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HOW PERSONAL DATA ARE COLLECTED
AIPEA collects personal data under limited circumstances. Most common are when an individual:
• Becomes a member of AIPEA;
• Participates as a speaker, author, or similar capacity;
• Purchases a product;
• Subscribes to a publication; or
• Is or becomes a member of a National Clay Group which is affiliated to AIPEA.

HOW PERSONAL DATA ARE PROCESSED
Personal data of individuals may be used for limited purposes. Among them are:
• Membership administration;
• Provision of member benefits and opportunities;
• Delivery of products and services;
• Development of directories;
• AIPEA Newsletter and listserver.

LEGAL BASIS FOR COLLECTING AND PROCESSING PERSONAL DATA
There are several legal bases for AIPEAs collection and processing of personal data:
• For the legitimate interests of AIPEA, including the several uses listed above;
• To perform a contract;
• Based on consent; and
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THIRD PARTIES WITH WHICH PERSONAL DATA MAY BE SHARED
AIPEA may share member lists (name and email address) to affiliated societies who are organizing conferences.

SITE OF PROCESSING OF PERSONAL DATA
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PERSONAL DATA AUTOMATICALLY COLLECTED
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DATA RETENTION
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SAFEGUARDS
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INDIVIDUAL RIGHTS REGARDING PERSONAL DATA
Individuals generally have the right to access their own personal data and to request that AIPEA correct any errors or incompleteness in their own personal data. The contact information provided below should be used for these purposes. There is also a right to request deletion of personal data. Such requests also should be directed to the designated contact.

DESIGNATED CONTACT
Inquiries regarding this privacy notice or other privacy concerns should be directed to:
Peter Ryan
Secretary General of AIPEA
276 Bicentennial Way, Middlebury College
Middlebury, Vermont, USA
Tel. +1 802-443-2557
E-mail: secretary@aipea.org

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DATA PROTECTION POLICY FOR AIPEA MEMBER LISTS
27-August-2018

Dear clay community! We all have to face the new situation caused by the SARS-CoV-2 virus. Important clay meetings organized by our National Clay Groups were aimed to be performed around the world in 2020 (https://aipea.org/conferences), including two in Asia: 4th World Forum on Industrial Minerals (China), and the 4th Asian Clay Conference (Thailand); North America: 57th annual meeting of the CMS in Richland, WA, USA; and in Europe: 10th MECC in Poland. Local organizing committees are following the global risk assessment by the World Health Organization of the COVID-19 pandemic and most of these meetings have to be postponed or shifted to online (or are being monitored closely as in the case of the 4th Asian Clay Conference and Eurosoil 2020 in Geneva, Switzerland). The important 8th Clay radwaste meeting in Nancy, France has just been postponed into 2021 as well. Take care to check updates at the meeting websites.

In April 2020 the ICC organizers started the call for thematic sessions for the ICC-17 which will be held in Istanbul (Turkey) in 2021 (see more information inside this newsletter and on the aipea website).

Welcome to our renewed website, the place where you found this 2019 AIPEA Newsletter. AIPEA seeks to serve you as a platform for worldwide clay research. In Paris at Euroclay we discussed with the representatives of the National Clay Groups how this can be achieved. Our plan is to host as many National Clay Group websites as possible at www.aipea.org, at least the basic information. These webpages shall be linked to the ICC-17 website and these meetings organized by our National Clay Groups.

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without formal clay societies/groups. We would like to learn if new or revitalized societies / groups are in activity and willing to cooperate with AIPEA in the promotion of Clay Science.

**NCGs/Website/listserver/newsletter/Elements**: In 2020 we plan to encourage the formation of new national or regional clay groups (NCGs), the revitalization of “sleeping” ones, and the affiliation of existing active clay groups. The new candidates should fill the form available at the AIPEA website (www.aipea.org) and send their application to secretary@aipea.org. Meanwhile most of our affiliated societies contributed to our 52nd Newsletter. We encourage all national society representatives to respond promptly to our Secretary-General’s and Treasurer’s requests for information. Please take some time to check if your society / group has effectively sent report to AIPEA. If not, I would like to encourage you to contact your representative and reinforce the importance of doing this small gesture of international cooperation. AIPEA continues to publish reports in Elements magazine as a powerful means to communicate with the mineralogical and geochemical community. In 2019 we used parts of our Newsletter reports to inform the global mineralogical community about our worldwide activities. The next such collection is in press in Elements. Please let Prof. Peter C. Ryan, our Secretary-General, or me know if you have information that deserves the attention of the scientific societies. We can include it on our six-month report in this journal. AIPEA also continues to be an affiliated society to the International Union of Geological Sciences (IUGS) and provides information for the IUGS bulletin, another excellent way to communicate with scientific societies all around the world and to integrate AIPEA and clay research into international geological activities.

