaching Committee: chair D. Schulze

Nomenclature Committee: chair S. Guggenheim

The general assembly and the council meetings to be held at the occasion of the 12th ICC have to deal with the following problems

1. Renewal of the council.

The nomination committee is actively searching for a president, vice-president, treasurer and 3 council members. AIPEA members can always express their interest in writing to the president, E. Roaldset.

2. Selection of the site of the 13th ICC in 2005

The following ICC's were held during the last 10 years:

- 1989: Strasbourg, France
- 1993: Adelaide, Australia
- 1997: Ottawa, Canada
- 2001 : Bahía Blanca, Argentina

Sites in Asia and Europe seem to be preferred, if we want to have a good geographical spread. Expression of interest can be given in writing to the vice-president, R. Kühnel or to the secretary-general.

4. REPORT OF THE NOMENCLATURE COMMITTEE

The Committee continues to work on developing guidelines for the use of terms relating to atom nonperiodicity in crystalline and noncrystalline materials. We expect that a report will be forthcoming in the next year on these topics.

5. FIRST LATIN-AMERICAN CLAY CONFERENCE

The 1st Latin-American clay conference was organized by the Portugal Clay Association (PCA) and took place on Madeira archipelago (Portugal) from the 17th to the 22th of September 2000. The scientific program included three full days of oral presentations and posters (Sept. 18, 19, 20) in the Madeira Technopolo Center in Funchal and one field trip (Sept. 21) on Porto Santo island.

Technical sessions offered the opportunity of fruitful exchanges and lively discussions. The field trip brought the participants to wonderful wild sites displaying exceptional alteration features of basalts (organ pipes), paleodune cliffs and bentonite from the argillization of pyroclasts. The opening session was introduced by Pr. Celso Gomez, President of the PCA. Radko Kuhnel (Netherlands) and Françoise Elsass (France) addressed messages of encouragement from AIPEA and ECGA respectively for the initiative and long life of Latin-American clay conferences.

Faiza Bergaya (France), Secretary of the ECGA, presented a retrospective on clay science and use over one century. Clay can be described as a nanostructured porous material with a confined inter-lamellar space which offers unlimited fields of investigations. But what is really a clay for each clay scientist and clay user? And why not consider hydrotalcite-type clayey material and layered double hydroxides also as clays?

Scientists of twenty five countries and from the five continents joined the conference. Spain, Israel, France and Italy were well represented besides Portugal.

Awards were offered to the three best posters of young scientists:

A. Mas, P. Dudoignon & P. Patrier - Precise clay mineral identification in a subaerial basaltic flow from the Mururoa Atoll, French Polynesia: a probable postmagmatic origin.

E. Ferraz, C. Gomes, J. Marques, J. Coroado & F. Rocha - Distinct kaolin grades, identified on their composition and ceramic properties, in the Alvares sedimentary kaolin deposit (Portugal): implications on exploitation and application.

H. Chamin, L. Moo, J. Fernandes, H. Delgado, F. Rocha, P. Fonseca, C. Gomes, M. Sousa and A. Ribeiro - Clay mineralogy, organic metamorphism and palinology of black shales from Albergaria - Velha region (NW of Portugal): geodynamic implications. The selection committee emphasized the high standard of most posters.

October 2000

Dr Françoise Elsass

Representative of GFA at the ECGA.

6. NATIONAL AND REGIONAL CLAY GROUPS

AUSTRALIA

The 17th Biennial Conference of the Australian Clay Minerals Society ACMS2000, held in Adelaide from 9-14 April, was an ambitious undertaking. It included the traditional conference, with two days of oral papers and also posters, plus a full day field trip. In addition, it also included a two-day post-conference excursion, a first-ever pre-conference Techniques Workshop, and, as a part of the conference programme, the 2nd International Symposium on Activated Clays. All in all, it was a real Clay Festival, held, appropriately, in Australia's Festival State of South Australia.

The Conference, including all its components, was very successful. The main conference attracted 40 delegates, including 3 who came directly from South America (two from Venezuela, and one from Argentina), two directly from New Zealand, and one (a Keynote Speaker), directly from the USA. Besides that, the composition of the delegates displayed Australia's multicultural diversity with most having been born elsewhere (a show of hand was taken to provide empirical proof for this Presidential hypothesis). The Workshop attracted 20 delegates, as did the post-conference excursion to the Yorke Peninsula (South Australia's little Italy – look at the map).

The South American delegates provided 3 of the 9 papers in the International Symposium, which followed the 1st International Symposium on Activated Clays, involving South American and Australian scientists and held in Argentina in 1998.



Photo: Delegates at the ACMS2000 conference visiting an old copper mine in South Australia during the post-conference field excursion

Dr. Doug Hunter, from the University of Georgia was a Keynote Speaker at both the Techniques Workshop and the conference. Dr Tony Eggleton, from the Australian National University gave another Keynote address in the form of the Brindley Invited Lecture he had presented to the Clay Minerals Society in 1999. Topics covered at the conference, held at the Waite Campus of Adelaide University and CSIRO Land and Water, included clay geology, spectroscopy, colloidal behaviour, soil clays, industrial applications, environmental applications, clay modification, clay-organic interactions, catalysis, and others aspects of clay science. The Techniques Workshop covered X-ray diffraction, electron microscopy and surface analysis, X-ray spectroscopies, infrared spectroscopy and thermal analyses and also introduced delegates to the sophisticated surface analysis laboratories at the Ian Wark Institute of the University of South Australia, who hosted the Workshop. The mid-conference excursion in the Adelaide Hills introduced delegates to the occurrence, genesis and mining of clays, the use of clays for delivering herbicides to grape vines, contamination issues, land degradation, acid sulphate soils and the formation of novel minerals in wet, salty and acidic environments. On the post-conference excursion, participants were introduced to a controversial landfill issue, to a number of quarries and mines, including an underground copper mine, acid sulphate soils (coastal, this time), and to tillage trials. No one could complain that the conference did not provide variety, and we haven't even mentioned the many social aspects! In this context, it was notable that Tony Eggleton was presented with a Life Membership of the Society at the Conference Dinner, which was held, naturally, in a winery.

