aipea

**Association Internationale pour l'Étude des Argiles**
**International Association for the Study of Clays**
**Internationale Vereinigung zum Studium der Tone**
**Межлунаролная ассоциация по изучению глин**

**Newsletter N°45** **August 2013**

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**AFFILIATED SOCIETIES:**

- Algerian Clay Group (ACG)
- Australian Clay Minerals Society (ACMS)
- Clay Minerals Group of the Mineralogical Society (GB and Ireland)
- Clay Science Society of Japan
- Croatian Clay Group
- Czech National Clay Group
- Dutch Clay Group
- French Clay Group (GFA)
- German-Austrian-Swiss Clay Group (DTTG)
- Korean Clay Science Society (KorClay)
- Hungary Clay Group
- Israeli Society for Clay Research
- Italian Association for the Study of Clays (AISA)
- Nordic Society for Clay Research
- (North American) The Clay Minerals Society (CMS)
- Polish Clay Group
- Portuguese Clay Group (APA)
- Romanian Group for the Study of Clays and Clay Minerals
- Russian Clay Group
- Slovak Clay Group
- Spanish Clay Society (SEA)
- Tunisian Clay Group (TCG)
- Turkish National Committee of Clay Sciences
- Ukrainian Clay Group

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## 1. 2012'S PRESIDENT'S REPORT

Welcome to the AIPEA Newsletter for 2013. I am pleased to write to you all at the end of my four-year tenure as President of AIPEA.

During 2013 we celebrated the 50th Anniversary of AIPEA and we were really fortunate that it occurred in the same year as the 15th International Clay Conference (XV ICC). Organized on behalf of the AIPEA by the Brazilian Clay Group (GBA) of the Brazilian Geochemical Society (SBGq) in collaboration with the Brazilian Association of Petroleum Geologists (ABGP), it took place in Rio de Janeiro, Brazil from July 7-11th. On behalf of AIPEA we thanks Dr. Sylvia Maria Couto Anjos and Dr. Reiner Neumann and the organizing team for such a memorable conference (see the report later in this newsletter).

At the XV ICC, Prof. Robert A. Schoonheydt (KULeuven, Belgium) became the newest AIPEA Fellow. The Bradley Award recipient was Ana Clecia Santos Alcântara (Materials Science Institute of Madrid, Spain). Three Student Travel Awards were awarded to: Dayse Mirella Oliveira Timóteo (Federal University of Rio de Janeiro, Brazil), Gabriel G. Machado Álvarez (Technical University of Crete, Greece, and Federal University of Rio Grande do Sul, Brazil), and Valentin Robin (University of Poitiers, France).

AIPEA Council also evaluated all the student presentations in order to identify the winners of the awards for best oral and poster presentations. Awards for best student oral presentation went to: Robert Koch (University of Trento, Italy), Eliana Satiko Mano (Polytechnic School of Sao Paulo University, Brazil) and Sirle Liivamagi (University of Tartu, Estonia). Student awards for best poster presentation went to Syafina Binti Mohol Ghazi (Hokkaido University, Japan), Gabriella Fazio (University of Brasilia, Brazil), and Aleksandra Deregowska (University of Natural Resources and Life Sciences, Austria). I congratulate all of these students on their achievements.

During XV ICC, AIPEA Council decided to accept the affiliated society proposals of two new members: Korean Clay Science Society (KorClay) and Tunisian Clay Group (TCG). I take this opportunity to welcome them.

This year, AIPEA has received several proposals from National Clay Societies to host the 16th ICC. It was a real challenge for Council for to select one in preference to the others because of the excellence of the proposal presented. After extended discussions, it was decided that the 16th ICC will be held in Granada (Spain) and it will be organised by the Spanish Clay Society (SEA). The local organizing committee, represented by Dr. Emilio Galán and Dr. Alberto Lopez Galindo, gave a stimulating presentation describing their plans and invited the international community to joint SEA in this important challenge.

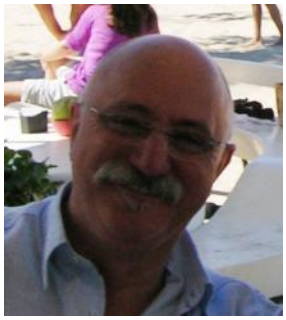
Last, but by no means least, I would like to express my sincere gratitude to all the members of AIPEA Council who worked so hard with me during my time as President. Dave Bish

deserves special mention for being ever-supportive; even to the point of standing in for me in my absence. I am delighted to be able to welcome our new President, Dr. Saverio Fiore, and extend my best wishes to Saverio and the new AIPEA council as they start on four years of enjoyable and successful work for AIPEA.

| | |
|---|---|
| | **Photo 1**: AIPEA acting President David L. Bish delivers the AIPEA Fellow certificate to Prof. Robert A. Schoonheydt from Katholieke Universiteit Leuven, Belgium, during AIPEA General Assembly (photo courtesy of XV ICC). |
| | **Photo 2**: AIPEA Treasurer Jeanne B. Percival presents the Student Travel Award winners at AIPEA General Assembly: Dayse Mirella Oliveira Timóteo (Brazil), Valentin Robin (France), and Gabriel G. Machado Álvarez (Greece and Brazil) – from left to right (photo courtesy of XV ICC). |
| | **Photo 3**: AIPEA Treasurer Jeanne B. Percival presents the winners of the Best Student Oral Presentation Awards during AIPEA General Assembly: Robert Koch (Italy), Eliana Satiko Mano (Brazil), and Sirle Liivamagi (Estonia) – from left to right (photo courtesy of XV ICC). |
| | **Photo 4**: AIPEA Treasurer Jeanne B. Percival presents the winners of the Best Student Poster Presentation Awards during AIPEA General Assembly: Aleksandra Deregowska represented by Prof. F. Ottner (Austria), Syafina Binti Mohol Ghazi (Japan), and Gabriella Fazio (Brazil) – from left to right (photo courtesy of XV ICC). |

By Christopher Breen
October/ 2013

## 2. REMARKS FROM THE NEW AIPEA PRESIDENT



I feel extremely honored to have been elected President of AIPEA. Before talking to you about our future initiatives, I want to praise Chris Breen for his leadership of AIPEA since 2009. Unfortunately, because of health problems, he could not join us today. I think that many of you, like me, miss him greatly.

We have also to praise our Secretary General, Daisy Barbosa Alves, and our Treasurer, Jeanne B. Percival, for their continuing efforts in the interest of our association. Thanks so much to the Vice President, Kiyoshi Okada; to the Councillors Sabine Petit, Warren Huff, Balwant Singh, Javier Huertas and Helge Stanjek, and to the chairs of the Committees – Stephen Guggenheim and Giora Rytwo – for their support to AIPEA during the last 4 years. And a very special thanks to David L. Bish, Past President, who, over the last six months, took charge of a lot of critical issues as acting President. Thanks so much Dave! We are all indebted to you.

I personally, and on behalf of AIPEA, heartily thank the organizers of this 15$^{th}$ International Clay Conference. You did an excellent job. Thanks, thanks so much!

Now I would like to share with you some thoughts about AIPEA.

1948. London. August. International Geological Congress. A small group of researchers from different countries met informally and decided to constitute a committee, the *Comité International pour l`Étude des Argiles*, CIPEA. The objectives of this Committee had to be – using the words of one of the members of the said committee, professor Ralph Grim: *to bring together a complete documentation of clays and their means of study, to facilitate contacts between specialists in these studies and to hold periodic meetings in the course of which all questions relative to clays will be examined and discussed*. The role of the members of the Committee was to act as a *liaison* between the Committee and researchers of their respective countries. I think that many participants of the International Geological Congress believed that it was a little group of crazy guys… that studied not visible and defective minerals… that used a strange technique called diffraction… that employed an unnamed radiation!

15 years later. 1963. Stockholm. An enthusiastic renowned clay scientist, Professor Rosenquist, welcomed about 200 people from 23 countries to the first International Clay Conference, organized under the auspices of CIPEA, which a few years later would become AIPEA. 200 scientists!… It was a considerable number of participants for that time. That was the time of several studies on geology and geochemistry of clays but also in physical chemistry, solid state chemistry, geotechnique and engineering, catalysis, and so on.

In the following decades the number of AIPEA affiliated societies grew and participants to the International Clay Conferences too. But, at the end of the past millennium, in spite of the

great number of studies on microminerals and to the diffusion of the most powerful communication system ever realized, the World Wide Web, it seemed that AIPEA was running out of steam in promoting international co-operation in clay research and technology. The affiliated societies diminished progressively. I have never forgotten the words written in a report of the International Union of Geological Sciences, to which AIPEA is affiliated: *The number of clay scientists is falling worldwide, which makes it more difficult to expand the activities of the association*…, they wrote. A few years later, however, at the 14th International Clay Conference in 2009, in Italy, the facts showed that earlier conclusion was wrong. Admittedly, it is true that in the last two decades, the interest of clay scientists for geological and soil sciences has decreased but surely the interest for microminerals has actually increased. Indeed, the number of applications has grown beyond all expectations, and not only in industrial fields but also in the environmental applications and medical uses. And recently, clay scientists are also studying clays on other planets although we have to admit that there are some difficulties in sampling and field excursions, but these difficulties will not stop our Curiosity.

What, in my opinion, led to such an apparent decrease in the interest of the scientific community for microminerals was a decrease in communication among national groups, among them and AIPEA, and between AIPEA and the scientific community.

These were the years of the impressive growing of the World Wide Web. As the futurist Ray Kurzweill recently said, "*today, in Africa, a little boy with a smartphone has access to more information than the President of the United States 15 years ago*". And we have to admit that our association failed to keep pace with the impetuous growth of internet.

In recent years, AIPEA has tried to fill this gap through the new website, a renewed Newsletter, the publication of the first volume of the AIPEA Educational Series. Very recently an important objective has been reached, thanks to a meticulous work that began in 2008 under the Presidency of David Bish and continued uninterrupted since then: the Association now has an almost complete email list.

These are the facts. That is the past. I would like to stress that I am not here to commemorate the past but it is fundamental to travel back to the past in order to meet the future. **I am here to dream our future**.

**I dream** a periodicity for the AIPEA Educational Series, which is so far only in its first volume, which collects the lectures given at the first edition of the AIPEA School for Young Scientists (ASYS). If we ensure a periodicity, the volumes can be encoded as a series and indexed by bibliographic databases. Lecturers of the 2nd edition of ASYS: we need your help.

**I have a dream today.** To build an efficient way to communicate with the Clay Science World through our web site. To do this, to achieve this goal, we need the help of you all. Interact with the Secretary, with the Treasurer, with the AIPEA representatives, with representatives of your National Group. Provide information. Ask for information. If we run

independently, just one of us will win. If we all walk together, we will go far, we will get to the finishing line all together, and we all will have won.

**I have a dream today.** To increase the number of AIPEA affiliated Societies. To help AIPEA means to help yourself with the creation of scientific co-operation and collaboration. Offer your time, a little piece of your time, to speak with your friends and your colleagues about AIPEA and the great opportunity that a National Clay Group may offer. We need your help to achieve this pivotal objective.

**I have a dream today.** To renovate our web site to welcome information from formal and informal clay national groups, to catalog and make available documents and images, because we must preserve the history of an association that began its slow journey on a day in August 1948, in London. We must do it to recognize the efforts of that little group of crazy guys… that studied not visible and defective minerals… that used a strange technique called diffraction… that employed an unnamed radiation!

These are the facts. That is the future. I am a dreamer, I know! Have I too many dreams? Maybe, but dreams are the anteroom of reality.

The next international conference will take place in Granada (Spain), and is planned for 2017. Our colleagues have already started with the arrangements for the conference, and we are quite sure that they will prepare an excellent meeting. I look forward to meeting all of you there in 2017. Have a safe trip back home and please do not forget that AIPEA needs your help. **AIPEA needs your dreams**.

Thank you!

by Saverio Fiore*
AIPEA Incoming President for 2013-2017

* Speech done at the AIPEA General Assembly on July 11$^{th}$ 2013, in Rio de Janeiro, Brazil during XV International Clay Conference.

We take this opportunity to thank all Officers and Councillors of AIPEA Council for their dedication and valuable support in the last four years of work. A new AIPEA Council has been elected during the 15th International Clay Conference at Rio de Janeiro (Brazil), in July 2013 and has been invested in the new position.

As usual, some colleagues will remain for another period but others have left and we would like to express our special gratitude to them for their keen cooperation: Prof. David L. Bish (Indiana University), Prof. Kiyoshi Okada (Tokyo Institute of Technology), Prof. Warren Huff (University of Cincinnati), Prof. Giora Rytwo (Tel Hai Academic College) and Dr. Reiner Neumann (CETEM - Centre for Mineral Technology).

At the same time we welcome the new AIPEA Officers and Councillors wishing them a very successful time of work. The Officers and Councillors who will work for AIPEA during 2013-2017 are as follows:

## AIPEA Executive Officers for 2013-2017

Dr. Saverio FIORE, President
Head of the Microminerals, Health & Environment Research Group
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Dr. Daisy Barbosa ALVES, Secretary-General
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Dr. Jeanne B. PERCIVAL, Treasurer
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## AIPEA Council Members for 2013-2017

Dr. F. Javier HUERTAS (Councillor, 2nd term)
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Russian Federation
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E-mail: Krupskaya@ruclay.com

Dr. Makoto OGAWA (Councillor, 1st term)
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FAX: +81-3-3207-4950
E-mail: makoto@waseda.jp

## Representative of the 16th ICC

Dr. Alberto LOPEZ GALINDO
Instituto Andaluz de Ciencias de la Tierra, Director
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## Committees

**Teaching Committee, Chair**
Dr. Sabine PETIT
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**Nomenclature Committee, Chair**
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**Hazardous Minerals Committee, Chair**

Dr. Saverio FIORE
Head of the Microminerals, Health & Environment Research Group
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## 4. AIPEA WEBSITE

The AIPEA Website at http://www.aipea.org is by now the most important means of communication for the international community dedicated to Clay and Clay Minerals since its creation in 2007, because it provides extensive information about many aspects of AIPEA and the clay sciences. Therefore it is an important tool which helps AIPEA fulfills its main purposes.