**Registration of AIPEA**: In 2018 we started an initiative to register AIPEA as a non-profit society with great support from our Treasurer Alberto López Galindo. This has required editing of our Statutes and By-laws. In 2019 Past President Saverio Fiore made it possible for AIPEA’s first electronic voting using a CNRS platform. We can be proud that this was a fully secret voting and members supported legalizing AIPEA as a registered society in Spain. The benefit is that we can vote not only every 4 years but also in-between ICC meetings.

With best wishes

Reiner Dohrmann
April 2020
Becoming a 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 (www.aipea.org/statutes.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 national or regional societies (Affiliated Societies) with an interest in clay research or technology.

b) Application for individual or corporate membership shall be made in writing to the ... 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 www.aipea.org/membership.html. Those interested in being part of this organization should fill it out and mail it to the AIPEA Treasurer, who will send information of how to pay the annual fee.

**AIPEA Officers and Council**

The AIPEA Council has been elected during the 16th International Clay Conference at Granada (Spain), in July 2017. The Officers and Councillors who will work for AIPEA during 2017-2021 are as follows:

**AIPEA Executive Officers for 2017-2021**

- **Dr. Reiner DOHRMANN, President**
  Technical Mineralogy, Sedimentology
  State Authority of Mining, Energy and Geology (LBEG)
  Federal Institute for Geosciences and Natural Resources (BGR)
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  Phone: +49 511-643 2557
  Email: president@aipea.org

- **Prof. Jocelyne BRENDLE, Vice President**
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  CNRS UMR 7361
  3 b rue A. Werner - 68093 Mulhouse Cedex - France
  Phone: +33 (0)389536885
  Email: jocelyne.brendle@uha.fr

- **Dr. Saverio FIORE, Past President**
  Microminerals, Health & Environment Research Group,
  Head Institute of Methodologies for Environmental Analysis
  National Research Council of Italy
  c/o Department of Earth & Geoenvironmental Sciences
  Via Orobona, 4 - 70125 Bari -Italy
  Phone: +39 080 5442618
  Email: saverio.fiore@cnr.it

- **Prof. Peter RYAN, Secretary General**
  Middlebury College
  Department of Geology
  McCardell Bicentennial Hall 429 - Middlebury, VT 05753 - USA
  Phone: +1 802 443 2557
  Email: pryan@middlebury.edu

- **Dr. Alberto LOPEZ GALINDO, Treasurer**
  Instituto Andaluz de Ciencias de la Tierra, Director
  CSIC - Universidad de Granada
  Phone: +34 958 230 000 ext. 190212
  Fax: +34 958 552620
  Email: alberto@ugr.es

**AIPEA Council Members for 2017-2021**

- **Prof. Georgios CHRISTIDIS, Councillor** (2nd term)
  School of Mineral Resources Engineering
  Technical University of Crete
  73100 Chania - Greece
  Phone: +30 38210 27622 - Fax: +30 38210 37888
  Email: christid@nerd.tuc.gr

- **Dr. Victoria KRUPSKAYA, Councillor** (2nd term)
  Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry Russian Academy of Science
  119017, Stroizmennyi per., 35 - Russian Federation
  Tel: +7 (499) 230-82-96, +7(926) 819-63-98; Fax: +7 (495) 951-15-87
  Email: krupskaya@ruclay.com

- **Prof. Makoto OGAWA, Councillor** (2nd term)
  Department of Chemical and Biomolecular Engineering
  Institute of Energy Science and Engineering
  Vidyasirimedhi Institute of Science and Technology
  Rayong 21210 - Thailand
  Email: makoto.ogawa@vistec.ac.th

- **Dr. Jana MADEJOVÁ, Councillor** (1st term)
  Institute of Inorganic Chemistry
2021