The scope and success of the conference was very largely due to the efforts of all members of the large, yet efficient and enthusiastic committee responsible for its organisation. Its members were: Jock Churchman (President), John Keeling (Secretary), Mark Raven (Treasurer), Lew Barnes, Will Gates, Peter Self, Rob Fitzpatrick, Rob Murray, Malcolm Wright and Marek Zbik.

The newly elected committee of the ACMS is Tony Eggleton (President), Richard Greene (Secretary), Mark Raven (Treasurer), Robyn Westcott, Berlinda Crowther, Will Gates and Jock Churchman (as Past President). The next conference will be held in 2002, most probably in rural New South Wales. Watch this space!

Further details about the conference, including photos, and also on the Australian Clay Minerals Society's other activities, can be found on the ACMS web page at <http://www.unisa.edu.au/acms>. Please also note that the 1995 book "Clays Controlling the Environment" (i.e. The Proceedings of the 10th International Clay Conference) is now available again. For details, contact <http://www.publish.csiro.au/books/bookpage.cfm?PID=41>.

Jock Churchman
e-mail: jock.churchman@adl.clw.csiro.au

BRAZIL

The 31th IGC - International Geological Congress was held in Rio de Janeiro, in October. Two sessions in the Symposia were dedicated to clays: "The Use of Clays in the Next Century" and "Rock Alteration in Tropical Domains"; some papers on clays were also presented in the session on "Applied Mineralogy". At the annual meetings of the Brazilian Ceramic Society, Geological Society, Geochemistry Society, Microscopy Society, Materials Science and Engineering 63 papers on clays were presented as posters or orally.

The Brazilian Clay Minerals Group had several meetings planning the Brazilian participation to the 12th Conference in Bahia Blanca. Brazilian clay scientists have submitted about two dozen papers to the Conference and Symposia.

Pérsio de Souza Santos
President and Liaison Officer
Brazilian Clay Minerals Group

Antonio Carlos Vieira Coelho
Vice-President

CLAY MINERALS SOCIETY (NORTH AMERICA)

The Clay Minerals Society's 37th Annual Meeting was held on the Water Tower Campus of Loyola University of Chicago in Chicago, Illinois on 24-29 June 2000. The theme of the meeting was "Clays in the past and future millennia". The meeting was hosted by the Department of Chemistry, and it was organized by Dr. Alanah Fitch. The George W. Brindley Lecture was presented by Dr. Duane M. Moore, Illinois State Geological Survey, and entitled "Links: George Brindley and intellectual genealogies". Dr. Jillian F. Banfield, University of Wisconsin-Madison, received the Jackson Mid-Career Clay Science Award and presented a lecture entitled "Small things great and all". Dr. William F. Moll, Oil-Dri Corporation, presented the Pioneers in Clay Science Lecture on "Clays where you least expect them". The first Bailey Award (previously called the "Distinguished Member Award") for distinguished research was presented to Dr. Boris B. Zvyagin, Russian Academy of Sciences, who presented a talk on "Current problems of the nomenclature of phyllosilicates".

There were a total of 113 papers, including 27 posters. Sessions included the following areas:

General sessions:

I. (7 papers), II. (9 papers), III. (6 papers), IV. (6 papers),
V. (8 papers), VI. (3 papers)

Symposia:

Nanocomposite materials (4 papers)
Redox processes in clays I. (3 papers), II. (10 papers)
Archaeology (8 papers)
Vermiculites (8 papers)
Clays in the human future: Exterrestrial clays (6 papers)
Clay minerals and glacial stratigraphy (4 papers)
Agrichemicals and clays (4 papers)

Posters:

I. (27 papers)

There were three field trips: Field trip 1 was entitled "Urban geology in the Chicago area", Field trip 2 was "Industrial clays", and Field trip 3 was a visit to Argonne National Laboratory to see the Advanced Photon Source (synchrotron). Two trips were on Wednesday afternoon and the latter trip was on Thursday morning. The pre-meeting workshop was on "Industrial clay mineralogy", and a volume is planned. Highlights of the meeting were the dinner and boat trip along the coastline of Lake Michigan to view the beautiful skyline of Chicago at twilight, and the reception in the Field Museum where Sue, a near complete Tyrannosaurus skeleton, and other exhibits were on display.

2 pictures from the 2000 CMS meeting in Chicago, taken from the cruise ship where the banquet was served.



left to right: Bob Reynolds, Dick Berry, Bob Ylagan, Darryll Schulze. Background: Lake Michigan



Left to right: Steve Guggenheim, Dick Merriman, Blair Jones, Linda Guggenheim, Brend Ross. Background shows the skyline of Chicago

The following student awards were given: Research Grants were made to Y. You, University of Wyoming (\$2,500 for "Adsorption of Inorganic and Organic Contaminants by Layered Double Hydroxides"); A. Emerson, South Dakota School of Mines and Technology, was awarded \$2,000 for "Applications of Visible and Near Infrared Reflectance Spectroscopy for the Study of Metamorphosed Argillaceous Rocks"; H. M. Dion, Washington State University, was awarded \$1,000 for "Determination of Partition Coefficients for Clay Minerals and Polar Organic Herbicides Using On-Line Subcritical Fluid Chromatography Ion Mobility Spectrometry"; S. L. Bednarz, Portland State University, was awarded \$2,000 for "Influence of Halloysite Morphology and Textural Setting on the Engineering Properties of Basaltic Saprolites in Western Oregon"; L. G. Eversull, Louisiana State University, received \$1,000 for "Geologic Controls on Mineralogy and Industrial Properties of Clays in the Quincy-Attapulcus (North Florida—South Georgia) Clay District"; and J. M. Breiner, University of California-Riverside, received \$1,500 for "The modification of the properties of a colloidal mineral surface by adsorption of a hydrophobic organic compound and its influence on transport and deposition". Travel grants were awarded to: K. A. Mueller, Knox College and F. Toksoy-Köksal, Middle East Technical University, Ankara, Turkey. Best Paper Awards were made to Y. Deng, Texas A&M University, "Structural Stress Induced Intercalation of Kaolinite by Hydrazine", Best Paper Runner-up: H. Dion, Washington State University, "Subcritical Fluid Chromatography for the Determination of Partition Coefficients in Soil". Best Poster: C. B. Swearingen, Loyola University, "Ferrocenyl Surfactants and Their Effects on Sodium Montmorillonite", and Best Poster Runner-up: M. R. Hynes, University of Illinois at Urbana-Champaign, "Application of a Pima (Portable Infrared Mineral Analyzer) to Pipestone Flint Clay Studies of Two Native American Cultures".