AIPEA Website has recently been reformatted in order to include many keen sections representative of the many aspects of this association. The members can find information about AIPEA mission, purposes, organization, statutes and by-laws, membership, council, publications, newsletters in a searchable way (a few specimens are missing or incomplete and we hope contribution to fill these gaps), committees, affiliated societies (name of the person who is responsible for contact with AIPEA), awards and medals (list of winners), historical overview; and links to the several national clay societies websites and to the International Union of Geological Sciences (IUGS), which AIPEA is affiliated to. By now AIPEA members can also find a page dedicated to multimedia archive and intended to keep good memories of AIPEA events available to its members.

There is a general sense that the AIPEA website should include the records of historical decisions, documents, the composition of old committees, distinguished clay scientists, etc. The perusal of old AIPEA Newsletters will propitiate recovering most of this past but the cooperation of those who have historical documents or photos will be warmly acknowledged.

During 2012, many relevant technical activities around the world have been announced through the AIPEA Website, continuously updated by AIPEA Webmaster, Dr. Saverio Fiore. It offers a long list of events (conferences, courses, projects, etc.) for 2013 and the following years in a complementary page (http://www.aipea.org/conferences.html). This list can also be found in the traditional way at the end of this newsletter.

We recommend that all AIPEA members and sympathizers undertake a systematic perusal of its contents in order to become updated with the many opportunities that are available around the world. We also ask you to check whether your national clay group is listed and if it is not – then encourage those in charge to make contact and to publicize their activities on the AIPEA Website.

Finally, all AIPEA members are encouraged to check the information currently available at our website and provide additional contributions. If errors are noticed, please inform us immediately so that we can make the proper corrections. Please remain in contact with us by sending news of relevant activities and events to the AIPEA webmaster Dr. Saverio Fiore (web@aipea.org) and/or to the AIPEA Secretary-General Dr. Daisy Barbosa Alves (secretary@aipea.org or daisy@cenpes.petrobras.com.br).

## 5. TREASURER'S REPORT (JAN.–DEC. 2012)

AIPEA continues to have excellent financial support from the main Clay Societies including Germany, Italy, Japan, Spain and USA. We are now getting support from the Australian Clay Society, Slovak Clay Group and the newest addition, the Croatian Clay Group. We look forward to affiliating the Tunisian Clay Group in the near future.

Invoices were emailed late in 2012 and so dues for the societies for 2012 and 2013 are coming in now. Hence, the Profit & Loss Report shows a balance of only $54.56 USD.

Expenses were minimal, essentially bank charges for electronic transfers and monthly statements and the annual support to Elements ($600 USD). Our total equity, including non-redeemable GIC's is $77,745.56 USD.

This is the ICC year, and funds will be used for awards: AIPEA Fellow, Bradley, Student travel, best oral and poster presentations. An audited report will be presented to Council at the XV ICC in Rio de Janeiro (Brazil) and an interim financial report will be made available to delegates at the conference.

By Jeanne Percival
March / 2013

7:27 PM

2013-03-25

Accrual Basis

# AIPEA
## Balance Sheet
### As of 31 December 2012

| | | 31 Dec 12 |
|---|---|---|
| **ASSETS** | | |
| **Current Assets** | | |
| **Chequing/Savings** | | |
| **Petty Cash** | | 127.89 |
| **Scotiabank Current Acct.** | | 18,219.49 |
| **Scotiabank Savings** | | 16,696.80 |
| **Total Chequing/Savings** | | 35,044.18 |
| **Other Current Assets** | | |
| **Non Redeemable GIC** | | |
| **Scotiabank** | | |
| **GIC-1** | 7,085.94 | |
| **GIC-2** | 35,615.44 | |
| **Total Scotiabank** | 42,701.38 | |
| **Total Non Redeemable GIC** | | 42,701.38 |
| **Total Other Current Assets** | | 42,701.38 |
| **Total Current Assets** | | 77,745.56 |
| **TOTAL ASSETS** | | **77,745.56** |
| **LIABILITIES & EQUITY** | | |
| **Equity** | | |
| **Unrestricted Net Assets** | | 77,691.00 |
| **Net Income** | | 54.56 |
| **Total Equity** | | 77,745.56 |
| **TOTAL LIABILITIES & EQUITY** | | **77,745.56** |

7:28 PM

2013-03-25

Accrual Basis

# AIPEA
# Profit & Loss
## January through December 2012

| | Jan - Dec 12 |
|---|---|
| **Ordinary Income/Expense** | |
| **Income** | |
| **Investment Income** | 137.31 |
| **Program Income** | |
| **Membership Dues** | 566.25 |
| **Total Program Income** | 566.25 |
| **Total Income** | 703.56 |
| **Gross Profit** | 703.56 |
| **Expense** | |
| **Advertising Expenses** | 600.00 |
| **Bank Charges & Interest** | 49.00 |
| **Total Expense** | 649.00 |
| **Net Ordinary Income** | 54.56 |
| **Net Income** | **54.56** |

## 6. INTERNATIONAL UNION OF GEOLOGICAL SCIENCES ANNUAL REPORT

REPORTING FORM FOR IUGS AFFILIATED ORGANIZATIONS 2012

**1. Country/region:**
AIPEA is an umbrella organization for the world's national clay societies which have 24 affiliated societies / groups from around the world: Algerian Clay Group, Australian Clay Minerals Society, Belgian Clay Group, (British & Irish) Clay Minerals Group, Clay Science Society of Japan, Croatian Clay Group, Czech National Clay Group, Dutch Clay Group, French Clay Group, German-Austrian-Swiss Clay Group, Greek Committee of Clay Science and Technology, Hungarian Clay Group. Israel Society of Clay Research, ,Italian Association for the Study of Clays, Nordic Society for Clay Research, (North American) Clay Minerals Society, Polish Clay Group, Portuguese Clay Group, Romanian Group for the Study of Clays and Clay Minerals, Russian Clay Group, Slovak Clay Group, Spanish Clay Society, Turkish National Committee of Clay Sciences and Ukrainian Clay Group.

**2. Name of IUGS Affiliated Organization:**
AIPEA, *Association Internationale pour l'Etude des Argiles*

**3. Status of the organization: Independent or?**
AIPEA is financially independent and receives income from subscriptions to the International Clay Conferences, from individual members and affiliated societies.

**4. Names of people in the Leadership/Committee positions?**
President: Prof. Christopher BREEN
Vice-president: Prof. Kiyoshi OKADA
Secretary-General: Dr. Daisy BARBOSA ALVES
Treasurer: Dr. Jeanne B. PERCIVAL

**5. Name, address and e-mail of person preparing the report.**
Prof. Christopher BREEN, President
Head of Polymers, Nanocomposites and Modelling,
Materials and Engineering Research Institute
Sheffield Hallam University
Sheffield S1 1WB
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E-mail: c.breen@shu.ac.uk

**6. Number of meetings of the organization during the year:**
AIPEA organizes an International Clay Conference every four years.

**7. What are the major issues of the current leadership committee?**
AIPEA's efforts in 2012 were directed towards attracting new clay societies to become affiliated to AIPEA and to give support to national clay societies in the organization of

local events. AIPEA is currently preparing for the many activities associated with the XV International Clay Conference which will take place in Rio de Janeiro from July 07 to 11, 2013 (see www.15icc.org). AIPEA was established in 1963 making 2013 the year of its 50th anniversary.

8. **Major accomplishments of the organization (or the geological communities):**
AIPEA continues to develop and further improve its website as a source of information and support for the worldwide clay community (www.aipea.org). AIPEA also produces an annual Newsletter which circulated among its members via e-mail and also made accessible via the AIPEA Website.

9. **Major activities (international symposium, workshop, outreach activities, hosting international/national meetings..):**
AIPEA's main activity is the International Clay Conference which takes place every four years. It has published the first monograph in the AIPEA Educational Series. This series will not be restricted to paper based texts but will encompass other formats as and when appropriate. A new report from the AIPEA Nomenclature Committee (2010-2012) has been published in the AIPEA Newsletter 2012.

10. **Recent geo-hazards such as earthquake, volcanic eruptions, etc.?**
Not applicable.

11. **Known activities of other geology-related academic organization(s) in each country (Geological Society, Geophysical/Geological Union, etc.):**
AIPEA Newsletter collated the activities undertaken by the 24 AIPEA affiliated societies around the world.

12. **Any specific activity/achievement that you would report on in Episodes and/or in the IUGS website (or in your website with a link on the IUGS one)?**
AIPEA will hold its next International Clay Conference (15th Edition) in Rio de Janeiro (Brazil), during July 7th to 11th 2013. Its announcement is at www.aipea.org.
We would like to advertise the publication of the 1st. monographs of AIPEA Educational Series entitled *Interstratified Clay Minerals: Origin, Characterization and Geochemical Significance* - edited by Saverio Fiore, Javier Cuadros and F. Javier Huertas. The price of the volume (ISBN: 978-88-7522-097-6) is €30.00 (international shipping included). To order a copy, please go to the AIPEA website (www.aipea.org).

13. **Direct relation with IUGS, executive members in the IUGS council?**
**/Are there people who are organizing or chairing task force meetings or any other IUGS activities?**
No.

14. **Approximate number of people who intend to participate in IUGS-IGC meeting every 4 years.**
No information.

**15. Suggestions for improvement of IUGS activities:**
None.

**16. Comments:**
None.

Prepared by:
Christopher Breen
President, AIPEA
January 31st, 2013
Sheffield Hallam University
Howard Street
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## 7. XV INTERNATIONAL CLAY CONFERENCE – XV ICC

AIPEA has held its XV International Clay Conference (XV ICC) in Rio de Janeiro, Brazil, in July 7 -11th 2013. It was organized jointly with the Brazilian Clay Group, a member of the Brazilian Geochemical Society (Sociedade Brasileira de Geoquímica - SBGq), in collaboration with the Brazilian Association of Petroleum Geologists (Associação Brasileira de Geólogos de Petróleo - ABGP). This event has provided a great opportunity for mineralogists, soil scientists, physicists, geochemists, engineers, chemists, materials scientists and other specialists to debate their findings, share ideas and transfer knowledge.

XV ICC brought together 154 scientists and 61 students from 30 countries to Rio de Janeiro, in order to participate in this memorable event. The following countries have been represented: Argentina, Australia, Austria, Belgium, Brazil, Canada, China, Colombia, Czech Republic, Denmark, Estonia, France, Germany, Italy, Japan, Latvia, Mozambique, Norway, Poland, Russia, Saudi Arabia, Slovakia, South Africa, Spain, Sweden, Switzerland, Turkey, United Kingdom, United States of America and Uruguay.

At the Open Ceremony, special tributes were dedicated to two Brazilian pioneer clay scientists for their life dedication to research and teaching clay science: Prof. Milton Luiz Laquitinie Formoso (emeritus professor of the Federal University of Rio Grande do Sul) and Prof. Pérsio de Souza Santos (in memoriam).

Altogether, 433 abstracts were distributed in 8 symposia and 11 technical sessions (173 oral and 260 poster presentations). Besides this, 4 plenary lectures, 14 keynote lectures, 10 field-trips, 2 short courses and ASYS. Information about the many activities of this memorable event will be disclosed for a period of one year (see www.15icc.org).

**Symposia**

| | |
|---|---|
| Sy1-PS | - Clay Minerals in Petroleum Systems |
| Sy2-LDH | - Layered Double Hydroxides |
| Sy3-SLC | - Structural Characterization of Lamellar Compounds |
| Sy4-RSS | - Remote Sensing and Spectroscopy of Clays and Associated Minerals |
| Sy5-WMS | - Water Mobility Studies in Reference & Real Clays |
| Sy6-CGE | - Clays in Geology: Vectors for Resources |
| Sy7-SMS | - Soil Mineralogy |
| Sy8-SOP | - Self-Organization from Clay Particles: From Nano to Macro |

**Technical Sessions:**

| | |
|---|---|
| TGG1 | - Applications of Clay Minerals in Earth Sciences |
| TCA1 | - Clay Minerals on Ceramic, Archaeological and Archaeometric Investigations |
| TCA2 | - Geotechnics and Clay Minerals |
| TEI1 | - Synthesis and Modifications of Clays |
| TEI2 | - Industrial Applications of Clay Minerals |
| TEI3 | - Waste Disposal and Clay Minerals |
| TEI4 | - Medical Geology and Clay Minerals |

TEI5 - Interaction of Microorganisms, Biomineralization and Clay Minerals
TEI6 - Nanocomposites and Clay Minerals
TEI7 - Organomodifications of Clays
TEI8 - Qualitative and Quantitative Analysis of Clay Minerals

**Invited Lecture**

- *Geotouristic context of the City of Rio de Janeiro and surrounding mountains and plains* - by Dr. Pedro V. Zalán (ZAG Consultoria em Exploração de Petróleo, Brazil).

**Plenary Lectures**

Four plenary lectures were delivered by notorious scientists, as follows:

- *The First X-ray Diffraction Results from the Mars Science Laboratory: Clay Minerals, Amorphous Materials, Sulfates* - by Prof. David L. Bish (University of Indiana, USA).
- *Functional Hybrid Clay Mineral Films* - by Prof. Robert A. Schoonheydt (Center for Surface Chemistry and Catalysis, KULeuven, Belgium).
- *Structure Determination of Defective Lamellar Compounds: Insights on Mineral Reactions and Material Properties* - by Dr. Bruno Lanson (University of Grenoble, France).
- *Complex Physics of Clays* - by Prof. Jon Otto Fossum (Norwegian University of Science, Norway, and Technology and PUC-Rio, Brazil).

**AIPEA School for Young Scientists (ASYS)**

Organized by Dr. Manuel Pozo (Universidad Autónoma de Madrid, Spain), the theme of the ASYS was: '*Magnesian clays: Characterization, Origin and Applications'*. This took place on July 6 and 7th.

**Short Courses**

Pre-conference short course on '*The chemistry of clay-polymer reactions*' was lectured by Dr. Benny K.G. Theng (Landcare Research New Zealand Limited) on July 5 to 7th.