8th International Conference on Clays in Natural and Engineered Barriers for Radioactive Waste Confinement
June 14th – 17th, Nancy, France
https://www.clayconferencenancy2020.com/

17th INTERNATIONAL CLAY CONFERENCE – ICC 2021
July, 12th -16th, 2021, Turkey
icc.aipea.org

Prof. Dr. Asuman TÜRKMENOGLU
Representative of 17th ICC
Middle East Technical University (METU)
Department of Geological Engineering
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06800 Çankaya, Ankara - Turkey
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Microminerals, Health & Environment Research Group,
Head Institute of Methodologies for Environmental Analysis
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Dr. Jeanne B. PERCIVAL
Chair Teaching Committee
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Email: jeanne.percival@canada.ca
Recent and Upcoming Meetings

2020

4th Asian Clay Conference
June 7th – 10th, Pattaya, Thailand

57th Annual Meeting of the Clay Minerals Society (CMS)
June 15th – 19th, Richland, Washington, USA
https://pnnl.cvent.com/CMS2020

Goldschmidt 2020
June 21st – 26th, Honolulu, Hawaii
https://goldschmidt.info/2020/

Eurosoil 2020
August 24th – 28th, Geneve, Switzerland
http://www.eurosoil2020.com

GeoHealth 2020
September 1st – 5th, Bari, Italy
http://www.geohealth-scientists.org

4th World Forum on Industrial Minerals (WFIM-4) & AIPEA Short Course – 2020
October 17th – 20th, Chi Zhou City, Anhui, China

AIPEA Website

The AIPEA Website (https://www.aipea.org) continues to be the most important means of communication for the international community dedicated to clays and clay minerals. It provides extensive information of international scope about many aspects of AIPEA and the clay sciences, thus fulfilling the important role of helping AIPEA fulfill its main purposes.

The AIPEA website provides dynamic and continuous announcement of activities directly related to clay sciences. General information about the organization of AIPEA can also be easily found, including: mission, purposes, organization, statutes and by-laws, membership, council, publications, newsletters, 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 several National Clay Groups (NCG) websites as well as to the International Union of Geological Sciences (IUGS), to which AIPEA is affiliated. It also presents all volumes of the AIPEA Newsletter in a searchable way (a few specimens are missing or incomplete and we expect to have contribution to fill in these gaps). Please inform us if errors are noticed so that we can make the proper corrections.

Back to our theme… Many relevant technical activities around the world are continuously announced through the website, updated by the AIPEA Webmaster, Dr. Savério Fiore. It offers a long list of events (conferences, courses, projects, etc.) in a complementary page (http://www.
aipaea.org/conferences.html). This list can also be found in the traditional way, at the end of this newsletter.

The AIPEA website provides a link for payment of the AIPEA annual fee by credit card or PayPal account. Regular members are encouraged to pay quadrennial fees (equivalent to 4-years) in order to benefit for reduced fees to participate in events organized by AIPEA, such as International Clay Conferences (or those endorsed by AIPEA), and to be included in the AIPEA member-list, receiving continuous news from the international clay community. Access can be found at http://www.aipaea.org/membership.html.

AIPEA fees for individual members who do not belong to any AIPEA Affiliated Society are:
- Full professional: $30.00 USD (per 4-years).
- Student: $15.00 USD (per 4-years).

AIPEA fees for corporate sponsors are: 100.00 USD (per 4-years).

New candidates to become AIPEA Individual Members should download the membership application form at http://www.aipaea.org/membership.html and make the payment using the mentioned specific link. After filling the form in, please send it both to the AIPEA Treasurer (treasurer@aipea.org) and President (president@aipea.org). Please notice that students must prove their status through an official document provided by their university.

Members of AIPEA Affiliated Societies are also AIPEA members, as their dues are paid by their national or regional clay groups / societies. However, to benefit from the same advantages as those of AIPEA individual members, these groups /societies must provide yearly the corresponding payment. Please check with your society/group if you find that the annual payment to AIPEA has not been made.

Applications from National or Regional Clay Societies / Groups wishing to become affiliated to AIPEA shall be made to the secretary-general by addressing the e-mail secretary@aipea.org. The candidates must download the “Affiliation Form for National Clay Groups” at http://www.aipaea.org/membership.html and furnish the requested relevant information. The proposal will be submitted to the AIPEA Council and, if approved, the Society shall become affiliated on payment of the appropriate membership fee. The fees are $3,75 USD/year per full member and $2.50 USD/year for each student.