Volume 9 of the CMS Workshop Lectures is available: *Synchrotron X-ray methods in Clay Science*. It is edited by D. Schulze, J. Stucki, and P. Bertsch. The price is US\$23 for non-members of the CMS and US\$18 for members. The book can be ordered from the Society Office.

The next annual meeting will be held at the University of Wisconsin-Madison, Madison, Wisconsin, from 16-20 June 2001. Symposia will include "Biomineralization", "Clay science: Visions from industry", "Environmental mineralogy/surface chemistry", "Mineralogy of Quaternary deposits and paleosols", "Clay liner technology", "Geology/Sedimentology", and general sessions. The workshop is being organized by V. Nzungu and J. Amonette and is entitled: "Degradation of organic contaminants at clay mineral and oxide surfaces". The field trip has not been decided at this time. Dr. William F. "Will" Bleam is the general chair.

Inquiries may be addressed to Dr. Will Bleam, Dept. of Soil Science, University of Wisconsin-Madison, 1525 Observatory Drive, Madison, Wisconsin 53706, U.S.A., phone: 608-262-9956, FAX: 608-265-2595, e-mail: wbleam@facstaff.wisc.edu or visit the CMS home page at <http://cms.lanl.gov/>.

CZECH NATIONAL CLAY GROUP

Conferences on Clay Mineralogy and Petrology with international participation were organized in various sites of the country since 1958. The town of Karlovy Vary (Carlsbad) - famous Spa in the Czech Republic with more than 600 years of curative tradition with 12 mineral springs (temperature 30°C -72°C) for the medicinal treatment - was chosen as the meeting place.

The XVIth Conference on Clay Mineralogy and Petrology was organized by the Czech National Clay Group and executed by the GEKON geological firm and by the SEDLECKY KAOLIN mining and processing enterprise in cooperation with other institutions.

The scientific programme of the conference was held in the Congress Centre of the Thermal hotel from August 27-31, 2000. The results of theoretical and applied research of clay minerals and argillaceous rocks dealing with geology, mineralogy, petrology, various branches of industry, soil science and the environment were presented in oral and poster forms. Seventy five specialists in clays attended the conference: 25 from Czech Republic, 50 from other countries. Thirty three contributions were presented in oral form besides 5 invited lectures and 13 posters.

The contributions were divided thematically into the following sections: Crystal structures and related research, surface properties and organoclays, mineralogy, petrology, geochemistry and properties of clays, applications of clay science to industry and ecological projects, Methods of clay minerals examination

The Czech National Clay Group's Committee invited plenary speakers who reviewed the most important discoveries made in theoretical and applied argillology during the past five years, and argillology at the threshold of the new millennium;

D.C. Bain (United Kingdom): Some important contributions to clay mineralogy published since 1995 and originating from Europe.

H.H. Murray (USA): Clay mineral developments in North and South America.

A. Yamagishi (Japan): Clay interlayer space as a microenvironment for molecular recognition.

B.B. Zviagina (Russia): Modern trends in clay mineral science in Russia and the allied states (1995-2000).

J. Konta (Czech Republic): Argillology at the threshold of the new millennium. A look at the history and present trends.

The programme of the conference was enriched with a field trip to a kaolin deposit Osmosa South and the deposits of kaolin near Jimlikov and Mirpva. A visit to the kaolin dressing plant, using for the separation of kaolin the supraconductive electro-magnet, at Bozicany was followed by an excursion to the porcelain factory at Novà Role. The participants saw the collection of the Czech porcelain, since the beginning of its production to the present time, in the Klasterec nad Ohri castle. At the end of the field trip was a visit to bentonite and kaolin deposits in the area of Rokle near Kadan.



*XVth Conference on Clay Mineralogy and Petrology:
a field trip to the kaolin deposit OSMOSA.*

At the beginning of the conference a welcome meeting was followed by sight-seeing of the town of Karlovy Vary and a walking tour to auto-metamorphosed granite. A book of abstracts together with the scientific programme and an excursion guide were for disposal to all participants at their registration. Conference Proceedings of selected contributions are being prepared for the journal *Acta Universitatis Carolinae(Geologica)*. The new council of the Czech National Clay Group was elected for the next period: Melka K.(chairman), Krelina B., Stasny M, Konta J., Aron L., Weiss Z., Sulovsky P. and Rychly P. (Pacal Z.) as a representative of the Zeolite Subgroup. The Czech National Clay Group organized two seminars in the year 2000. Both of them took place in Prague at the Czech Geological Survey.

The spring meeting was held on May 24 with the following programme:K. Klanova: Clay minerals used as liquidators of bacteria, moulds and dust mite allergens in households.
J. Brandstetr: Zeolites in mortars and concretes.
M. Trojan: Ecological aspects of anorganic pigments in ceramic materials.

In the second seminar, held on December 6, three lectures were delivered:
J. Konta: The importance of theoretical argillology for tile ceramic science and technology.
J. Bartos: North Bohemian foundry bentonites.

B.Krelina: The evaluation of the XVth Conference on Clay Mineralogy and Petrology in Karlovy Vary.
Proceedings of the XVth Conference on Clay Mineralogy and Petrology in Brno (1998) were edited in the journal *Scripta Facultatis Scientiarum Naturalium Universitatis Masarykianae Brunensis (Geology)*, vol 28-29.