Post-conference short course on '*Mössbauer spectroscopy of clays, clay minerals and archaeological ceramics*' was lectured by: Dr. Enver Murad (Germany) and Dr. José Domingos Fabris (Federal University of Minas Gerais, Brazil) on July 12 and 13th.

**Field Trips**

- Ten field trips (FT) have been offered to the participants of XV ICC, as followed:
- FT1 - Pre-Conference: Kaolin and bauxite from Rio Capim, Pará state;
- FT2 - Pre-Conference: Geology of Rio de Janeiro state;
- FT3 - Pre-Conference: Oil shale of Irati Formation – Paraná Basin;
- FT4 - Pre-Conference: Clay Minerals from flood basalts of Paraná Basin – Etendeka Magmatic Province – The case of Giant Amethyst Geodes;
- FT5 - Post-Conference: Kaolin and steatite (soapstone) occurrences in Quadrilátero Ferrífero and Ouro Preto city (UNESCO's World Heritage site), Minas Gerais state;
- FT6 - Post-Conference: Microbialites in lagoonal system;

- FT7 - Post-Conference: Charles Darwin's ways (Niteroi area);
- FT8 - Post-Conference: Clay minerals in soils of the Rio de Janeiro city area;
- FT9 - During-Conference: Visit to PETROBRAS research and development center (CENPES);
- FT10 -Post-Conference: Clay minerals and ceramic industries of Santa Gertrudes, São Paulo state;
- Only field trips 2, 7 and 9 have been effectively taken.

- **AIPEA Meetings:**
- Following the tradition, three AIPEA meetings took place during XV ICC:
- AIPEA Business Meeting on Sunday July 7th.
- AIPEA General Assembly on Thursday July 11th.
- AIPEA New Council Meeting on Thursday July 11th.

**Awards:**
The winner of the exposition on Clays and Arts was Ailton Luis da Silva de Souza (PETROBRAS, Brazil).

AIPEA has offered several awards to professional and student for the good quality of their work. So the AIPEA Fellow certificate was given to Prof. Robert A. Schoonheydt (KULeuven, Belgium). The Bradley Award was received by Ana Clecia Santos Alcântara (Materials Science Institute of Madrid, Spain) by the paper on *Polysaccharide-fibrous clay bionanocomposites*.

The AIPEA Student Travel Fund helped the following student to participate in the conference:

- Dayse Mirella Oliveira Timóteo (Federal University of Rio de Janeiro, Brazil) by the paper on *Mineralogical and technological characterization of a clay deposit in the region of Cubati (PB)*.
- Gabriel G. Machado Álvarez (Technical University of Crete, Greece, and Federal University of Rio Grande do Sul, Brazil) by the paper on *Spatial variation of layer charge in Melo bentonite deposit, Northern Uruguay. Implications on physical properties and organophilization*.
- Valentin Robin (University of Poitiers, France) by the paper on Authigenic smectite in *the Paleogene sandy sediments of the Chu-Saryssu Basin (Kazakhstan)*.

The Best Oral Student Presentation Award was offered by AIPEA to:

- Robert Koch (University of Trento, Italy) by the paper on *A unified model to refine nanocrystalline, layered and faulted material structure and microstructure from powder diffraction data*.
- Eliana Satiko Mano (Runner-up) (Polytechnic School of Sao Paulo University, Brazil ) by the paper on *Detailed studies of Fe-Ni smectites from lateritic Ni-ore from Niquelandia – GO – Brazil*.

- Sirle Liivamagi (Runner-up) (University of Tartu, Estonia) by the paper on *Neoproterozoic lateritic paleosol from Baltic Basin: weathering sequence and paleoclimatic interpretation*.

The Best Poster Student Presentation Award was offered by AIPEA to:

- Syafina Binti Mohol Ghazi (Hokkaido University, Japan) by the paper on *Uptake of radioactive cesium emitted from Fukushima Daiichi nuclear power plant by diatomaceous earth - with special reference to chemical form of cesium*.
- Gabriella Fazio (Runner-up) (University of Brasilia, Brazil) by the paper on *Phase quantification of clay minerals and carbonates from Sete Lagoas Formation by the Rietveld's method*.
- Aleksandra Deregowska (Runner-up) (University of Natural Resources and Life Sciences, Austria ) by the paper on *The contribution of clay minerals in the landslides occurrence within Austrian and Polish Flysch Formation*.

Given by the Italian Association for the Study of Clays (AISA) to notorious young scientists, the Novelli Prize was delivered to Dr. Marek Szczerba (Institute of Geological Sciences, Polish Academy of Sciences).

**Social Activities:**

In order to easy interchange among all participants, several social activities have been made available, such as:

- social dinner which took place on Wednesday July 10th;
- ice-break and farewell cocktails;
- music concert by the Youth Academy of the OPS Orchestra under direction of conductor Felipe Prazeres on Sunday July 7th;
- everyday lunch, coffee break and refreshments; and
- city tour in Rio de Janeiro, Angra dos Reis (Ilha Grande), Petrópolis and surroundings.

**Acknowledgements:**

AIPEA expresses its deep gratitude to:

- the organizers of XV ICC for their courage and persistence;
- the Sponsors and Exhibitors of XV ICC for making this event a memorable opportunity for interchange of science and industry;
- the several institutions for great support with buildings and services and by promotion of the event;
- to all participants of XV ICC for their work and to the chairs of symposium and sessions for dedication and time;

**Photo 5**: On behalf of AIPEA, David L. Bish and Jeanne B. Percival thank the organizers of XV ICC for their good work. From left to right Sylvia M. C. Anjos, Reiner Neumann, Edla M. B. Lima, Daisy B. Alves and Camila W. D. Anjos (photo courtesy of XV ICC).

**Photo 6 and 7**: David L. Bish (left) and Bruno Lanson (right) at their plenary lectures (photo courtesy of XV ICC).

**Photo 8**: Reiner Neumann and Sylvia M. C. Anjos deliver the award to Ailton L. Souza, winner of Clays and Art (photo courtesy of XV ICC).

**Photo 9**: Participants of field-trip 2 guided by Pedro V. Zalan at the top of the Corcovado Mountain and with the statue of Christ The Redeemer at back (photo courtesy of XV ICC).

Daisy Barbosa Alves
August / 2013

## 8. NATIONAL AND REGIONAL CLAY GROUPS

This section gathers all the reports sent by the AIPEA affiliated societies up to March 2013. It represents an effort to coordinate communication between all the National Clay Society members and the individual members of AIPEA. The extensive coverage that it offers was planned so that all of those interested in clay matters could have easy access to updated information. The aim is for it to constitute a key vehicle for communicating the activities of our member societies.

Together, AIPEA Website and AIPEA Newsletter are the principal tools that enable the fulfillment of the association main purpose which is the worldwide promotion of clay research and technology through international cooperation.

AIPEA would also like to expand its activities to countries without formal clay societies/groups. This initiative aims to convey information not easily available otherwise to the international communities and to encourage the formation of national clay societies in those countries where such societies have not yet been officially created. This can be provided alternatively by 'liaison-officers' who correspond to active clay scientists willing to contribute with news about clay activities in their countries.

This issue of AIPEA Newsletter has received reports from 15 affiliated societies / groups and some others from liaison-officers. We are very grateful to those who answered our call for cooperation. However reports from several traditional affiliated societies are still missing and we would like to encourage their representatives to publish their reports next year.

The readers will notice that the content of each report are particular from each society which brings together their national flavor. Some reports included many photos and we had to make a selection of them in order to keep the size of this edition easy to be distributed by digital means. So we wish you a pleasant reading.

Daisy Barbosa Alves
AIPEA Secretary-General

### ALGERIA
### ALGERIAN CLAY GROUP

**National activity and Cooperation**
Activities during 2012:

Algerian university and national industries

Scientific projects and students supervision (Engineers, Magister and PhD) on:

- Clay minerals characterization (Geology and deposition conditions)
- Problem during drilling (shale stability)

- Catalysts and adsorbents from clays
- Clays Problems in oil reservoir
- Organoclays preparation and uses
- Clays in Environment.
- Clays in Pharmaceuticals and cosmetics application
- Clays and building projects.

Activities proposed for 2013:

After the organization of the Third Maghrebian Symposium on Clays Minerals at Boumerdès University (Algeria) (http://smaiii20098.umbb.dz), the Algerian Clay Group members participate with Algerian Chemical Engineering Group (GAGEP: Groupe Algérien de Génie des Procédés) and Sonatrach National Oil Company in May 2013 of the organization of the Fifth Maghrebian Chemical Engineering Congress (COMAGEP'5: Congrès Maghrébin de Génie des Procédés).

The second project in 2013 is the preparation of the Algerian Clay Symposium. Many activities are proposed to continue our scientific activity and research program.

**International activity and Cooperation**

Many projects are taking place between Algerian university, research laboratories and others scientific research organization in Algeria and in Europe.

**Algerian Clay Group Members**

Council Members:

| | |
|---|---|
| President: | Mr A. Bengueddache (Oran, University) |
| General Secretary: | Mr M. Khodja (Sonatrach/ IAP Boumerdès) |
| Vice President: | Mrs H. Chemani (Boumerdès University) |
| Vice President: | Mr B. Touahri (Bental /ENOF Algiers) |
| Vice President: | Mr M. Belkadi (Sonatrach/CRD Boumerdès) |
| General secretary assistant: | Mr A. Bakhti (Mostaganem University) |
| General secretary assistant: | Mrs F. Kaouah (USTHB University, Algiers) |
| Treasurer: | Mr B. Boualem (USTHB University, Algiers) |
| Treasurer assistant: | Mr B. Adjabi (Faiencerie Algérienne, Algiers) |
| Treasurer assistant; | Mr K. Kherdjidj (Sonatrach/Exploration Boumerdès) |

Honorary Members:
Mrs Faiza Bergaya, CRMD Orleans France
Mrs Kheira Boumendjel, Sonatrach/Division Laboratoires Boumerdes-Algeria
Mr Mohamesd Djoua, Sonatrach/Drilling Division, Hydra Algeria

By Mohamed Khodja
March / 2013

**AUSTRALIA**
**AUSTRALIAN CLAY MINERALS SOCIETY**

Planning is underway for the 23rd biennial Australian Clay Minerals Conference. The Conference is to be held at the University of Western Australia located on the shores of the Swan River's Matilda Bay and approximately 5 km from the Perth CBD. The dates for the Conference are the February 3rd to the 5th of 2014 with a Wednesday field trip having a bauxite and mineral sands focus. The Conference is being design to provide the maximum interaction between delegates with the organizing Committee (headed by Professor Bob Gilkes) arranging high-quality accommodation for delegates at one of the University College.

February 2013 is going to be a busy time in Perth with the Australian Clay Minerals Conference being immediately followed by the 3rd Australian Regolith Geoscientists Association Conference that, in turn, is being followed by the Australian X-Ray Analytical Association Conference. Details of thee Conferences can be found at http://regolith.org.au and http://www.axaa.org respectively.

Further details of the Australian Clay Minerals Society including current office bearers, reports from past Conferences and details of our 2013 Conference can be found on the Society web site: http://www.clays.org.au

By Peter Self
March / 2013

**BELGIUM**
**BELGIUM CLAY GROUP**

Report not available. AIPEA has received notice that this group is no longer in activity.

**BRAZIL**
**BRAZILIAN CLAY GROUP**

The Brazilian Clay Group (GBA) has been much busy organizing the many activities of the XV International Clay Conference which will take place on July 7-11th in Rio de Janeiro City. Its many activities can be followed at www.15icc.org.

By Daisy Barbosa Alves
March / 2013

**CHINA**
**CHINESE CLAY MINERALS GROUP**

In China, clay scientists and technicians get together each year in several events, which could be organized by clay mineral researchers, journal publishers or associations concerning clay minerals. Pictures above show that one of clay scientists, Professor Chun Hui ZHOU from Advanced Materials & Sustainable Catalysis (AMSC Group) —A Chinese Clay Research Group, was invited to give a plenary talk on new uses of clay minerals at a conference on Science, Technology and Market of Industrial Minerals in October, 2012, which attract strong interests of clay industries in China. It is warmly welcomed to clay scientists and researchers from other countries to interact with Chinese counterparts in the Chinese events on clay minerals (Contact: chc.zhou@yahoo.com.cn)

**Photo 10**: Prof. Chun Hui Zhou from AMSC Group (photo courtesy of Chun Hui Zhou).

**Photo 11**: General view of the assistance of the conference on Science, Technology and Market of Industrial Minerals (photo courtesy of Chun Hui Zhou).

By Chun Hui Zhou
March / 2013

**CROATIA**
**CROATIAN CLAY GROUP**

The Croatian Clay Group was founded in 1999 in Zagreb, Croatia. It is active as a section within the Croatian Geological Society. The Group has 36 members, whose scientific and professional activity within the fields of mineralogy, geology, petroleum engineering,

chemistry technology, geotechnics or civil engineering are completely or partially connected with clays, i.e. clay and related minerals.

Very low budget funds for science in 2012 are an indirect reason for the low activity of Croatian Clay Group. Members of the group participated actively in the 6th Mid-European Clay Conference MECC`12 held in Průhonice, Czech Republic, where they were members of Local and International Scientific Committees.

**Photo 12**: Croatian participants of the 6th Mid-European Clay Conference (MECC 2012) organized in Průhonice,Czech Republic (photo courtesy of Nenad Tomašić).

Website of Croatian Geological Society is rearranged, and thus webpage of our group (http://www.geologija.hr/hr/odsjek_gline.php), which is part of the website, was changed too. English version of the web page is expected for this year. Electoral meeting of the Group scheduled for 2012 was postponed to 2013. Main activities planned for 2013 is organization of lectures given by group members covering different topics on clays and clay minerals.