We encourage all AIPEA members and other interested individuals to undertake a systematic perusal of the contents of the AIPEA website in order to become updated with the many opportunities that are available around the world. Several technical events related to clays and clay materials and their applications take place continuously. Please remain in contact with us by sending news of relevant activities and events to the AIPEA Webmaster (webmaster@aipea.org) and to the AIPEA Secretary-General Dr. Peter Ryan (secretary@aipea.org).

Finally, we would like to stress that AIPEA has dedicated most investment on keeping its website continuously updated. This is important in order to fill AIPEA’s mission to share all information available on past and future activities with clay scientists around the world. We would recommend that the same disposition be adopted by all AIPEA Affiliated Societies. Also, it is desirable that English versions be available in order to disseminate information to a greater number of clay scientists.

Peter Ryan
Secretary General, AIPEA
April 2020

As reported by the incoming Secretary, the funds available for our activities were (July 2, 2019) €6224.85. As some of you know, ECGA received economic contributions from the organizers of EuroClay and from national groups (as membership fee). As for the contributions from EuroClays, the last one was received in 2007 (Portugal). As for other incomes, on the early 2000s, thanks to the diffusion of internet and to the AIPEA Newsletter, ours was no longer printed; from that time, the membership fee was cancelled. In other words, from the documents I got from past Officers, it seems that ECGA didn’t receive financial support since 2011. Therefore, viable solutions to have a minimal budget for paying awards, editorial and web initiatives will be discussed in the next council meeting.

The Agreements with AIPEA allowed us to have, finally, our website at a very low cost. Its address is: www.ecga.aipea.org. We have now to fill in it with “historical” information and upcoming initiatives; I think that it will be ready in a few months. Any suggestions and proposals of cooperation are welcome. A new web-project is on the way: we are planning a forum area where representatives of the European clay groups (ECGs) will discuss and vote on Council proposals. The aim is to stay in touch with the ECGs and to have an archive of initiatives adopted by the Officers and Council.

Saverio Fiore
President, ECGA
April 2020
ECGA
EUROPEAN CLAY GROUP ASSOCIATION

Dear European clay scientists,

It is really a pleasure to address you with a few lines as incoming President of ECGA, the European Clay Groups Association, and to provide you some information on recent activities and on future projects and ideas.

This is the first time that a report on activities of our association is published in the AIPEA Newsletter. This has been possible thanks to the initiative of the previous ECGA Officers (President: Jean Luis Robert; Secretary: Miroslav Pospíšil) who, at the beginning of 2017, decided to submit the request of affiliation to AIPEA crowning the efforts started in 2012 by the previous Officers (President: Peter Komadel; Secretary: Reiner Dohrmann). Now, as an AIPEA affiliated society, we can reach a larger audience than previously when the information was disseminated throughout the national representatives.

The European clay groups that comprise ECGA (last update: July 2019) are based in the following countries: Algeria, Croatia, Czechia, France, Germany-Austria-Switzerland, Hungary, Israel, Italy, Latvia, Poland, Portugal, Russia, Spain, Slovakia, Tunisia, Turkey, United Kingdom-Ireland, Ukraine (*: associated national groups).

Usually the Council have a meeting every 2 years (during the International Clay Conference and EuroClay) and, therefore, we should have our next meeting in Istanbul (July 2021). However, it is my wish to have more frequent talks with national representatives and it will be done using Skype meeting or, as I will detail below, using an internet forum.

The last Council meeting was held in Paris, at the Pierre & Marie Curie University on 2 July, room #44-54, 12:50 pm. Algeria and Hungary informed the Secretary about their absence to the meeting that was attended by the following representatives:

- Algerian Clay Group
- Clay Minerals Group (UK and Ireland)
- Croatian Clay Group
- Czech National Clay Group
- German-Austrian-Swiss Clay Group (DTTG)
- French Clay Group (GFA)
- Italian Clay Group (AISA)
- Hungarian Clay Group
- Israel Society of Clay Research
- Latvian Clay Science Society
- Polish Clay Group
- Portuguese Clay Group (APA)
- Russian Clay Group
- Spanish Clay Group (SEA)
- Slovak Clay Group
- Tunisian Clay Group
- Clay Science Society - Turkey (CSS)
- Ukrainian Clay Group

The minutes (prepared by the past ECGA Secretary, Miroslav Pospíšil), the program proposed by the incoming President, and the Russian proposal will be soon available on the website (http://ecga.aipea.org/).