Karel Melka
Fax: 00-420-2-20922670
E-mail: inst@gli.cas.cz

DTTG: GERMAN CLAY AND CLAY MINERAL GROUP

The annual meeting of the German Clay and Clay Mineral Group (DTTG) took place at the Swiss Federal Institute of Technology Zurich from 30th August-1st September 2000. It was organized by R. Hermanns-Stengele and M. Ploetze/Zurich. A total of 81 scientists from 7 European countries participated in the successful meeting and the excursions to local clay deposits. For the first time the conference was held together with the German Soil Science Society, commission on Soil Mineralogy. 28 lectures and 14 posters dealing with a great variety of most interesting investigations in clay sciences were presented.

During the meeting of the committee and the members it was decided that the next meeting will be held in Limburg. It will be organized by the Stephan Schmidt Group from the 8th-10th October 2001. The conference will be organized by Dr. M. Schellhorn, Stephan Schmidt Group, Bahnhofstr. 92, D-65599 Dornburg-Langendembach, Tel.: +49/6436/609-0.

The committee elected in Zurich consists of Kurt A. Czurda (Chairman), Jean-Frank Wagner (Treasurer), Reiner Haus (Secretary) and six associated members.

For any further information please contact the DTTG Secretary, Reiner Haus, Dorfner Group, Scharhof 1, D-92242 Hirschau. e-mail: r.haus@dorfner.de.

Reiner Haus

HUNGARY

Papers on clay mineralogy were presented in the sessions and meetings of the Clay Mineralogy Section of the Hungarian Geological Society and of the Soil Mineralogy Section of Hungarian Soil Science Society, held normally in Budapest:

February 14, 2000

Nagy, N., Kónya, J.: Fixation of amino acids on various monocationic montmorillonites.
Viczián, L.: Report on the EUROCLAY 1999 meeting held in Cracow, Poland.

May 8

Juhász, Z.: Effect of cation exchange and mechanical activation of the system water-bentonite.
In this session a new Council of the Clay Mineralogy Section for the next term of 3 years was elected: *President:* István Viczián, *Secretary:* Tibor Németh, *Members:* Mária Földvári, Béla Raucsik, Géza Szendrei.

October 9

A one-day meeting on *Paleosoils* was held in Budapest. 15 papers were presented. The meeting was attended by more than 60 people. *Plenary lectures* were presented by P. Stefanovits and E. Nemezc. Lectures on *Quaternary red clays, soil horizons in lignite deposits, loess and travertine* were held by I. Viczián, J. Fekete, J. Berényi-Üveges, G. Bidló, Gy. Szöör, Z. Horváth, L. Koloszá, I. Marsi, M. Földvári and L. Korpás.

Tertiary paleosoils were characterised by K. Székvölgyi and A. Varga. *Paleosol horizons in Transdanubian Triassic carbonate sequences* were presented by A. Mindszenty and P. Kovács-Pálffy. The meeting demonstrated the growing importance of the study of paleosoils in solving paleoclimatic, agricultural and environmental problems.

November 24

A one-day meeting was held on the "Tertiary formations of the area around Bükk Mts." I. Viczián discussed clay mineralogy of Tertiary sediments on the top of the Mesozoic plateau and in the Borsod Basin adjacent to the Bükk Mts..

In addition to the meetings organised by the Geological and Soil Science Societies, clay activity was carried out by several other organisations:

From 9th to 10th March an international conference entitled "*Minerals of the Carpathians*" was organised by the University and Herman Ottó Museum of Miskolc. Many papers dealing with clay minerals of the Carpathian region were presented in this conference, including adsorption of heavy metals (Bajda et al., Cracow), hydrothermal alteration of Tertiary volcanic rocks (F. Molnár, B. Bajnóczy), evaporites of the Carpathian foredeep (Bilonizhka, Lviv), very low-grade Alpine metamorphic rocks of the Southern Carpathians (Ciulavu, Seghedi, Bucharest), celadonites of the Úrkút manganese deposit (T. Weiszburg, J. Mizák), Transylvanian glauconites (T. Weiszburg, D. Pop, Cluj-Napoca) etc.

From 15th to 20th May The European Mineralogical Union arranged the 2nd EMU School and Symposium at Eötvös University, Budapest. Theme of the School was "*Environmental Mineralogy*". A wide international audience attended the school in which clay minerals and clays were extensively discussed as components of soils (Cotter-Howells, Paterson, Aberdeen, Scotland) and of modern marine sediments (Aplin, Newcastle-upon-Tyne, U.K.) as well as suitable barriers for controlled landfills (Hermans Stengele, Plötze, Zürich, Switzerland). The Notes of the School were published: Vaughan, D. J., Wogelius, R. A. (ed.) 2000: *Environmental mineralogy*. University textbook.

European Mineralogical Union, *Notes in Mineralogy 2*. Eötvös University Press, Budapest. The book is available at Eötvös University Press, Budapest, Puskin utca 11-13. H-1088, Hungary.

On September 11, a one-day meeting was held in Veszprém in honour of the 80th birthday of professor E. Némecz. During the meeting the following presentations dealt with clay problems, which has been the prominent field of activity of professor Némecz:

Nagy, B., Merényi, L.: New data on the halloysite from Gyöngyösoroszi.

Raucsik, B., Merényi, L.: Clay mineralogy of Lower Jurassic hemipelagic formations of Mecsek Mts..

Pilster, Z.: Structure determination of a synthetic layer silicate.

From 25th to 28th September the 3rd International Conference of the Kolloid-Gesellschaft (Germany) was held in Budapest, jointly organised with Hungarian Academy of Sciences. Title of the Conference was *Adsorption and Nanostructures*. The Conference was attended by many foreign participants including G. Lagaly (Kiel), Chairman of ECGA and F. Bergaya (Orléans), Secretary of ECGA. Prof. Imre Dékány (Szeged University) served as Local Chairman. Some presentations included colloidal properties of clay minerals.

On November 9, T. Némecz reported on the importance of clay minerals in environmental geochemistry in a meeting organised by the Geochemical Laboratory of the Hungarian Academy of Sciences.