**List of the Croatian Clay Group Officers (elected in 2008):**


President: Darko Tibljaš
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Secretary: Marta Mileusnić
Faculty of Mining, Geology and Petroleum Engineering,
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Pierottijeva 6
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Fax: +385 (0)1 4836 057


By Darko Tibljaš
March / 2013

**CZECH REPUBLIC**
**CZECH NATIONAL CLAY GROUP**

During 2012, the Czech National Clay Group (CNCG) published two numbers (48–49) of the "Informátor" bulletin in Czech language with information about clay science in the Czech Republic. The number 49 was published as book of abstracts from 6th MECC. Contributions in Informátor were reviewed. ISSN of printed version is 1802-2480; ISSN of internet pdf version is 1802-2499.

Two seminars were organized:

- The first one, anniversary seminar devoted to 90 years of Prof. RNDr. Jiří Konta, DrSc., was organized in Prague, Faculty of Natural Sciences, March 16th, 2012.

- The spring meeting was organized in Prague on June 21st. Two lectures were presented:
- 1-Martin Šťastný, Pavel Hájek: Rokytka, river of changes.
- 2-Vojtěch Kapsa: Journey to micro world (and back).

**6th Mid-European Clay Conference**
CNCG organized together with Charles University in Prague, Faculty of Mathematics and Physics and ITC Travel&Conference s.r.o. the 6th MECC in Pruhonice (September 4 – 9th, 2012) at Floret Congress centre, www.mecc2012.org
Plenary lectures presented during conference:

- Rocha, F. - Structural and mechanical properties of metakaolin and red mud based geopolymers
- Čapková, P. - Nanocomposites conducting polyaniline/clay
- Kadir, S. - Geology, mineralogy, geochemistry and genesis of hydrothermal kaolinite deposits within neogene volcanites of the Simav area, Kütahya (western Anatolia), Turkey
- Dohrmann, R. - Clays in radioactive waste disposal - overview and a typical bentonite buffer application in ÄSPÖ, Sweden
- Doušová, B. - Adsorption properties of iron riched clays
- Krupskaya, V. - Sedimentary environments at the Lomonosov Ridge (Arctic Ocean) during the Cretaceous-Paleogene time
- Huff, D.W. - Ordovician K-bentonites: issues in identifying and interpreting ancient tephras
- Komadel, P. - Can we affect the impact factors of clay journals?

8 plenary lectures, 58 oral and 66 poster presentations were presented and 141 delegates from 24 countries participated at 6th MECC. Three field trips were arranged to:

- Kyšice, Horní Bříza and Kaznějov;
- Moldavites mine; and
- Trilobites and Geology excursion through Prague centre.

Social program consisted of welcome party; tasting of Moravian wines and local cheeses; boat trip and conference dinner in Strahov monastery. We hope that all participants enjoyed their stay in Pruhonice.

Prof. Fernando Joaquim Tavares Rocha, Ph.D. (Portugal) became the Honorary Member of CNCG in the year 2012.

**Contemporary board of CNCG:**

| | |
|---|---|
| Chairman: | M. Pospíšil |
| Vice-chairman: | M. Šťastný |
| Treasurer: | Petr Kovář |
| Councillors: | S. Jarková; K. Melka; M. Holý and P. Praus |
| Representative of zeolite subgroup: | D. Koloušek |

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For further and detailed information, we recommend you to visit our webpage at www.czechclaygroup.cz

**Photo 13**: Participants of the 6th MECC in the main congress hall (photo courtesy of Miroslav Pospíšil).

**Photo 14**: Open plenary lecture of the 6th MECC by Prof. Rocha, nominated honorary member of Czech National Clay Group (photo courtesy of Miroslav Pospíšil).

**Photo 15**: Student best poster and best oral presentations ceremony in of the 6th MECC. Students from left: Inga Dušenkova, Valéria Bizovská, Anna Brtáňová, Ashley Ryan Hamilton, Mathias Köster, Andre Baldermann (photo courtesy of Miroslav Pospíšil).

By Miroslav Pospíšil
March /2013

**NETHERLANDS**
**DUTCH CLAY GROUP**

Report not available.

**FRANCE**
**FRENCH CLAY GROUP**

Last year, the annual report from French Clay Group (GFA) has arrived after the deadline of AIPEA Newsletter. It is shown now.

**9th Meeting of the French Clay Group (GFA, Groupe Français des Argiles)**

The 8th meeting of the French Clay Group was held in Paris on May 10-12th 2011 and dedicated to the memory of Henri Pézerat, past GFA president (1981-1984) who was a pioneer in the fight for the removal of asbestos from buildings and especially buildings of the University Pierre et Marie Curie in Jussieu. During the meeting two students grants were funded by French companies (Ephyla and GFA) to assist with the expenses.

**International Master in Advanced Clay Science**

The IMACS (International Master in Advanced Clay Science) is an integrated 2 years master programme delivered by five Universities:

- the University of Poitiers (France),
- the Technical University of Crete (Chania - Greece),
- the University of Aveiro (Portugal),
- the University of Ottawa (Canada), and
- the Federal University of Rio Grande do Sul (Porto Alegre – Brazil).

This programme is supported by the French Clay Group (GFA) and AIPEA (International Association for the Study of Clay Minerals). The programme was approved by the European Commission under a very competitive application scheme as an Erasmus Mundus Joint Master programme in July 2009. Erasmus Mundus is a cooperation and mobility programme in the field of higher education supported by the European Commission. This programme offers financial support for high-quality joint master courses, attractive scholarships / fellowships for both non-European and European student candidates and short-term scholarships for non-European and European academics to carry out research or teaching assignments as part of the joint Masters project.

IMACS inaugurated its first promotion in September 2010 at the University of Poitiers.

To have a taste of what the first students think about IMACS, just have a look on their blogs (http://yesweclay.blogspot.fr/?view=magazine). For 2011-2012, students coming from various nationalities (Venezuela, Nigeria, Ethiopia, Brazil, Pakistan, Croatia, Poland, and China) were selected. Some students are already titular of a master degree or inserted in a professional environment.

On September the 13th 2012, the graduate ceremony will be held in Poitiers.

**For further information, please contact:**

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Internet: http://www.master-imacs.org

By Jocelyne Brendlé
May / 2012

**GERMANY-AUSTRIA-SWITZERLAND**
**GERMAN-AUSTRIAN-SWISS CLAY GROUP**

Since 2008, the German-Austrian-Swiss Clay Group (DTTG) is a member of the MECC groups and holds their annual meetings within the MECC. The 6th MECC meeting in 2012 was organized by the Czech National Clay Group in Pruhonice (near Prague, CZ). On the occasion of this conference the DTTG awards Dr. Stephan Kaufhold (BGR Hannover) with the Karl-Jasmund-Prize. Furthermore, the DTTG members' assembly elected the new DTTG committee: Helge Stanjek, RWTH Aachen (president), Reiner Dohrmann, LBEG/BGR Hannover (treasurer), Michael Ploetze, ETH Zurich (secretary), and seven members for the advisory board.

The next MECC in 2014 will be organized by the DTTG (Dr. Reinhard Kleeberg, TU Bergakademie Freiberg) in Dresden (http://www.mecc2014.de/.

In 2012 the 6th Reynolds Cup took place. The results were presented at the annual CMS meeting in Golden/CO in July 2012. The DTTG was again one of the biggest participating groups and is now, winning the first (Michael Ploetze, ETH Zurich) and 3rd places (Reinhard Kleeberg, TU Bergakademie Freiberg and Robert Moeckel, Helmholtz Institute Freiberg). The most successful: 2002: 1st and 2nd; 2004 and 2006: 3rd; 2008: 2nd and 3rd; 2010: 3rd; and 2012: 1st and 3rd as well as in all years some more in the top ten.

The international DTTG-Workshop "Qualitative and quantitative analysis of clays and clay minerals" is organized every two years. The 5th workshop was organized by Drs. Katja Emmerich and Annett Steudel from Feb 25th to Mar 1st 2013 in Karlsruhe (Germany). The participants came from DTTG-countries but also from Belgium, Croatia, Poland, Russia, Sweden and UK. The next workshop is scheduled for 2015 again at the KIT in Karlsruhe (contact: annett.steudel@kit.edu).

In 2013 a DTTG-meeting will be organized by Prof. H.A. Gilg at the TU Munich from October 25th till 26th (contact: dttg2013.geo@tum.de). The DTTG will celebrate its 40 year anniversary at this meeting.

For further updated information: http://www.dttg.ethz.ch or contact Michael Ploetze, ETH Zurich, E-mail: www_dttg@web.ethz.ch.

By Michael Ploetze
March / 2013

**GREECE**
**GREEK COMMITTEE OF CLAY SCIENCE AND TECHNOLOGY CLAY GROUP**

Report not available. AIPEA has received notice that this group is no longer in activity.

**HUNGARY**
**HUNGARY CLAY GROUP**

Papers on clay mineralogy were presented in the period 2011-2012 in the sessions and meetings of the Clay Mineralogy Section and partly of the Mineralogy and Geochemistry Section of Hungarian Geological Society (HGS), held normally in Budapest (other localities and organizations are specially indicated).

**March 8th, 2011. Evaluation of the results of the 5th Mid-European Clay Conference held in Budapest, 2010**

- Dódony, I.: Crystal chemistry and structure of clay minerals.
- Dékány, I.: Surface phenomena of clay minerals: adsorption, intercalation and nanohybrid materials.
- Németh, T.: Environmental and medical aspects of clays.
- Kis, V.: Non-layer silicate clay minerals.
- Kristóf, J.: Advanced analytical methods of clay science.
- Szendrei, G.: General aspects of clay science.

**September 8-10th, 2011, Szeged. Conference on Petrology and Geochemistry (papers on clay mineralogy)**

- Nyilas, T., Czirbus, N., Kiss, K., Hetényi, M.: Rendzina soils on red clays in Aggtelek Karst area
- Raucsik, B., Rostási, Á.: Palaeo-environmental reconstruction of the Carnian (Late Triassic) basin of Bakony and Gerecse Mts., according to mineralogical and geochemical investigations.
- Máthé, Z.: Mineralogy and petrography of the Boda Siltstone Formation (Permian).
- Újvári, G., Varga, A., Raucsik, B., Kovács, J.: Variations of the intensity of the chemical weathering in the last 800 thousand years: mineralogy and geochemistry of the Paks loess–palaeosol sequence.

**September 12th, 2011**

- Kovács-Pálffy, P., Kónya, P., Földvári, M., Zelenka, T., Pécskay, Z.: Bentonitized rhyolite tuff beds in the Sarmatian limestone of the Tétény Plateau (south of Budapest).
- Viczián, I.: Clay minerals on Mars.

**November 14th 2011**

- Dódony, I., Kovács Kis, V., Németh, T., Cora, I., Pekker, P.: Crystal structure relations smectite-silica and illite-smectite
- Kis, V., Németh, T., Keresztes, M.: Nanocrystalline domains in volcanic glass: case study of the Tokaj pumice.

- Zilahi-Sebess, L.: Effect of clay content on the measurable geophysical parameters (conditions of clay indications).

**December 12th 2011. Reports on international conferences held in 2011, related clays**

- Kristóf, J.: EUROCLAY 2011, Antalya, Turkey.
- Dódony, I., Cora, I., Orbán, R.: New Methods to Explore Structure and Properties of the Nano World, Erice, Italy.
- Kovács Kis, V.: International Symposium on Metastable, Amorphous and Nanostructured Materials, Gijon, Spain.
- Balázs, R.: ISMOM 2011 - Interactions of Soil Minerals with Organic Components Conference, Montpellier, France.
- T. Biró, K.: EMAC 2011, 11th European Meeting on Ancient Ceramics, Wien, Austria.

On this meeting a new council of the Clay Group was elected for the period 2012-2015.

**April 19-21st, 2012, Miskolc. Joint Meeting of the 5th Mineral Sciences in the Carpathians Conference (MSCC) and of the 3rd Central European Mineralogical Conference (CEMC)**

On this joint conference a plenary lecture was given by:

- Tóth, E. and Weiszburg, G. T.: Asbestos: A review with special emphasis on natural Carpathian-Dinaric occurrences.

In the Section on Clay Mineralogy, 3 oral lections were given and 9 posters were shown. Environmental problems related to asbestos were specially emphasized.

**November 27th, 2012 (Soil Science Society, Section of Soil Mineralogy)**

- Füleky, Gy., Kalmár, J.: Soil mineralogy in the area of Bábolna and Dág (northern Transdanubia).
- Balázs, R., Németh, T., Szalai, Z., Sipos, P., Kiss, K., Bendő, Zs.: Mineralogy of hydromorphic soils at Ceglédbercel (Great Hungarian Plain).
- Németh, E., Bidló, A.: Preliminary results of the mineralogical investigation of soils on karst areas of Bükk Mts.

**December 17th, 2012. Reports on international conferences held in 2012, related clays**

- Dódony, I.: 6th Mid-European Clay Conference (MECC), September 4-9, 2012, Průhonice.

**New publication:**

- Földvári, M. 2011: *Handbook of thermogravimetric system of minerals and its use in geological practice*. – *Occasional Papers of the Geological Institute of Hungary*, vol. 213, Budapest. 180 p.

**Officials of the Hungarian Clay Group for the period 2012-2015:**

| | |
|---|---|
| Chairman: | Prof. Dódony, István<br>Department of Mineralogy, Eötvös University, Budapest<br>E-mail: dodony@t-online.hu |
| Secretary: | Kónya, Péter, Ph.D.<br>Hungarian Geological and Geophysical Institute,<br>Budapest<br>E-mail: konya.peter@mfgi.hu |
| Members of the Council: | Földvári, Maria<br>E-mail: foldvari.maria@mfgi.hu, foldvari56@t-online.hu<br>Kovács Kis, Viktória<br>E-mail: kis.viktoria@ttk.mta.hu<br>Kristóf, János<br>E-mail: kristof@almos.vein.hu, krja@cs.elte.hu<br>Németh, Tibor<br>E-mail: ntibi@geochem.hu<br>Raucsik, Béla<br>E-mail: raucsik@geo.u-szeged.hu<br>Szendrei, Géza<br>E-mail: szendrei@min.nhmus.hu<br>Tombácz, Etelka<br>E-mail: E.Tombacz@chem.u-szeged.hu |
| AIPEA liaison officer: | Viczián, István<br>E-mail: viczianif@gmail.com |

By István Viczián
March / 2013

**ISRAEL**
**ISRAELI SOCIETY FOR CLAY RESEARCH**

The Annual meeting of the Society for Clay Research took place on the first Sunday of Hanukkah October 9th, 2012 at The Robert H. Smith Faculty of Agri. Food and Environ., Hebrew University, Rehovot, Israel. For the time the Israeli Soil and Clay Research Societies held a joint annual meeting. More than 100 members attended the meeting. Twenty five talks were given in five sessions entitled:

- soil physics,
- measuring soil parameters,
- soil characteristics,
- clay mineralogy (5 talks) and
- environmental aspects in soil science.