EuroClay 2019 was held in Paris and, as expected, was a success. The meeting was organised by the Group Francaise des Argiles (GFA) in cooperation with The Clay Minerals Society (CMS). Maguy Jaber, Bruno Lanson, Erwan Paineau and their outstanding local committee did

In 2019 AIPEA achieved an ambitious goal: To involve the whole community in voting regarding the process of establishing AIPEA as a non-profit scientific society registered in Spain. Voters strongly approved of this necessary process: 202 ballots were cast, with the following result: YES (174 votes), NO (8 votes) and ABSTAIN (20 votes). 86% of votes were in favour of this motion, with only 4% opposed. The fully secret vote was enabled by Belenios (a CNRS platform) and can be applied to future e-votes. The most important benefit is that the Council can ask for voting when it is necessary and not only at the General Assembly (i.e., every 4 years during the International Clay Conference). There were some difficulties in reaching all the members because some receiving servers considered as spams the messages sent by aipea.org, thus implying that messages were not delivered. We cannot solve this problem but you can: If the message is in your Spam Folder you should add the email addresses associated to aipea.org and aipea.net domains to your white list or address book. If the message(s) is not in that folder, then you should ask your IT administrator to unblock the two domains.

AIPEA website was completely restructured: it is now a “multisite” containing 23 third levels for each of the national clay groups (NCGs) that are affiliated to AIPEA. These would not be intended to replace existing websites, many of which are very well developed. The purpose of each NCG having a sub-domain hosted at www.aipea.org is to provide a template (www.template.aipea.org) so that consistent information is available for all NCGs. The sub-domain contains a link to the NCGs own home page/webpage as well as some basic information, including society officers, contact information and images. Information will be posted and updated by the webmaster of the NCG. Directing traffic to aipea.org will lead to increasing the website(s) search engines rank and visibility: A benefit for the Clay Science community!

There will be also the possibility to host an NCG website under aipea.org domain at very convenient cost.

Another third level, maybe the most important one, has been built-up: www.icc.aipea.org. It is the official webpage of the International Clay Conference (ICC) that will...
host information for all future ICCs. The ICC has also an own logo that will be the hallmark of our meeting. It has been donated by Digilabs, an Italian graphic and editorial company.

Since 2013 we have a dormant Twitter account (@aipea.org). The number of clay scientists who are using this social media increased and maybe it is time to communicate to you all by tweeting.

The next web project is to create a forum for discussing issues between members of the Council and Committees, as well as between NCGs representatives. The basic idea is to have all the discussions e-stored for the AIPEA archives. The work is in progress and it should be ready in a couple of months.

Lastly but not least, we have 5 list serves (talk, council, members, ind.members, ncg) running under the domain <listname>@aipea.net. Except for <talk> the others are restricted to the AIPEA Officers/Council. Official email addresses linked to the aipea.org domain are: president@, vicepresident@, treasurer@, secretary@, and webmaster@aipea.org.

Saverio Fiore
AIPEA, Webmaster
March 2020

USA
THE CLAY MINERALS SOCIETY - CMS

It’s been a busy year for the Clay Mineral Society. Our primary focus has been on the transition of our journal, Clays and Clay Minerals, to publication by Springer. Since marketing is a major effort, Springer can reach out to potential audiences that CMS is unable to do. Before Springer, we had 130 library subscriptions plus 400+ GeoscienceWorld institutional subscribers. With Springer we already have 104 individual library subscribers with an as-yet unknown number of consortial subscribers. The impact factor is expected to increase. Future workshop notes may become included in the journal, but this is still under discussion. From a financial perspective, the potential revenue loss from exit contracts with GeoscienceWorld and Ingenta in addition to the Springer royalty will not be known until March 2020.

In the CMS office there have been changes in some of the MSA personnel. Alex Speer & Gordon Nord are retiring and are being replaced by Ann Benbow and Gloria McParland, respectively. CMS has a contract with MSA that includes office rental. CMS membership trends are following the decline in mineralogy groups in general. Fortunately, CMS membership has stabilized around 300 for the last 3 years. CMS is currently activating its contacts on social media in order to effectively communicate with younger members and potential members.