István Viczián
viczian@mafi.hu

GRUPPO ITALIANO AIPEA

Several Italian clay scientists attended the XVIth Conference on Clay Mineralogy and Petrography held in Karlovy Vary Spa on 27-31 August 2000, the Third International Symposium of the Working Group MO of the International Union of Soil Sciences (IUSS), held in Naples-Capri on 22-26 May, 2000 and the 1st Latin-American Clay Conference held in Funchal, Madeira (Portugal) on 17-22 September 2000.

At the first Latin-American Conference, a very well organized and excellent meeting, Drs Luciano Tomadin, Saverio Fiore, Fernando Veniale, and Antonio Violante were invited to present plenary lectures.

The 3rd International Symposium of the Working Group M.O. of the IUSS "Soil Mineral-Organic Matter-Microorganism Interactions and Ecosystem Health" was cosponsored by the IUSS, the University of Naples "Federico II", the Società Italiana di Scienza del Suolo (SISS) and the Gruppo Italiano AIPEA.

The aim of the Symposium was to provide a forum for interactions of soil chemists, soil mineralogists, soil microbiologists, soil biochemists and environmental scientists to stimulate and promote discussion, exchange of information and knowledge and to bring together scientists from around the world who do not normally interact or attend the same scientific meetings.

More than 220 scientists of 33 different countries participated at this scientific event. Forty-five presentations were delivered and concurrently 145 posters were also exhibited during the Symposium. Many scientists of the Gruppo Italiano AIPEA presented oral and poster papers.

A book containing selected papers presented at the Symposium will be published in 2001 by Elsevier in the series "Development in Soil Sciences" (eds, A. Violante, P.M. Huang, J.-M. Bollag, L. Gianfreda). A special volume "Determinative methods in clay minerals" (Dr. S. Fiore, editor) has been recently published by the Gruppo Italiano AIPEA. This volume contains the lectures given by invited scientists at a training course held in Tito (Potenza) in September 1999.

A meeting was held in Pavia on September 10-13, 2000 during the Congress of the Società Italiana di Mineralogia e Petrologia (SIMP) with an open topic on all clay related research. During the Congress two invited lectures were given by Drs A. De Cristofaro and T. Sabetta, the recipients of the 1999 Luigi Dell'Anna awards, who presented respectively the papers "Effect of hydroxy-aluminium species on the adsorption and interlayering of protein molecules onto montmorillonite" and "La ceramica a vernice nera di Suasa: studio minero-geochimico di vernici e impasti per ricostruire le tecnologie di produzione".

During the meeting held in Pavia the members of the Gruppo Italiano AIPEA received the sad news of Dr. Andrea Alietti's death.

Dr. Alietti was born on July 24, 1923 in Cremona. He received his degree in Chemistry in 1947 from the University of Pavia and since 1949 he worked as assistant professor and then as full professor at the University of Modena, carrying out important studies on clay minerals.

Particularly important are his researches on regularly interstratified minerals. Dr. Alietti (1959) reported that hydrothermal fluids had overrun serpentinite rock, altering it to talc, which then weathered to three different mixed-layer assemblages. X-ray diffraction patterns of a dark green mineral gave a basal spacing of 2.48 nm with 10 integral higher orders. The basal spacing increased to 2.71 nm on glycerol treatment, indicating regularly interstratified 1.7 nm and 1.0 nm layers. On heating at 400°C the basal spacing from the mixed layers decreased to 0.96 nm. The mixture was identified as regularly interstratified talc and saponite layers. In recognition of his scientific contribution in these studies a regularly interstratified mineral (saponite-talc) was called "alietite".

Colleagues, students and friends have been fortunate to share many experiences with Dr. Alietti both as a professional and as a friend.

In 2000 the Gruppo Italiano AIPEA has sponsored the "Luigi Dell'Anna" award for a young Italian clay researcher to promote his/her participation at the International Clay Conference which will be held in Bahia Blanca (Argentina) in 2001, the "Giovanni Novelli" award for young scientists involved in studies on smectites and some grants ("Tesi di Laurea") for graduated students.

The new website (www.aipea.it) will provide detailed information both in Italian and English on the scientific activities of the Gruppo Italiano AIPEA.

Antonio VIOLANTE
Violante@unina.it

NORDIC SOCIETY FOR CLAY RESEARCH

The annual meeting was held on October 18th on board M/S Mariella on the route between Stockholm and Helsinki. 16 members took part in the meeting and, furthermore, 2 guest speakers to the scientific program following the meeting. During the annual meeting a new board was elected and Liisa Carlson presented the new website of the society (www.geocities.com/lerforeningen).

Board 2000/2001

President: Kristian Lindqvist, Geological Survey of Finland, P.O. Box 96, FIN-02151 Espoo, Finland. E-mail: kristian.lindqvist@gsf.fi
Secretary: Liisa Carlson, Geological Survey of Finland, P.O. Box 96, FIN-02151 Espoo, Finland. E-mail: liisa.carlson@gsf.fi
Treasurer: Magnus Johansson, Institutionen för Natur och Miljö, Geovetenskap och Geografi, Karlstad universitet, S-65188 Karlstad, Sweden. E-mail: magnus.johansson@kau.se
Auditors: Rodney Stevens, Geologiska inst, Geovetarcentrum, S-41381 Göteborg, Sweden. E-mail: stevens@gvc.gu.se
Carl-Magnus Backman, SGU, P.O. Box 670, S-75128 Uppsala, Sweden
deputy: Birgitta Hulthén, P.O. Box 57, S-26040 Viken, Sweden. E-mail: birgitta.hulthen@geol.lu.se

Representatives of member countries:

Denmark: Ole Bjørslev Nielsen, Inst. f. Geologi, Aarhus Universitet, DK-8000 Aarhus C, Denmark. E-mail: geololen@aau.dk
deputy: Vibeke Ernstsen, GEUS, Thoravej 8, DK-2400 København NV, Denmark. E-mail: ve@geus.dk
Finland: Liisa Carlson, Geological Survey of Finland, P.O. Box 96, FIN-02151 Espoo, Finland. E-mail: liisa.carlson@gsf.fi
deputy: Pirjo Kuula-Väisänen, Depart Civil Engineering, Tampere University of Techn., P.O. Box 600, FIN-33101, Tampere, Finland. E-mail: pirjo.kuula-vaيسانen@tut.fi
Iceland: Hrefna Kristmannsdóttir, Orkustufnun, Grensavegur 9, IS-108 Reykjavik, Island. E-post: hk@os.is
deputy: Vigdis Hardardóttir, Orkustufnun, Grensavegur 9, IS-108 Reykjavik, Island
Norway: Per Jörgensen, Institutt for jordfag, NLH, P.O. Box 28, Ås, Norway. E-mail: per.jorgensen@ijvf.nlh.no
deputy: Elen Roaldset, Bekkelagshøgda, P.O. Box 5, N-1109, Oslo, Norway. E-mail: roaldset@online.no
Sweden: Sven Snäll, Sveriges Geologiska Undersökning, P.O. Box 670, S-75128 Uppsala, Sverige. E-mail: sven.snall@sgu.se
deputy: Marek Tokarz, Eka Nobel AB, S-44501 Surte, Sverige. E-mail: mt@rbo.ekachemicals.com

Electoral committee:

Per Jörgensen, Institutt for jordfag, NLH, P.O. Box 28, Ås, Norway. E-mail: per.jorgensen@ijvf.nlh.no
Knud Binzer, Enggård, Borsholmsvej 7, DK-3100 Hornbaek, Denmark. E-mail: kb@geus.dk
Raimo Uusinoka, Tampere University of Technology, P.O. Box 600, FIN-33101 Tampere, Finland. E-mail: raimo.uusinoka@tut.fi
Karna Lidmar-Bergström (convener), Naturgeografiska inst., Stockholms universitet, S-10691 Stockholm. E-mail: karna@natgeo.su.se

Reporter to AIPEA:

Liisa Carlson

During the scientific part of the meeting the following papers were presented:

Mikael Y. Faituri: Mineralogical composition of the Jabel Al Akhdar upland soils in Libya
Paula Keto: The formation of bentonite deposits in Wyoming(USA), Almeria (Spain) and on the island of Milos (Greece)
Marianne Bruvolf: Clay mineralogy of the Spekk- and melkeformation at Haltenbanken
Markku Lehtinen: On the chlorites of Finnish soapstone deposits
Irina Shtangeeva: Bioremediation of contaminated soils. Some approaches or increasing metal uptake
Titta-Miia Kaivola: Asbestos fibres in soil samples
Sirpa Kumpulainen: Mineralogy and geochemistry of mine-drainage precipitates in Finland
Kristian Lindqvist: Short presentation of the clay meeting at Karlovy Vary

An excursion to southwestern Finland was arranged in connection with the meeting on October 19th by Markku Lehtinen, Geological Survey of Finland. The group visited the bentonite production plant of SP Minerals and the Tytyri Mining Museum.

The next annual meeting together with a scientific program and a field trip is planned to be held in Norway in the second half of October 2001. Norwegian members of the society have been contacted.

POLAND

A one-day meeting of the group took place in May 23 in Warsaw. It was hosted by the Institute of Geological Sciences PAS. The number of participants was 37. Five lectures were presented:

- Interpretation of K-Ar ages of clay fractions in rocks, by J. Srodon,
- Classification of smectites by A. Wiewióra,
- Superstructure in talcs by A. Wiewióra,
- Deep-water glauconization of smectite by A. Wiewióra, P. Giresse, S. Petit, A. Wilamowski and K. Szymanski,
- Corrensite in Permian metavolcanic rocks from the vicinity of Gorzów Wielkopolski by P. Bylina, E. Dubinska, G. Kapron, J.A.Kozubowski, A. Kozłowski, B. Baginski and C. Kulicki.

P. Wyszomirski and K. Szczepek-Wcislo presented a poster: Raw material characteristics of Krakowiecki clay in the deposit Kolbuszowa-Kupno.

Internet communication between group members was established (please send info to: ndsrodon@cyf-kr.edu.pl). By-laws of the group were accepted during Warsaw meeting. A fund helping young group members to participate in conferences was established.

The head of the group (J. Srodon) became member of the organizing committee of the 1st Mid-European Clay Conference planned to take place in Stara Lesna, Slovakia, 9-14 September 2001 (<http://nic.savba.sk/sav/inst/uach/Mecc01/homepage.htm>).

Jan Srodon

SOUTH AFRICA

The South African Clay Interest Group that was nearly dormant for the last couple of years received a boost through Dr. Antoine F. Mulaba from the Engineering Faculty of the Witwatersrand Technikon whose research activities on (local) natural clays focus on physico-chemical studies and industrial applications mainly under the following aspects:

1. Beneficiation of local clays to improve their ceramic performances, (Master Degree-G.Ekosse).
2. Beneficiation of local clays to improve their foundry properties, (Doctorate degree- D. Kasongo).
3. Study of the activation of local clays.
4. The Characterisation of activated clays using modern spectroscopic techniques (Mössbauer Spectroscopy, EXAFS, NMR, and FTIR) in addition to the conventional XRD.
5. Beneficiation and physico-chemical treatment of clay materials used in local potteries.
6. Dating and characterisation of locally found archaeological clay relics.
7. Ions exchange using local clays
8. Clay structures as industrial and domestic waste disposal sites.

Dr. A. F. Mulaba aims at organising in the year 2003 an International Conference on Applied Clays Science here in South Africa for which he is seeking support.

His e-mail addresses are: mulaba@twrinet.twr.ac.za and mulaba@physnet.phys.wits.ac.za

Dr. Dieter Bühmann
buma@geoscience.org.za

RUSSIA

1. A special session was held 08.11.2000 in IGEM RAS (Moscow) devoted to the memory of the outstanding clay scientist academician F.V. Chukhrov. Prof. V.A. Drits presented a lecture on the new aspects in structural studies and practical applications of clay minerals. Dr. I.N. Kigay talked about mineral colloids and their identification criteria.
2. Russian and Ukrainian clay scientists were provided the possibility to attend the XVI Conference on Clay Mineralogy and Petrology in Karlovy Vary (CR), August 2000. The plenary lecture presented by Bella B. Zviagina reported about the modern trends of clay studies in Russia and Allied States during 1995-2000.
3. Current problems regarding the nomenclature of phyllosilicates were considered at the 37th annual meeting of the Clay Mineral Society (USA, Chicago, June 24-29, 2000) by B.B. Zvyagin as a recipient of the 2000 Sturgis W. and Marilyn Bailey Award.