The wife of the late Professor Arieh Singer donated money to present Arieh's work, soil profiles and clay structures, in the entrance of our department. This will be a great opportunity to expose clay science.

Let it be a fruitful year,

By Yael Mishael
March / 2013

**ITALY**
**ITALIAN ASSOCIATION FOR THE STUDY OF CLAYS**

**2012 Activities**

The main activity of the members of the Italian Clay Group (Associazione Italiana per lo Studio delle Argille - AISA onlus) in 2012 was mainly the presentation of research results at international and national conferences and the participation in research programs.

One of the AISA objectives is to try to establish good collaboration and research activities in the clay science field and improve the relations among all members. Therefore, we have implemented our website and improved communication between partners and the scientific community through the opening profile of the major social networks.

The general assembly and the Clay Day is another conduit for facilitating this aim. **The Clay Day 2012** took place in Naples (Italy) on February 22$^{nd}$, and has been devoted to research activities on clay and clay minerals, in which many members from all over Italy participated.

**Awards and grants**: two prizes were presented in 2012 to reward young researchers in the field of clay:

- The "Giovanni Novelli" prize for 2013 will be presented at the 15$^{th}$ International Clay Conference in Rio de Janeiro next July. Applications may be submitted by March 29$^{th}$, 2013. The competition is reserved to young scientists ($\leq$ 35) distinguished by their researches on smectites and their application, as a priority, or else on the industrial use of other clay minerals.
- The other prize intends to support the participation to the EMU School "Minerals at Nanoscale "(Granada, June 3-6$^{th}$ 2013), an initiative of the European Mineralogical Union. All information is available on our website www.aipea.it.

At the end of 2012 the AISA members were 71, among whom 53 ordinary, 8 juniors and 2 Institutions. There were also 9 Life members and 2 honorary members.

**Work Plan for 2013**

In 2013, we started with a commitment to make changes to the Statutes and By-Laws of the association, to allow AISA participation in research projects.

The executive members of AISA began to prepare a tender for the Dell'Anna award. Prize will be awarded to a young Italian researcher distinguished by his researches on clays and their application. It probably will be allocated to the next congress of the European Clay Groups Association (ECGA).

The **Clay Day 2013**, a one-day thematic meeting, has already been held in Pavia (February 28th 2013). It has been devoted to "Clays in innovative applications". After the oral presentations, the participants had the opportunity to visit the diagnostic laboratories of the Department of Science of the University of Pavia and meet researchers working in various areas of research.

**Meetings**:

- It is expected the participation of some AISA members to the next XV International Clay Conference, also to attend the awards ceremony in order to confer the Novelli prize to an Italian young researcher, a very significant endowment for AISA.
- The association will continue to sponsor all events (schools and conferences) in which its members are involved. In particular, in 2013 AISA will sponsor the 12th European Meeting on Ancient Ceramics (EMAC2013), to be hosted in Padova (Italy), September 19-21st 2013.
- Two new conferences are in progress; they will be organized by AISA, under the coordination of Dr. Saverio Fiore: DUST in 2014 and AMAM (Applied mineralogy & advanced materials) in 2015. These international conferences will take place in Italy, at the Nova Yardinia Resort in Castellaneta Marina (TA), after the positive feedback obtained for this location during the XIV ICC.

The DUST 2014 conference will be focused on the inorganic atmospheric particulate with wide-ranging scientific contributions: the techniques used for the study of the particulates, the impact on health and the preservation of monuments. Probable date: 7-13 June 2014. Short-term actions: opening of call for sessions and publication of the website.

By Maria Luigia Giannossi
March / 2013

**JAPAN**
**CLAY SCIENCE SOCIETY OF JAPAN**

## 1. Committee

The following officers were elected for the fiscal year 2012 and 2013:

| | |
|---|---|
| President: | Dr. Hirohisa Yamada, National Institute for Materials Science |
| Vice president: | Prof. K. Kuroda, Waseda University |
| | Prof. M. Nanjo, Tohoku University |
| Secretary: | Dr. T. Hatta, Japan International Research Center for Agricultural Sciences |
| Principal Editors: | Dr. M. Suzuki, National Institute of Advanced Industrial Science and Technology (Nendo Kagaku) |
| | Dr. M. Kawano, Kagoshima University (Clay Science) |

## 2. The 56th Annual Meeting

The 5$^{6th}$ annual meeting of the Clay Science Society of Japan was joined with 2$^{nd}$ Asian Clay Conference from September 6 to 8$^{th}$, 2012, at Seoul in Korea. It was principally organized by Distinguished Professor Jin Ho Choy. The conference with 212 attendees (93 Korean, 82 Japanese, 11 Chinese, 10 Pilipino, 6 Thai, 2 Indian, 2 Spanish, 2 English, 1 German, 1 American, 1Indonesian and 1 Malaysian) was successfully hold at Ewha Womans University. The conference program also included plenary lecture by Prof. A. Inoue (Chiba University) and Prof. Eduardo Ruiz-Hitzky (Material Science Institute of Madrid) and 19 invited lectures.

During the conference, Korean Clay Minerals Society was newly established. This establishment was definitely promoted by Distinguished Professor Jin Ho Choy and the organizing committees of 2$^{nd}$ Asian Clay conference at Korea.

## 3. Awards

The society presented awards to the following members at the occasion of 2$^{nd}$ Asian Clay conference at Seoul.

- Clay Science Society of Japan Award was given to M. Kawano, Kagoshima University.
- Distinguished Achievement Award was given to S. Tomura, National Institute of Advanced Industrial Science and Technology and M. Shishime, Volclay Japan, Co. Ltd.
- Young Scientist Award was given to S. Yokoyama, Central Research Institute of Electric Power Industry.
- Best Technological Award was given to S. Bandou, Sumitomo Seika Chemicals, Co. Ltd., K. Mizuno and M. Uehara, Railway Technical Research Institute, T. Matsumoto, Tochigi Prefectural Industrial Technology Center, and Y. Goto, Ryukoku University.
- Best Technological Award was given to K. Suzuki, T. Sato and T. Yoneda, Hokkaido University, and N. Iyi and H. Yamada, National Institute for Material s Science.

**4. Publication**

Clay Science Society of Japan publishes three issues of Nendo Kagaku (Journal of the Clay Science Society of Japan in Japanese), and three issues of Clay Science every year. In the fiscal year 2012, Vol. 51, No. 1, 2 and 3 for Nendo Kagaku, and Vol.16, No.1, 2 and 3 for Clay Science were published.

For further updated information: http://www.cssj2.org/index_e.html or contact Tsutomu Sato, Hokkaido University, E-mail : tomsato@eng.hokudai.ac.jp.

By Tsutomu Sato
March/2013

**NORDIC COUNTRIES**
**NORDIC SOCIETY FOR CLAY RESEARCH**

Report not available.

**POLAND**
**POLISH CLAY GROUP**

Report not available.

**PORTUGAL**
**PORTUGUESE CLAY GROUP**

Report not available.

**ROMANIA**
**ROMANIAN GROUP FOR THE STUDY OF CLAYS AND CLAY MINERALS**

Report not available.

**RUSSIA**
**RUSSIAN CLAY GROUP / COMMUNITY**

Russian Clay Group has 63 members. In 2012 the bi-annual Conference of the Russian Clay Group ("Clays 2012") took place June 5-8$^{th}$ in Pushchino (Moscow region). It was organized at the Institute of Physical-Chemical and Biological problems of Soil Science Russian

Academy of Sciences, the secretary of the conference was Dr. Tatiana Alekseeva. About 80 participants attended the meeting. The scientific program included the following sessions:

- C1. Crystallochemistry and mineralogy of clay minerals, methods of diagnostics and investigations;
- C2. Geology of clays, genesis and synthesis;
- C3. Physical, chemical and other properties of clays and clay minerals;
- C4. Geo-biological systems ( weathering crusts, soils, and paleosols); weathering as the global process; and
- C5. Clay minerals in oil and gas geology.

The plenary lectures have been done by the famous Russian scientists. Among them: Academician Alexey Rozanov (Paleontological Institute RAS), Dr. Boris Sakharov (Geological Institute RAS); Prof. Tatiana Sokolova (Lomonosov University, Moscow) *et al*.

The students and young scientists participated very actively in the meeting. The organizers found the possibility to grant the best presentations of young scientists. The following students have got grants:

- Anastasia Maltzeva (Institute of Physical-Chemical and Biological problems of Soil Science , Pushchino) for the talk "*The role of clay minerals in the synthesis and conservation of humic substances*" (first prize).
- Julia Rahmatullina (Institute of ecology , Kazan) for the poster "*Modification of the interstratified illite-smectite structures under the flooding of oil bearing layers*".
- Olga Dorzieva (Moscow State University) for the poster "*The effect of structural characteristics of kaolinite on the physical-chemical properties of kaolin clays*".

The abstracts have been published in the Book of Abstracts. The full information about the conference and electronic version of the Book are available on the site of Russian Clay Group (in Russian) at: http://claygroup-russia.psn.ru/

The III International conference "Nanotechoilgas- 2012" (whose Chair was Prof. Alexander Khavkin, a member of the Council of Russian Clay Group) took place October 30-31st at the Institute of Geology and Development of Fossil Fuels. Totally 70 oral presentations were given by participants from Russia, France, Israel and Germany. 2 plenary lectures and 8 talks were given on nanomineralogy and the role of clays in the oil displacement.

In the 2012 AIPEA Newsletter n.44 we already published the full information about the "The First Russian Clay School (Argilla Studium- 2012)" which was organized at the Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry (IGEM RAS), February 5-11th, 2012 by Dr. Boris A. Sakharov and Dr. Victoria V. Krupskaya. The main topic was the application of X-ray diffraction in clay minerals investigation.

**Photo 16**: "Clays 2012" at the Institute of Physical-Chemical and Biological problems of Soil Science (Pushchino, Russia) (photo courtesy of Tatiana A. Alekseeva).

**Photo 17**: The organizers of "Clays 2012" ( from left to right) : Dr G. Krinari, Dr T. Alekseeva, Dr A. Alekseev, Dr B. Sakharov, Dr D. Pinsky (photo courtesy of Tatiana A. Alekseeva).

**Photo 18**: A. Maltzeva (PhD) - the winner of the young scientists grant (photo courtesy of Tatiana A. Alekseeva).

The members of the Russian Clay Group participated actively in MECC 2012, September 4-9th 2012, Pruhonice. Totally 10 oral and poster presentations have been presented. The talks have been done by A. Alekseev, T. Alekseeva, V. Krupskaya, S. Lessovaya, L. Novikova, T. Zaitzeva and S. Zakusin.

By Tatiana V. Alekseeva
March / 2013

**SLOVAKIA**
**SLOVAK CLAY GROUP**

Main activities of the Slovak Clay Group (SCG) in 2012 are:

A member's meeting was held in Bratislava on June 19th 2012. The research activities of the members since the last SCG meeting (December 15th 2011) and plans for 2012 were discussed. In addition, new scientific equipments for clay analysis, financially supported by the European Regional Development Fund, were presented. They are located at the Institute of Inorganic Chemistry, Slovak Academy of Sciences (SAS) in Bratislava (www.uach.sav.sk), Faculty of Natural Sciences of Comenius University in Bratislava (www.fns.uniba.sk), the Geological Institute of SAS in Banská Bystrica (www.geol.sav.sk) and the Institute of Geotechnics of SAS in Košice (www.saske.sk/UGT). More information of the instruments is available on the web sites of these institutions.

The seminar "Men and Raw Materials" took place on October 30th 2012 at the Faculty of Natural Sciences, Comenius University in Bratislava. The lectures were devoted mostly to the characterization and utilization of non-metallic materials, mainly clays, from the Slovak deposits.

Two lectures given by colleagues from the Czech Clay Group: M. Valášková "Vermiculite with functional effects in nanomaterials" and S. Holešová "Antibacterial organo-vermiculites" were arranged by the SCG on November 27th 2012 at the Institute of Inorganic Chemistry, SAS.

The SCG members presented 16 contributions on the 6th Mid European Clay Conference held on September 4–9th 2012 in Pruhonice u Prahy, Czech Republic. Valéria Bizovská and A Anna Brtáňová (2nd and 3rd from the left, respectively) were awarded in the Student-Poster competition.

**Photo 19**: Student best poster and best oral presentations ceremony in of the 6th MECC. Students from left: Inga Dušenkova, Valéria Bizovská, Anna Brtáňová, Ashley Ryan Hamilton, Mathias Köster, Andre Baldermann (photo courtesy of Jana Madejová).

From July 2012 till October 2013, P. Komadel is serving as the President of the Clay Minerals Society, USA.

**SCG Council**:

| | |
|---|---|
| President: | Jana Madejová |
| Vice-president | Peter Komadel |
| Secretary | Iveta Štyriaková |
| Members: | Adrián Biroň and Peter Uhlík |

**Correspondence address**:
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By Jana Madejová
March / 2013

## SPAIN
## SPANISH CLAY SOCIETY

### Activities of the Spanish Clay Society (SEA) in 2012

1. The Spanish Clay Society (SEA) organized the ***Scientific Meeting SEM-SEA 2012*** with the Spanish Mineralogical Society (SEM). The event took place in Bilbao (Spain) from June 27 to 30$^{th}$, 2012. This corresponds to the 22$^{nd}$ meeting of the SEA. One hundred and fifty researchers participated in the meeting.