CMS continues to develop one of its principal income providers, the Source Clay collection. For example, we are currently working with an Australian group to ship two tons of a dried, homogenized, milled to 2 micron, Arumpo Ultraben bentonite product.

The Reynolds Cup competition (http://clays.org/Reynolds.html), named after Bob Reynolds for his pioneering work in quantitative clay mineralogy and his great contributions to clay science, was established in 2000. Unlike other round-robin events that used well-ordered, high-symmetry phases or splits from natural samples with unknown mineral composition, the Reynolds Cup competition utilizes mixtures of pure standards that represent realistic sedimentary rock compositions.

The 2019 meeting of the Clay Minerals Society was a joint meeting in Paris July 1-5 with the European Clay Groups Association and the 6th Mediterranean Clay Meeting (mcr2019.sciencesconf.org). The meeting was held at Pierre & Marie Curie University in the center of Paris and was organized by the French Clay Group under the auspices of ECGA. Bruno Lanson, Vice President Elect of the Clay Minerals Society, served as co-chair of the Paris meeting.

www.clays.org


Correspondence address:
Dr. Andrii Panko
Senior researcher of Department of Physicochemical Geomechanics
F.D. Orcharenko Institute of BioColloid Chemistry
Kiev, Ukraine
Phd.wiz@gmail.com

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

The last three ICCs have included the AIPEA School for Young Scientists (ASYS) in their program. These short courses were dedicated to topics of clay sciences which are of worldwide interest. Unfortunately, it is not always possible for every young clay scientist to attend this conference and/or to the ASYS course. Consequently, in 2013 AIPEA started its Educational Series (AES) by publishing the material presented during ASYS. By now, the Series has already two volumes linked to the ASYS 2009 and 2013 courses.

AES Volume 1 has already been sold out. Electronic copy of it is available for free download. Just send a request to info@aipea.org and we will provide a link for downloading the file. In 2015, the AES Volume 2 was delivered to the public and is available for purchase. More information follows.

Magnesian Clays Characterization, Origin & Applications
AIPEA Educational Series - Publication No.2
Editors: Manuel Pozo & Emilío Galán

Lectures held at the: 2nd AIPEA School for Young Scientists Rio de Janeiro, Brazil, July 6-7th, 2013
DigitalPub., Bari, Italy - pp. 380 x XII
ISSN: 2283-687X

The book is an overview and update on the main issues related to magnesian clays. It is accessible to students, providing the basics and the latest information on the several topics and including key literature references.

Contents
1. Introduction to Mg-rich clay minerals: Structure and composition (Stephen Guggenheim)
2. Methodology for the identification and characterization of magnesian clays (Emilío Galán and Patricia Aparicio)
3. Geology of magnesian clays in sedimentary and non-sedimentary environments (José Pedro Calvo and Manuel Pozo)
id iron aluminum silicate rock dispersion are considered. The conditions for establishing, for the first time, the phenomenon of an ultra-anomaly of dispersion viscosity and possibilities for its practical application have been considered too. [21-23]

The following institutes and universities in Ukraine were involved into the studies: Tatiana Shevchenko National University in Kyiv, Institute of Bio colloidal Chemistry, Institute of Physics, Institute of Macromolecular Chemistry, Technical Thermal Physics Institute, Kiev National University of Technology & Design, Institute for Scintillation Materials of STC “Institute for Single Crystals,” Ukrainian Research Institute of Medical Rehabilitation and Balsmology, Chernivtsi Yuri Fed’kovych’ National University, Ivan Krypiakevich Institute of Ukrainian Studies, Ferenc Rákosz Transcarpathian Hungarian Institute, Dumanski Institute of Colloid Chemistry and the Chemistry of Water, Department of Microbiology and Biotechnology, National University of Food Technologies, National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”, Kiev National University of Technologies and Design, Kiev National University of Trade and Economics, Kharkiv Polytechnic Institute, V.N. Karazin Kharkiv National University.