Boris Zvyagin
e-mail: zvyagin@igem.ru

SERBIA

The Serbian Academy of Sciences and Arts dedicated Special Issue to Prof. Zoran Maksimovic for his 75 years of life and 50 years of scientific activity. In the biography of Z. Maksimovic is given a review of his scientific contribution to the mineralogy and geochemistry of alteration of ultramafic rocks, kaolin deposits in the former Yugoslavia, and karst bauxites and karstic nickel deposits (V. Jovic). Maksimovic had discovered new clay minerals: takovite, brindleyite, and baite, and defined kerolite-pimelite and lizardite-nepouite series. The Special Issue contains also some papers concerning clay minerals: Crystal Structure of Serpentine Minerals (I. Krstanovic); Alteration of Phlogopite from Kersantite of Preëica (Avala Mt., Serbia) (V. Jovic, D. Prelevic and S. Djuric); Antigorite Polysomatism and its Importance for Metamorphism in Serbia (M.M. Logar).

In the Proceedings of the International Symposium: Geology and Metallogeny of the Dinarides and the Vardar Zone (Banja Luka and Serbian Sarajevo, 2000) there are a few contributions dealt with clay minerals. Among them the most interesting one is about metamorphosed weathering crust with Ni-bearing talc on Paleozoic serpentinites in Radoëelo Mt. (Serbia) (Z. Maksimovic et al.).

The following topics are also studied and published in the other journals: mineralogy of weathering of gabbro from Deli Jovan Mt. (eastern Serbia); refractory clays from the Arandjelovac Miocene Basin; ceramic raw materials and contemporary ceramics: kaolins from Arandjelovac; clayey sands from Lazine deposit as potential ceramic raw material.

Prof. Dr. Vidojko Jovic
Faculty of Mining and Geology
Djusina 7, 11000 Belgrade Yugoslavia

TURKISH NATIONAL COMMITTEE ON CLAY SCIENCES

Executive Committee 1999 - 2001

President: Dr. Asuman G. Turkmenoglu
Vice - President : Dr. Cemil Cangir
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In 2000 The Turkish National Committee on Clay Sciences became a sponsoring group of Clay Minerals, The Journal of the European Clay Groups. It's name appeared first on the inside front cover of Clay Minerals in the September issue with the other eleven supporting National Groups.

10th National Clay Symposium will be held at Konya city in cooperation with the Selcuk University on September 19-23, 2001. Its organization is in progress.

Dr. Asuman G. Turkmenoglu
asumant@metu.edu.tr

THE CLAY MINERALS GROUP (United Kingdom)

Group Committee

Chairman: R.J. Merriman
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Principal editor: D. Bain
Associate editor: C. Breen
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General Group activities

The Clay Minerals Group has continued to raise awareness of the importance of clay minerals as geological, environmental and industrial material through conferences and the Journal of the European Clay Groups - Clay Minerals. The Group had a major part in convening the successful Mineralogical Society Millennium meeting - From Magma-to-Mud and Back - at Reading University last December. However, plans to publish papers from the conference in the Min. Soc. Book Series could not be fulfilled. Our Spring 2000 meeting- Industrial Clays - held at the University of Exeter, was the first occasion of the newly introduced annual George Brown Lecture. Alain Plançon (Université d'Orléans, France) gave the lecture entitled 'Order Disorder in Clay Mineral Structures' which will be published in the March 2001 issue. The CMG was represented at the Clay Minerals Society 37th annual meeting in Chicago, June 2000, where a poster to advertising Clay Minerals 'on-line' was displayed and several new members recruited.

As many of us now know, Derek Bain, the Principal Editor of Clay Minerals, has been appointed the Editor-in-Chief of Clays and Clay Minerals. Consequently, from 1st January 2001, Derek has resigned as Principal Editor.

For the past 12 or more years he has skillfully enhanced the international reputation of Clay Minerals as the journal of some 18 European and Middle East clay groups, competing vigorously with our younger sister journal Clays and Clay Minerals and also with new breeds of environmental mineralogy journals. On behalf of the CMG Group we thank him for his unstinting service to clay mineralogy, and wish him well as Editor-in-Chief.

Spring Meeting, Exeter 6-7 April 2000

Some forty people attended this meeting, in order to focus their thoughts on "Industrial Clays". The first day was arranged around a programme of oral presentations, all of which were stimulating. Starting with a consideration of quantitative XRD methods applied to ball clays, which was given by Ye Ying / MLURI, the meeting was then given an interesting presentation by Delphine Vantalou / LEM-GRESO on the crystal chemistry of iron in montmorillonites and its perceived effects on rheological properties. Steve Hillier / MLURI then rounded off the first session with a comprehensive discussion of reference intensity ratio methods in XRD and IR spectroscopy, and their extension to full pattern matching.

Suitably refreshed, delegates were subsequently treated to a beautifully crafted talk by Alain Plançon / Orléans entitled 'Order Disorder in Clay Mineral Structures', this constituting the First George Brown Lecture. This is a newly introduced annual event sponsored by the Group in honour of the world-renowned clay mineralogist and founding member, George Brown. The talk got to the heart of current issues in Clay Mineralogy, focusing on the crystal structures of illites and smectites, and their determination by a combination of techniques, for example XRD, IR, EXAFS. Illustrations were also given of how structural modelling and XRD simulation methods could further our understanding of clay minerals. Alain has also submitted his review to Clay Minerals for publication.

Following a buffet lunch, Richard McCabe / Central Lancashire set a strong tone for the afternoon presentations, giving us a (reformed) organic chemist's view of smectites with regard to their applications in carbonless copying paper. The applied tone was carried forward by Simon Inglethorpe / BGS in considering the use of smectite-containing 'altered basalt' as a landfill material. Then Laurence Balavoine / LEM - GRESO went on to describe her work in investigating porous networks in fired ceramics, in particular with regard to how these varied with mineralogical composition.