The program for the SEM-SEA 2012 Meeting included:

A) One-day workshop seminar on "Archaeometry and Cultural Heritage preservation: the contribution of Mineralogy and related sciences". The seminar took place on June 27$^{th}$ and was addressed by scientists of international prestige that had delivered seven master lectures. The aim of the seminar was to present and discuss on new perspectives and ideas about these topics, particularly for young scientists.

The seminar consists of the following lectures:

- "Archaeomineralogy and prehistoric artifacts and gemstones". Dr. Salvador Dominguez Bella, Universidad de Cadiz (Spain).
- "Trace element geochemistry and mineralogy for solving problems in provenance and production technologies of Pre-historic ceramics". Dr. Prudencio, Universidade Tecnica de Lisboa, Portugal.
- "Technology and provenance of French faience". Dr. Maggeti, Fribourg University, Switzerland.

- "Archaeometallurgy: the contribution of mineralogy". Dr. Artioli, Padova University, Italy.
- "Microanalysis of pigments in art works. Dr. Hradil, Institute of Inorganic Chemistry, Prague, Czedch Republic.
- "Lithic materials, coatings and finishes in architectural heritage. Dr. M. Vendrell, Universidad de Barcelona, Spain.
- "Binders in historical buildings: traditional lime in conservation". Dr. Rodriguez-Navarro, Universidad de Granada, Spain.

B) Scientific Sessions. The scientific sessions took place on June 28-29th featuring invited scientists who delivered plenary lectures on topics of general interest. Oral and poster presentations from all fields in Clays, Mineralogy, Petrology and Geochemistry were accepted for submission. Our main objective was to organize high-quality scientific sessions that became a platform for debate, exchange of ideas and new scientific collaborations. The following invited lectures were given:

- "La Mineralogía en el estudio del Patrimonio histórico". Dr. Marius Vendrell (Universidad de Barcelona).
- "Marine minerals as tracers of detrital provenance and transport agent". Dr. Nathalie Fagel (Université de Liège, Belgique).
- "Using clay to bioremediate oil spills". Dr. Lawrence Warr (Ernst Moritz Arndt Universitaet Greifswald, Germany).
- "Structure and Lithology of the oceanic crust: What do we know today?" Dr. Thierry Juteau" (Université de Bretagne Occidentale, Brest, France).

C) Geological excursions. One field trip was development in June 30th:

The Carranza Valley and its Geological Heritage. This excursion included a visit to karstic caves with helictites (Pozalagua), the banded dolomites of Ranero and an old underground Zn-Pb-F-mine (Matienzo).

The General Assembly of the SEA took take place during the meeting.

During the conference dinner, two prizes for Young Researchers were given to:

- Ana C. S. Alcântara (Instituto de Ciencias de Materiales de Madrid) for "Bionanocomposites Based on the Megamolecular Polysaccharide Sacran and Clay Minerals"; and
- Chiara Cappelli (Instituto Andaluz de Ciencias de la Tierra) for "Monitorization of the biotite alteration by Contrast Confocal Microscopy".

2. The SEA organized a four-day Field Trip from May 31st to June 3rd 2012 to visit the bentonite clay deposits located in Cabo de Gata (Almeria, SE Spain). The origin of these clays is related to the hydrothermal alteration of Tertiary calk-alkalin volcanic rocks.

The aim of the activity was to know the geological setting of the volcanic and bentonite outcrops, genetic processes and mineral characteristics. Fifteen people participated in the field

trip. The company Süd-Chemie Ibérica, S.L. facilitated the access to bentonite outcrops and open pits promoting a very interesting field trip.

**Photo** 20: Participants in the field trip to Bentonite clay deposits in SE Spain at the "Mirador de la Amatista" (photo courtesy of Blanca Bauluz Lázaro).

**Proposed activities of the Spanish Clay Society (SEA) for 2013**

- The SEA will organize two activities in 2013.
- A Scientific Meeting on November 15th 2013 in the Universidad Autónoma de Madrid (Madrid, Spain). The meeting will consist of invited lectures and poster presentations. Two Young researchers will be prized for their posters.
- A field trip to visit industrial clays in the NE of the Iberian Range (NE Spain). Two different sedimentary deposits will be visited: kaolinitic clays of the Lower Cretaceous (Teruel, Spain) and Tertiary sepiolite clays (Zaragoza, Spain).

By Blanca Bauluz Lázaro
March / 2013

**TUNISIA**
**TUNISIAN CLAY GROUP**

**Activity of the Tunisian Clay Group during 2012**

The Tunisian Clay Group (TCG) and the Laboratory of Useful Material Valorization (LVMU) of "National Center for Material Sciences, Borj Cedria Tunisia" organized the 4th Maghrebian Symposium on Clays Minerals, on March 21-23rd 2012, in Alhambra Hotel Hammamet, Tunisia.

The program was composed of: 6 plenary conference, 32 oral presentations, 56 posters on the following themes: clay geology, ceramics, geomedicine, clay adsorbant power, and methods of identification of clays. Its main activity was a roundtable at the closure of the meeting, attended by the conference participants on March 23rd 2012 at Alhambra Hotel Hammamet.

**Photo 21**: Participants to the 4th Maghrebian Symposium on Clays 21 to 23 March, 2012 (photo courtesy of Fakher Jamoussi).

**Photo 22**: Participants or the roundtable during the 4th Maghrebian Symposium on Clays 21 to 23 March, 2012 (photo courtesy of Fakher Jamoussi).

**TCG Committee Members:**

| | |
|---|---|
| President: | Fakher Jamoussi |
| Vice-President: | Nouri Hatira |
| Secretary General: | Mondher Hachani |
| Secretary: | Mounir Medhioub |
| Treasurer: | Kamel Jeridi |
| Members: | Hédi Ridha Chaftar |
| | Emna Fakhfakh |
| | Randa Ben Abdallah |
| | Béchir Moussi |

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By Fakher Jamoussi
March / 2013

## TURKEY
## TURKISH NATIONAL COMMITTEE OF CLAY SCIENCES

Report not available.

## UKRAINE
## UKRAINIAN CLAY GROUP

The activity of Ukrainian Clay Group (UCG) was initiated in 1949 in the Institute of Inorganic Chemistry of the National Academy of Sciences of Ukraine by academician Fedor Ovcharenko, famous for his studies of disperse systems, clays, colloids and surface phenomena. February 8th, 2013, was the Centenary of Fedor D. Ovcharenko's birth, born near the small town Sumy in Ukraine. The scientist is the author of over 800 scientific publications and many books, including:

- "Hydrophility of clays and clay minerals" (1961),
- "Palygorskite in the Drilling" (1966),
- "Adsorption on clay minerals" (1975), and
- "Kaolinites of Ukraine: A Handbook" (1981).

The Conference "Natural disperse minerals", devoted to his memory, is planned to be held in Kiev, in October 2013.

During the year 2012, the activities of the members of different groups of UCG included:

1. **Analytical determination of cation exchange capacity in natural and modified Ukrainian bentonites** (Ljudmila Nadel).

   The detailed analytical studies of cation exchange capacity (CEC) of Dashukovskii bentonites in natural and modified forms were done. The investigations were based on data of quantitative X-ray diffraction and fluorescent analysis. The effects of preliminary sonication on the value of CEC were established. Errors of CEC determination was of the order of 2% and reflected the presence of impurity minerals. The express technique of CEC determination was proposed.

2. **Application of analytical centrifugation for prediction of dead-end filtration of mineral suspensions** (Maksym Loginov).

   The work was focused on the use of the data obtained by centrifugal consolidation of mineral suspensions for prediction of dead-end filtration. A new method for analysis of centrifugal consolidation data was proposed and application of this method for determination of pressure dependencies of the particle volume fraction, specific filtration resistance and consolidation coefficient of mineral sediments (calcium carbonate, and bentonite) in the low and moderate pressure region (<100 kPa) was discussed.

3. **Electro-dewatering of drilling sludge with liming and electrode heating** (Maksym Loginov).

The optimization of processing parameters during dewatering of bentonitic drilling sludge by combination of flocculation and electro-filtration was analyzed. The two-sided laboratory filter cell with constant distance between the electrodes was used for electro-filtration. The impact of lime concentration and current density on electrokinetic properties and permeability of the initial sludge, as well as on electro-filtration rate, filtrate quality, final dryness of the filter cake and energy consumption, were investigated. The role of different effects (structuring of bentonite particles, electroosmotic transfer, electrophoresis, ohmic heating, and electrolysis) in the electro-filtration of limed sludge was also analyzed.

4. **Structure formation by collagen dermis, modified by montmorillonite dispersions** (Olena Mokrousova).

   The processing of leather skin by modified montmorillonite allowed improvement of the structure of collagen on meso- and macro-levels, improvement of hygienic properties of the finished leather and reduction of its stiffness. The compositions for leather filling by minerals and emulsion fattening were developed.

5. **Dispersions of carbon nanotubes and organomodified clay platelets in cholesteric liquid crystals** (Longin Lisetski).

   Comparative studies of cholesteric liquid crystal dispersions of different anisotropic nanoparticles, namely, rod-like carbon nanotubes (CNT) and plate-like exfoliated particles of organo-modified laponite and montmorillonite (MMT) clays, were carried out. The characteristic properties under study were selective reflection spectra of the cholesteric planar structure and optical transmission changes in the points of transition to the isotropic phase. Effects of clay platelets upon selective reflection spectra were much smaller as compared to CNTs, which is in agreement with assumption that dispersed plate-like particles should stabilize the planar cholesteric texture.

6. **Peculiarities of Liquid Crystal – Carbon Nanotube Dispersions Doped with a Small Amount of Nanoparticles of Synthetic Clay** (Oleg Yaroshchuk).

   It was demonstrated that addition of a small amount (0.1 wt. %) of organomodified laponite (LapO) nanoplatelets results in drastic changes in dielectric and electro-optical characteristics of the suspensions of carbon nanotubes (CNTs) in nematic liquid crystal 5CB. Addition of LapO leads to the absence of classical percolation of conductivity and dielectric constant, as well as reduction of Frederiks threshold and significant growth of contrast ratio of the 5CB-CNTs samples.

7. **Percolation behaviour of polypropylene glycol filled with multiwalled carbon nanotubes and Laponite** (Eduard Lysenkov and Valerii Klepko).

   The percolation behavior of the hybrid composites of polypropylene glycol (PPG) filled by multiwalled carbon nanotubes (MWCNTs) and laponite RD (Lap), or by MWCNTs and organo-modified laponite (LapO), was studied by wide angle X-ray diffraction (XRD), microscopic image analysis, and electrical conductivity measurements. Cetyltrimethylammoniumbromide (CTAB) was used as an organo-modifier of laponite. The Lap and LapO were found to have rather different affinity to PPG. XRD data have evidenced finite PPG integration inside Lap and complete exfoliation of LapO stacks in

a PPG matrix. In PPG+MWCNT composites containing no Lap or LapO, increase of MWCNT concentration above the critical value Cp~0.4 % wt resulted in percolation. The value of the percolation threshold, Cp, was practically the same for hybrid PPG+MWCNT+Lap composites. However, it noticeably decreased (Cp~0.2 % wt) in PPG+MWCNT+LapO materials. The observed behavior of the percolation threshold may be attributed to the effects, exerted by LapO on the size of MWCNT aggregates, state of their dispersion and homogeneity of their spatial distribution.

These scientific works were presented at different nano and colloid-related conferences:

- 31st European Congress on Molecular Spectroscopy 26 – 31st August, 2012, Cluj-Napoca, Romania;
- International summer school: Nanotechnology from fundamental research to innovations, August 26th-September 2nd, Bukovel, Ukraine;
- POLYSOLVAT-9, 9th International IUPAC Conference on Polymer-Solvent Complexes & Intercalates, September 11-14th, 2012, Kiev, Ukraine;
- 13th International Symposium on Colloidal and Molecular Electrooptics, ELOPTO 2012, September 2-5th, 2012 in Gent, Belgium;
- 24th International Liquid Crystal Conference Mainz, August 19-24th, 2012;
- Singular Optic 2012. September 15-21st, Sebastopol, Crimea, Ukraine;
- 15th International Conference "Polymeric Materials" September 12-14th, 2012 Halle (Saale);
- International Conference "Laser Optics" June 25-29th 2012, in St. Petersburg, Russia;
- XII Christmas conference on liquid crystals, December 25-26th, 2012, Institute of Physics, NAS of Ukraine, Kyiv;
- III International Scientific Conference "Nanostructured Materials 2012: Russia- Ukraine-Belarus", Saint Petersburg (Russia), November 19-22nd.

Three PhD and one Dr. Science (Olena Mokrousova) dissertations were successfully defended in 2012. The following institutes of the National Academy of Sciences of Ukraine were involved into the studies: Institute of BioColloid Chemistry, Institute of Physics, Institute of Macromolecular Chemistry, Kiev National University of Technology & Design, Mykolaiv National University named after V.O. Sukhomlynskiy, Institute for Scintillation Materials of STC "Institute for Single Crystals".

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| | |
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| Eduard Lysenkov, PhD | Mykolaiv National University named after V.O. Sukhomlynskiy 24, Nikolska str., Mykolaiv, 54030, Ukraine<br>E-mail : ealisenkov@mail.ru |
| Longin Lisetski, Prof. | Institute for Scintillation Materials of STC "Institute for Single Crystals", NAS of Ukraine, 60 Lenin Ave., 61001 Kharkiv, Ukraine<br>E-mail : lisetski@isma.kharkov.ua |


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By Nikolai Lebovka
March / 2013

## UNITED STATES OF AMERICA
## THE CLAY MINERALS SOCIETY (NORTH AMERICA) - CMS

The Clay Minerals Society's (CMS) 49$^{th}$ Annual Meeting was held in Golden, Colorado from 7 – 11$^{th}$ July 2012. The theme of the conference was "shales and imposters". The chair of the meeting was Manika Prasad. Dr. Akihiko Yamagishi, Professor, Toho University, Funahashi, Japan, received the highest award of The CMS, the Bailey Award. His lecture was entitled "Steriochemistry and molecular recognition on a clay surface". Dr. Jeffrey Post, Research Curator, Smithsonian Institution, Washington, D.C., received the Marion L. And Chrystie M. Jackson Mid-Career Clay Science Award and presented a lecture entitled "Unraveling manganese oxides–Tales from the dark side of mineralogy". The Pioneer Clay Science Award and The CMS Brindley Lecture/Award were not presented this year.

There were a total of 58 presentations (including award/lecture presentations, oral presentations, posters, and plenary lectures). The oral and poster sessions were divided into the following areas:

- Pore systems (5 + 1 poster)

- General session (4 + 6 posters)
- Clays and health (9 + 2 posters)
- Clay diagenesis and organic maturity (4 + 3 posters)
- Multi-scale modeling of clays and layered materials (11)
- Soil clays and environmental science (6 + 1 poster)
- Industrial clays (5 + 2 posters)

The pre-meeting field trip was entitled "Unconventional petroleum systems in the Denver basin" and included hydraulic fracturing production.

**Photo 23**: President David Laird presenting Akihiko Yamagishi with the Bailey Award (photo courtesy of Steve Guggenheim).

**Photo 24**: President David Laird presenting Jeffrey Post with the Jackson Mid-Career Award (photo courtesy of Steve Guggenheim).

The latest CMS Workshop volumes are available for purchase (member prices are discounted from the listed price, list price shown). Order forms and other information may be obtained at http://cms.clays.org/publications.html Recent Workshop volumes are:

- Volume 17, Clays of Yellowstone National Park, CMS Workshop Lectures, $30 (Paul Schroeder, ed.), 94 p.

- Volume 16, Carbon stabilization by clays in the environment: Process and characterization methods, CMS Workshop Lectures, $30 (David A. Laird and J. Cervini-Silva, eds.), 135 pp.
- Volume 15, Clay-based Polymer Nano-composites, CMS Workshop Lectures, $30 (Kathleen A. Carrado and Faiza Bergaya, eds.), 278 pp.
- Volume 14, Methods for Study of Microbe-Mineral Interactions (2006), CMS Workshop Lectures, $30 (Patricia A. Maurice and Leslie A. Warren, eds.), 166 pp.
- Volume 13, The Application of Vibrational Spectroscopy to Clay Minerals and Layered Double Hydroxides (2005), CMS Workshop Lectures, $26 (J. T. Kloprogge, ed.), 285 pp.
- Volume 12, Molecular Modelling of Clays and Mineral Surfaces (2003), CMS Workshop Lectures, $26 (J. D. Kubicki and W. F. Bleam, eds.), 229 pp.
- Volume 11, Teaching Clay Science (2002) CMS Workshop Lectures, $26.00 (A. Rule and S. Guggenheim, eds.), 223 pp.

The Clay Minerals Society publishes a Clay Glossary, and this is located on the CMS website.

The 50th Annual Meeting of The Clay Minerals Society will be held October 6-10th 2013 in Urbana-Champaign at the University of Illinois. See the CMS website at: http://www.clays.org/

By Steve Guggenheim
February / 2013

**UNITED KINGDOM**
**CLAY MINERALS GROUP OF THE MINERALOGICAL SOCIETY (GB and Ireland)**

**Meetings in 2012**
We see joint meetings with other groups as being a cost effective way of raising the Group's profile within the geoscience community especially, in the BSRG case below, with the developing interest in shale gas.

The Group was involved in two meetings in 2012:

**British Zeolites Association Meeting, Chester, June 2012**
The 2012 meeting of the British Zeolite Association was held at the University of Chester in northwest England. There were contributions from a variety of fields (zeolite, microporous and mesoporous materials science, including synthesis, structure, applications, characterisation, catalysis and computational studies). One session was built around the overlap between clay minerals and zeolites and included the George Brown Lecture by George Christidis, Technical University of Crete, Greece, on "***Smectites and zeolites: genesis in similar geological environments yields unique and intriguing properties***". We hope to be able to develop these overlap activities further in future.

**British Sedimentological Research Group Meeting, Dublin, December 2012:**
As in 2011, the CMG supported a session at the BSRG AGM meeting. The 2012 meeting was held at University College Dublin. The session was well advertised by the conveners, as was reference to the CMG; our participation was welcomed and appreciated. The session was titled 'The Glory of Mud' and attracted 5 speakers including one keynote talk of half hour duration ("***Intrabed" turbidity currents: a new type of sediment gravity flow associated with soft muddy substrates*** - Baas *et al*.).

An audience of approximately 125-150 people was present; good questions to the speakers indicating a high level of direct interest. The 2013 meeting is in Hull at approximately the same time of year. CMG will be involved again.

**Committee:**

| | |
|---|---|
| Chairman: | John Adams (john@treviles.com) |
| Secretary: | Simon Kemp (sjk@bgs.ac.uk) |
| Treasurer: | David Wray (david.wray@greenwich.co.uk) |
| Members: | Chris Breen |
| | Chris Greenwell |
| | Steve Hillier |
| | Chris Jeans |
| | Caroline Kirk |
| | Harry Shaw |
| | Nick Tosca |
| | Craig Williams |
| | Jeff Wilson |

John Adams and Simon Kemp
January / 2013

## 9. NOMENCLATURE COMMITTEE - 2012

**Report of the AIPEA Nomenclature Committee for AIPEA Newsletter.**

Committee members include: S. Guggenheim (Chair), F. Bergaya, M.F. Brigatti, E. Galan, V. Drits, M.L.L. Formoso, T. Kogure, H. Stanjek, *ex officio*: J. Adams, J. Stucki.

From January, 2010 until recently, the Nomenclature Committee has been discussing (1) abbreviations of clay and clay mineral terms to be used in journals and (2) specific terms that need clarification in clay science.

S. Guggenheim, Chair, AIPEA Nomenclature Committee
February / 2013

## 10. OBITUARY - JOSE M. SERRATOSA (1924-2012)

Famous Spanish clay scientist, Prof. **José María Serratosa** passed away at November 22nd 2012 at the age of 88. According to the extensive records of Prof. Victor Drits [(1)] and Dr. Eduardo Ruiz-Hitzky [(2)], Prof. Serratosa was born in Ronda (Malaga, Spain), graduated in Chemistry at the University of Granada (1946) and became Assistant Professor of Inorganic Chemistry. He accepted a fellowship to study with Professor J. Th. Overbeek at the University of Utrecht and he defended his PhD dissertation at the Complutense University of Madrid (1953).

From 1953 until 1990 he worked at the National Research Council of Spain (CSIC). From 1977 to 1979 he served as Vice-Director General of the Ministry of Education and Science of Spain, which made him responsible for the science policy of the Spanish Government. Four new Institutes of Material Science were established during this administration in Barcelona, Madrid, Sevilla, and Zaragoza [(1)]. He was the founder and first director of the Materials Science Institute of Madrid (ICMM) in the period of 1986-1990. Until his death, he was nominated emeritus Professor and Honorary Director of this prestigious institution [(2)].

Author of more than one hundred publications, several important scientific achievements can be highlighted [(1,2)]:

- First to use infrared spectroscopy to determine the orientation of OH groups in phyllosilicates, showing that the orientation of hydroxyls differs dramatically between dioctahedral and trioctahedral clay minerals.
- Pioneer in the application of solid state Nuclear Magnetic Resonance to structural study of phyllosilicates and zeolites and, in particular, for the determination of the distribution of tetrahedral Si and Al in these minerals.
- Provided new insight into the structural mechanism of kaolinite-to-mullite phase transformation, in particular the origin of the exothermal peak at 980°C, related to the presence of penta-coordinated Al.
- Made great contributions into the knowledge of the physicochemical and surface properties of clay minerals, including: the arrangement and mechanisms of interaction of water molecules, organic ions, and other molecules in the interlayer volume of layer silicates and in the tunnels and channels of sepiolite.
- Promoter of basic studies on fibrous clay minerals (sepiolite) because of their large deposits in Spain.

Prof. Serratosa was an enthusiastic clay scientist and recognized member of the world clay science community. A perusal at the previous editions of AIPEA Newsletter shows that Prof. Serratosa dedicated great attention and interest to AIPEA and to the Spanish Clay Society (SEA). On this regard, he made contributions in many activities, such as:

- Editor in chief of the 1972 International Clay Conference proceedings;

- Responsible for the annual report about the activities of the SEA for AIPEA Newsletter during many years;
- AIPEA Councillor for three periods (1969-1972, 1975-1978 and 1978-1981);
- President of the Spanish Clay Society (1974–79);
- AIPEA Vice-President (1981-1985);
- AIPEA President (1989–93);
- Nominated as AIPEA Fellow in 2005.
- Received the Marilyn and Sturges W. Bailey Distinguished Member Award of the Clay Minerals Society, in 2010.

Prof. Serratosa was an outstanding example of a combination of successful clay scientist and of a conscious public man dedicated to the promotion and development of scientific research on national and international scales. He is survived by his wife Mercedes, sons José and Luis, daughters Cristina and Rocío, sons-in-law, daughters-in-law, nine grandchildren and a multitude of colleagues, friends and admirers around the world.

By Daisy Barbosa Alves
May / 2013

(1) Drits, V. José Maria Serratosa - 2010 recipient of the Marilyn and Sturges W. Bailey distinguished member award. *Clays and Clay Minerals*, vol. 58 (4): 585-586, 2010.
(2) Ruiz-Hitzky, E. Obituary Jose M. Serratosa (1924-2012). *Applied Clay Science*, vol. 72: 211-212, 2013.

## 2013

### 37th INTERNATIONAL CONFERENCE AND EXPO ON ADVANCED CERAMICS AND COMPOSITES

January 27th-February1st, Daytona Beach, Florida, USA
Organizer: The American Ceramic Society
Contact: Sujanto Widjaja
Phone: +1-650-846-6027
E-mail : widjajas@corning.com
Internet: http://ceramics.org/meetings/37th-international-conference-and-expo-on-advanced-ceramics-and-composites

### 5TH INTERNATIONAL WORKSHOP ON QUALITATIVE AND QUANTITATIVE ANALYSIS OF CLAYS AND CLAY MINERALS

February 25th - March 01st, Karlsruhe, Germany
Organizer: German Clay Group (DTTG)
E-mail : annett.steudel@kit.edu
Internet: http://www.dttg.ethz.ch/workshop2013.html

### RESEARCH IN PROGRESS 2013

March 26-27th, 2013 Durham, UK
Convenor: Chris Greenwell
Internet: http://www.minersoc.org/cmg-rip-2013.html

### 49TH. ANNUAL SYMPOSIUM OF REFRACTORY CERAMICS DIVISION OR ACS

March 27-28th, 2013, Saint Louis, Missouri, USA
Organizer: The American Ceramic Society - RCD Division
Internet: http://ceramics.org/dates-deadlines/st-louis-sectionrcd-49th-annual-symposium

### 11ÈME COLLOQUE ANNUEL DU GFA

April 9-11th, 2013, Ivry-sur-Seine, France
Chair: Maguy JABER (LRS)
Phone: + 01 44 27 41 35
E-mail : maguy.jaber@upmc.fr
Internet: http://gfa2013.free.fr/

**III BRAZILIAN SYMPOSIUM ON METALLOGENY**
June 2-5th 2013, Gramado (RS), Brazil
Chair: José Carlos Frantz (UFRGS)
Contacts: Specialità Eventos
Rua Professor Carvalho de Freitas, 535
Bairro Teresópolis - Porto Alegre/RS – Brazil
Phone: (+51) 3231.0311
E-mail: metalogenia@specialitaeventos.com.br
Internet: http://www.ufrgs.br/sbm/index.html

**23RD NORTH AMERICAN CATALYSIS SOCIETY MEETING - NAM23**
June 2-7th, 2013, Louisville, Kentucky, USA
Contact: Jennifer Whiting
E-mail : jennifer@meetingsolutionsinc.com
Internet: www.NAM23.org

**2nd ANNUAL WORLD CONGRESS OF ADVANCED MATERIALS – wcam2013**
June 5-7th, 2013, Grand Trustel Aster Suzhou, China
Executive Chair: Xiaodan Mei
Contact: Ms. Tina Wang
BIT Congress Inc.
East Wing, 11F, Dalian Ascendas IT Park,
No. 1 Hui Xian Yuan,
Dalian Hi-tech Industrial Zone,
LN 116025, P. R. China
Phone: 0086-411-84799609-833
Fax: 0086-411-84795469
E-mail : tina@wcamcon.com
Internet: http://www.bitconferences.com/wcam2013

**20TH WORLD CONGRESS OF SOIL SCIENCE**
June 8-13th, 2013, Jeju, Korea
Organizers: Korean Society of Soil Science and Fertilizer & International Union of Soil Sciences
Fax: +82-2-566-6087
E-mail : wcssjeju@people-x.com
Internet: http://www.20wcss.org/

**MINERALS FOR LIFE: OVERCOMING RESOURCE CONSTRAINTS**
June 17-19th, 2013, Edinburgh, UK
Organizer: Mineralogical Society of Great Britain and Ireland

E-mail : kevin@minersoc.org
Internet: http://www.minerals-for-life.org/

**11th INTERNATIONAL COUNCIL FOR APPLIED MINERALOGY – ICAM2013**
July 5-13th, 2013, Mianyang, China
Contacts: Dr. Zhao Xueqin, Dr. Dai Qunwei or Dr. Sun Shiyong
Phone/Fax: +86-816-2419569
E-mail : 2013-icam@vip.163.com
Internet: http://www.icam2013.org/index.asp

**15TH INTERNATIONAL CLAY CONFERENCE (15ICC)**
July 7-11th, 2013, Rio de Janeiro, Brazil
Organizers: Brazilian Clay Group (GBA) on behalf of the *Association Internationale pour l'Étude des Argiles* (AIPEA)
Contact: Dr. Reiner Neumann, Secretary
CETEM - Centre for Mineral Technology
Avenida Pedro Calmon, 900 - Ilha da Cidade Universitaria
21941-908 - Rio de Janeiro RJ
Brazil
E-mail : info@15icc.org or rneumann@cetem.gov.br
Internet: www.15icc.org