James Dalton / Bristol initiated the second session of the afternoon by giving us a talk on the adsorption of polyacrylamide to kaolinite, compared to other minerals such as calcite and quartz. He presented results obtained by AFM and XPS, backed up by molecular modelling techniques. To round up the afternoon, Phil Robinson / Staffordshire gave a characteristically robust assessment of what clay mineralogy needs to contribute to ceramics.

On the evening of the 6th of April during the conference dinner in Mardon Hall, Alain Plançon was presented with a framed certificate to commemorate the 1st George Brown Lecture. Shortly after the presentation dinner was interrupted by the fire alarm and the entire company was forced to admire Exeter City by starlight for 15 minutes. Thanks to the foresight of several thirsty clay mineralogists, bottles of wine rescued from the table ensured that the party was well fortified for the chilly interlude. The second day's proceedings required rather less use of grey matter, as delegates took part in a brief field trip to WBB's operations near Newton Abbot. They were given an informative talk by Gordon Witte / WBB on-site in Southacre Quarry. Here the field trip rapidly transformed itself to a field day for all geologists present. A brief visit was then made to the WBB's processing plant for refined clays, this being led by Neil Mifflin and Dan Costello, both from WBB.

Following lunch, again on the Exeter campus, remaining delegates engaged in a half-hour informal discussion on the theme of the conference. The overall view was that the two days had been well spent, and we departed feeling fired up to continue our work on various aspects, pure and applied, of clay mineralogy.

Autumn Meeting

British Geological Survey, Nottingham, 7-8th December 2000

The Clay Minerals Group held its Autumn Meeting slightly later than usual on the 7 and 8 December 2000 in association with the Engineering Group of the Geological Society at the British Geological Survey, Nottingham. The meeting, entitled 'Slips, Shrinks and Swells: Clay Minerals and Geotechnics' was convened by Simon Kemp and David Entwisle, both of the British Geological Survey, and sought to explore the relationship between clay materials and their interactions with water in order to better understand and predict geotechnical properties.

More than 40 delegates attended the meeting, many from overseas and included a varied mix of academics, industrialists and consultants. A total of eighteen talks were presented, mostly as computer projections, together with a stimulating display of nine posters. In the first session, excellent overviews of engineering behaviour and clay mineralogy compared to mudstone maturity were initiated by the first keynote speaker (John Cripps, University of Sheffield) and followed by a dramatic heaving bedrock case study from Colorado.

The second session examined the role of mineralogy on the different engineering properties exhibited by several different UK mudstone-dominated formations. This was followed by a presentation of the status of the Geological Society 'Working Party on Clay Materials used in Construction' which aims to produce a practical, informative book to be used by a wide spectrum of readers. Session three covered laboratory-based investigations of clay-water interaction. Perhaps the highlight of this session was a sequence of time-lapse photographs of mud-cracks forming and re-sealing under a controlled drying and wetting regime.



Left to right, David Entwisle (BGS, convenor), Jock Churchman (CSIRO, keynote speaker), John Cripps (Univ. of Sheffield, keynote speaker) and Simon Kemp (BGS, convenor)

Despite further evidence for the UK's wettest autumn on record, a very enjoyable meeting dinner at the Cotgrave Place Golf and Country Club concluded the proceedings for the first day.

Following guided tours of the BGS site, the second day began with a session led by Jock Churchman (CSIRO, Australia) and devoted to the role clay minerals play in landslide development. The afternoon session was more varied with topics ranging from new methods for the laboratory measurement of shrink/swell, to the role of weathering in changing engineering behaviour and the problems encountered by tunnel boring machines when working in some mudstone lithologies.

The meeting closed with a very lively debate on the importance of clay mineralogy to engineering properties led by the two keynote speakers. It is hoped that the papers from the meeting will be published as a Special Publication of the Geological Society.

For further information on the activities of the Clay Minerals Group please contact the Secretary, Dr. Stephen Hillier, Macaulay Land Use Research Institute, Craigiebuckler, Aberdeen, AB15 8QH, UK (Tel 01224 318 611, Fax 01224 311 556, e-mail S.Hillier@mluri.sari.ac.uk).

7. MEETINGS

SYMPOSIUM ON GEOLOGY AND INVESTMENT.

April 2-4, Amman, Jordan

The Jordanian Geologists Association will hold an international symposium on geology and investment. Papers are invited on any topic related to the theme of the Conference.

For more information or questions contact the following address:

PO Box 142277

Amman 11814 Jordan

Telefax: 962-6-5862569

e-mail: info@jordanian-geologists.com

Website <http://jordanian-geologists.com>

8. 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)

	1 year	4 years
Individual member	7.50	30.0
Institution/Company	25.00	100.0
Student member	3.75	15.0

Affiliated societies: 50% reduction per member. All members are then automatically AIPEA members.

Your cooperation in observing the following suggestions in paying your membership fees will be appreciated:

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.

1. Pay fees by
 - a) bank money order, payable in US dollars or
 - b) international postal money order, payable in US dollar
2. Pay membership fees for four-year periods
3. Make check or money order payable to AIPEA and mail to:

Prof. Pam M. Huang, treasurer AIPEA
Department of Soil Science
University of Saskatchewan, ,
51 Campus Drive, Saskatoon, SK S7N 5A8, Canada
tel: +1-306-966-6823
fax: +1-306-966-6881

9. AIPEA MEMBERSHIP APPLICATION FORM

please print or type!

Family name :

Given name:.....

Title:.....

Mailing Address:.....

Amount of due enclosed: \$ for years

Type of membership:

If you are an individual member of an Affiliated Society, give the name of the Society.....

Date:

Signature:

10. CHANGE OF ADDRESS

Name:

New Address:

.....

.....

.....

Date effective:

Please mail to the AIPEA Treasurer:

Prof. Pam M. Huang

Department of Soil Science

University of Saskatchewan, ,

51 Campus Drive, Saskatoon, SK S7N 5A8, Canada