**17TH INTERNATIONAL ZEOLITE CONFERENCE**
July 7-12th, 2013, Moscow, Russia
Organizers: International Zeolite Association (IZA) & Russian National Zeolite Association (RNZA)
Contact: Dr. Liudmila I. Rodionova
Phone/Fax.: +7 495 939 35 70
E-mail : org@izc17.com
Internet: http://www.izc17.com/

**68TH ABM INTERNATIONAL CONGRESS**
July 30th – August 2nd, 2013, Belo Horizonte, Minas Gerais, Brazil
Organizer: Associação Brasileira de Metalurgia, Materiais e Mineração
Contacts: Erika Akashi - erika@abmbrasil.com.br
Patrícia Rônel - patricia.ronel@abmbrasil.com.br
Phone: (55 11) 5534-4333 Fax: (55 11) 5534-4330
Internet: http://www.abmbrasil.com.br/congresso/2013

**XXII INTERNATIONAL MATERIALS RESEARCH CONGRESS**
August 11-15th, 2013, Cancun, Mexico
Organizers: Materials Research Society
Phone: + 724-779-3003
Fax: + 724-779-8313
E-mail : info@mrs.org or webmaster@mrs.org

**7th INTERNATIONAL CONFERENCE ON ADVANCED VIBRATIONAL SPECTROSCOPY –ICAVS7**
August 25-30th., 2013, Kobe, Japan
Chair: Prof. Yukihiro Ozaki
Phone: +81-(0)3-3508-1250
Fax: +81-(0)3-5283-5952
E-mail : reg-icavs7@convention.co.jp
Internet: http://www2.convention.co.jp/icavs7/index.html

**GOLDSCHMIDT 2013 CONFERENCE**
August 25-30th, Florence, Italy
Chair: Bernie Wood
E-mail : helpdesk@goldschmidt2013.org

**EUROFILLERS 2013**
August 25-29th, 2013, Bratislava, Slovakia
Organized by: Mária Omastová
Ivan Chodák
Polymer Institute SAS
Dúbravská cesta 9
845 41 Bratislava, Slovakia
E-mail : eurofillers2013@savba.sk
Internet: www.eurofillers2013.sav.sk

**21ST GENERAL MEETING OF THE INTERNATIONAL MINERALOGICAL ASSOCIATION - IMA 2013**
August or September, 2013, Gauteng, South Africa
Contact: Scatterlings Conference & Events
Carolyn Ackermann (www.soafrica.com and caro@soafrica.com)
Phone: +27 11 463 5085 Fax: +27 11 463 3265
E-mail : info@ima2014.co.za
Internet: http://www.ima2014.co.za/

**30TH IAS MEETING OF SEDIMENTOLOGY**
September 2-5th, 2013, Manchester, UK
Organized by: International Association of Sedimentologists (IAS)
Information: Dr Merren Jones
School of Earth, Atmospheric and Environmental Sciences
Williamson Building
Oxford Road
The University of Manchester
Manchester, M13 9PL
United Kingdom
Phone: + 44 (0)161 275 3943 (Direct)
Fax: +44 (0)161 306 9361
E-mail: merren.jones@manchester.ac.uk
Internet: http://www.sedimentologists.org/meetings/ims

**CLAYS, CLAY MINERALS AND LAYERED MATERIALS - CMLM2013**
September 11-15th, 2013 - St Petersburg, Russia
Organized by: Dr. Victoria Krupskaya and Dr. Tatiana Zaitseva
Phone: +7 (499) 230-82-96 Fax: +7 (495) 951-15-87
E-mail : krupskaya@ruclay.com
Internet: http://2013.ruclay.com/

**12TH EUROPEAN MEETING ON ANCIENT CERAMICS (EMAC2013)**
September 19-21st 2013 - Padova (Italy)
Contact :Lara Maritan
Phone: +39 049 827 9143
E-mail : congress.emac2013@unipd.it
skype: emac2013unipd
Internet: http://emac2013.geoscienze.unipd.it/index.html

**50TH CMS ANNUAL MEETING**
October 6-10th, 2013, Urbana, Illinois, USA
Contact: Joseph W. Stucki, General Chairman, jstucki@illinois.edu , +1 217-333-9636
Steve Guggenheim, Program Chairman, xtal@uic.edu , +1 312-996-3263
Stephen P. Altaner, Field Trips Chairman, altaner@illinois.edu , +1 217-244-1244
Internet: www.clays.org

**1ST INTERNATIONAL CONFERENCE ON RHEOLOGY AND MODELING OF MATERIALS - IC-RMM1**
October 7-11th, 2013, Miskolc-Lillafüred, Hungary

Contacts: Prof. Dr-habil László A. GÖMZE (chair)
E-mail : femgomze@uni-miskolc.hu
icrmm1.2013@gmail.com
Phone: +36 307 432 714 Fax: +36 46 565 103
Internet: http://www.ic-rmm1.eu

**XIV BRAZILIAN GEOCHEMICAL CONGRESS & LATIN AMERICAN SYMPOSIUM ON GEOCHEMICAL MAPPING**
October 13-18 th, 2013, Diamantina, Minas Gerais, Brazil
Contact: Eduardo Paim Viglio
Internet: http://www.sbgq.org.br/

**ANNUAL MEETING OF DTTG**
October 25-26th, 2013, Munich, Germany
Contact: Dagmar Hossfeld
Phone: +49 (89) 289 – 25851
E-mail : d.hossfeld@tum.de
Internet: http://www.eng.geo.tum.de/dttg2013/

**2014**

**23RD BIENNIAL AUSTRALIAN CLAY MINERALS CONFERENCE**
February, 3–5th, 2014, Perth CBD, Australia
Chair: Prof. Bob Gilkes

**3RD AUSTRALIAN REGOLITH GEOSCIENTISTS ASSOCIATION CONFERENCE**
Internet: http://regolith.org.au

**AUSTRALIAN X-RAY ANALYTICAL ASSOCIATION CONFERENCE**
February, 9-13th, Perth, WA, Australia
Chair: Vanessa Peterson
Phone:+ (02) 9717 9401 Fax: + (02) 9717 3606
Internet: http://www.axaa.org

**51ST ANNUAL MEETING OF THE CMS**
May 17-21st, 2014, College Station, TX, USA

**DUST 2014 INTERNATIONAL CONFERENCE ON PARTICULATE MATTER**

June 7-13th 2014, Castellaneta Marina, Italy
Contact: Saverio Fiore

**GOLDSCHMIDT CONFERENCE**
June 8-13th, 2014, Sacramento, CA, USA
Chair: Paul Renne
E-mail : helpdesk@goldschmidt2014.org

**23RD. CONGRESS AND GENERAL ASSEMBLY OF THE INTERNATIONAL UNION OF CRYSTALLOGRAPHY**
August 5-12th, 2014, Quebec, Canada
Internet: http://iucr2014.org

**21ST GENERAL MEETING OF THE INTERNATIONAL MINERALOGICAL ASSOCIATION – IMA2014**
September 1-5th, 2014, Gauteng, South Africa
Organizers: Dr. Sabine Verryn, Dr. Desh Chetty and Dr. Craig Smith
Phone: +27 11 463 5085 Fax: +27 11 463 3265
E-mail: info@ima2014.co.za
Internet: www.ima2013.co.za

**7TH MID-EUROPEAN CLAY CONFERENCE - MECC2014**
September 16-19th, 2014, Radebeul, Germany (nearby Dresden)
Conference Chairs: Dr. Reinhard Kleeberg, kleeberg@mineral.tu-freiberg.de
Prof. Dr. Helge Stanjek, helge.stanjek@cim.rwth-aachen.de
Organizer: Martin Singer
Phone: +49 (0)3641 31 16 310 Fax: +49 (0)3641 31 16 243
E-mail : martin.singer@conventus.de
Internet: www.conventus.de

## 2015

**6TH INTERNATIONAL MEETING: CLAYS IN NATURAL AND ENGINEERED BARRIERS FOR RADIOACTIVE WASTE CONFINEMENT**
March 23-26th, 2015, Brussels, Belgium

**APPLIED MINERALOGY & ADVANCED MATERIALS (AMAM 2015)**
Contact: Saverio Fiore

**EUROCLAY 2015**
July 5-10th, 2015, Edinburgh, United Kingdom
Organizers: European Clay Group Association & Clay Minerals Group of the Mineralogical Society of Great Britain & Ireland, The Clay Minerals Society and the International Natural Zeolite Association
Chair: Steve Hillier
Internet: http://www.minersoc.org/euroclay.html

**25TH GOLDSCHMIDT CONFERENCE**
August 16-21st, 2015, Prague, Czech Republic
Organizers: European Association of Geochemistry & Geochemical Society
Internet: http://goldschmidt.info/2015/

One of the principal aims of AIPEA is to stimulate and excite excellent young clay scientists. Under ideal circumstances, this is achieved by face to face interaction between these young scientists and more established clay scientists at the International Clay Conferences (ICC) that, as you all know, take place every four years.

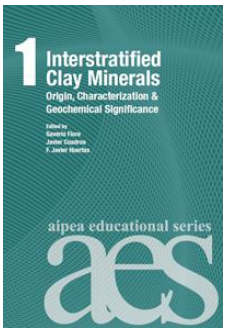
One of the activities associated with the 14th International Clay Conference, held in Italy in June 2009, was the inaugural AIPEA School for Young Scientists (ASYS). This short course, entitled *Interstratified Clay Minerals: Origin, Characterization and Geochemical Significance* was two days long, and delivered in a workshop format.

Unfortunately, it is not always possible for every young clay scientist to attend the International Clay Conference or the associated ASYS workshops. Consequently, AIPEA is delighted to introduce and welcome a new initiative - the **AIPEA Educational Series (AES)**. The first contribution to this occasional series is the collection of the lectures presented at the ASYS 2009 held on 13-14th June at the University of Bari (Italy), just before the 14th ICC.

The book, edited by Saverio Fiore, Javier Cuadros and F. Javier Huertas, is an overview and update on the main issues related to interstratified clay minerals, with a clear educational scope. It is accessible to students, providing both the basics and the latest information on the topics listed and including key literature references. It should be clearly stated that the volume is not intended to address the controversial issues that inhabit the world of mixed-layer clay minerals but seeks to collate the ideas and knowledge that expert scientists offered to those, young and not so young, who participated in the ASYS 2009.

The volume consists of the following chapters:

1. **Introduction to Mixed-Layer Clay Minerals** (J. Cuadros, S. Fiore and F.J. Huertas)
2. **Crystal-Chemistry of Mixed-Layer Clays** (J. Cuadros)
3. **Identification and Characterization of Mixed-Layer Clay Minerals by means of XRD of Oriented Clay Mounts** (A. Plançon)
4. **Formation Mechanisms of Mixed-Layer Clay Minerals** (A. Meunier)
5. **Identification and Characterization with Microscopic Methods** (F. Nieto and X. Arroyo)
6. **Identification and Characterization of Interstratified Clay Minerals with Spectroscopic and other Classical Methods** (P. Komadel and J. Madejová)
7. **Interstratified Clay Minerals in the Weathering Environment** (R.E. Ferrell, Jr., P. Aparicio and J. Forsman)
8. **Evolution of Mixed-Layer Clay Minerals in Prograde Alteration Systems** (Jan Srodon)




The price of the volume (ISBN: 978-88-7522-097-6) is €30.00 (international shipping included). To order a copy, please go to the AIPEA website (www.aipea.org).

AIPEA Council strongly supports this new venture and its members are enthusiastic about new additions to the series. However, it is important to note that we do not envisage that the Educational Series will be limited to the printed form; CD-ROM, DVD and a host of other formats will be employed in order to deliver the content in the most appropriate manner.

Christopher Breen, AIPEA President
Saverio Fiore, Chair, 14th ICC, 2009

## 13. AIPEA MEMBERSHIP APPLICATION FORM

Becoming member of AIPEA is recommended to everybody interested in clays and clay minerals. At the moment, the main mean of communication among all members of this association is its website (www.aipea.org). There, all information is concentrated and made available to all AIPEA members, such as updated information from many events that are being organized around the world besides other information that might be of general interest.

The rules of acceptance of new members are defined in the AIPEA Statutes and By-Laws (http://www.aipea.org/statute.html), as follows:

***Statutes:***
***"II. MEMBERSHIP***
*3. a) AIPEA may accept as members individuals (individual members, who may also be life members), institutions and companies (corporate members), and nationa1 or regiona1 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 ... 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..."*

***By-Laws:***
*"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..."*

To facilitate the admission of new members, AIPEA made available the Membership Application Form at its web page http://www.aipea.org/downloads/aipea_membership_application_form.pdf. Those interested in being part of this organization should fill it out, print, sign and mail it, accompanied by the appropriate membership fee (as international money order), to the AIPEA Treasurer:

**Dr. Jeanne B. Percival (jperciva@nrcan.gc.ca)**
**c/o Geological Survey of Canada**
**601 Booth Street**
**Ottawa, Ontario, CANADA K1A0E8**

aipea

# Association Internationale pour l'Etude des Argiles

## MEMBERSHIP APPLICATION FORM

Family Name _____ Given Name _____

Title _____ Phone _____ Fax _____

Institution _____

Mailing Address _____

Email _____

Type of membership ---------- Amount of dues ---------- for ------ years

Your Society _____

*If you are an individual member of an affiliated Society, give the name of the Society*

Date _____ Signature _____

## CHANGE OF ADDRESS NOTICE

Family Name _____ Given Name _____

New Institution _____

New Mailing Address _____

New Phone _____ New Fax _____

New email _____

Date Effective _____

Please mail dues as an international money order to the AIPEA Treasurer
Dr. Jeanne B. Percival (jperciva@nrcan.gc.ca)
c/o Geological Survey of Canada
601 Booth Street - Ottawa, Ontario, CANADA K1A0E8

Fees: $30.00USD/4-year individually; $15.00USD/4-year student or retiree; $100.00USD/4-year corporate sponsor. Note: Sponsoring Societies pay dues on behalf of their members. To send electronically, please contact Treasurer by email.