Educational courses on clay sciences were presented in many Ukrainian universities, e.g. “Surface phenomena and disperse systems”, “Solid state chemistry” (Khmel’nitsky National University), “Physical and colloidal chemistry” (Lviv National Medical University named Daniel Galicician), “Surface phenomena” (Kherson State Technical University), “Physical and Colloidal Chemistry” (Lviv Polytechnical), “Material science and basis of goods manufacturing technology” (Kyiv National University of Trade and Economics), “Merchandising of nonfoods” (Kyiv National University of Trade and Economics); “Product safety” (Kyiv National University of Trade and Economics); “Modern trends in skin-wool production” (Kyiv National University of Technologies and Design); “Material science” (Kyiv National University of Technologies and Design), and “The course on computation physics (included part related with aggregation and sedimentation of anisotropically shaped colloidal particles)” (Tarat Shevchenko National University).

No special clay meetings or workshops were organized during 2019.

References:
10. Vygornitskii, N. V.; Lebovka, N. I.; Tarasevich, Y. V;
The upcoming organizational events by the Clay Science Society of Turkey will be the co-organization of the 17th International Clay Conference (17th ICC, 2021) with The Clay Minerals Society during July 11-16, 2021 in Istanbul. During its long history, Istanbul has served as the capital of the Roman Empire (330-395), the East Roman Empire or the Byzantine (395-1204 and 1261-1453), the Latin Empire (1204-1261), and the Ottoman Empire (1453-1922). Istanbul is the most populous city in Turkey and the country's economic, cultural and historic center. Located in the center of the old world, this exotic city is famous for its historical monuments and scenic views. It is the only city in the world which spreads over two continents – Asia and Europe – which are separated by a narrow strait, the Bosporus.

The conference venue will be the Istanbul Hilton Maslak Hotel, a global chain hotel, which is located within walking distance of the Istanbul Technical University Campus. The motto of ICC2021 is “New Interfaces: Bridging Continents and Culture with Clay”. The organizational planning is in progress and the invitation, the last updates on the conference, important days and deadlines, preliminary proposals for conference themes, and conference fees are announced at the website address www.icc.aipea.org.

On behalf of the Clay Science Society of Turkey and The Clay Minerals Society, I would like to invite all clay scientists to participate in the 17th ICC Istanbul 2021. We look forward seeing you in Istanbul.

Asuman Gűnülü Türkmenoğlu
President
The Clay Science Society of Turkey

January 2020
AIPEA Listerves

The international community of clay mineral researchers benefits from two AIPEA list-serves. They are intended to make information pertaining to all areas of clay sciences available quickly. The first AIPEA list-serve (members@aipea.net) contains the e-mail address of all AIPEA members and those of its affiliated societies (national and regional clay groups). These e-mails are updated annually, and all members are automatically included in the AIPEA Members List. If you are a member of any AIPEA affiliated society and are not receiving messages, please check whether your affiliated society has sent an updated list of e-mails to the AIPEA webmaster. If your affiliated society is not yet affiliated with AIPEA, please encourage those in charge to make contact with the AIPEA President (president@aipea.org) or Secretary (secretary@aipea.org) for information. Alternatively, please also check the spam or junk or clutter box to be sure that AIPEA messages have not been misdirected to it.

AIPEA has also organized a “talk list” (talk@aipea.net) for people interested in clay science but who are not yet engaged in affiliated societies or AIPEA. Those interested in participating in the AIPEA talk listserver should send a message to talk.subscribe@aipea.org. Subscription to the list is completely free and you may remove your name from the list at any time just by sending a message to talk.unsubscribe@aipea.org.

Finally, if you wish to share information about any topic related to clay minerals with AIPEA members, please send a message to the AIPEA webmaster (webmaster@aipea.org) and/or to the AIPEA Secretary- General (secretary@aipea.org).

Peter Ryan
Secretary-General, AIPEA
April 2020

On the last day of the Symposium there were amazing social/cultural visits, first to the SEKA Paper Museum complex which is Turkey’s largest industrial heritage museum conversion project. The Museum has permanent and temporary exhibitions concerning the history of the paper production processes especially in regards to the first paper factory founded in Turkey during 1936. Next, in the same complex, the participants visited the Science Museum Hall where scientific findings are exhibited. Among those, a replica of Al-Jazari’s Elephant Water Clock, a masterpiece of Medieval Engineering, attracted great interest. Finally, the World’s second biggest movie studios after those of Hollywood, which are located at the SEKA Museum complex, were visited. These studios were the sites for making the most popular Turkish TV series. Overall, the Scientific and Social programs made The 18th National Clay Symposium more prospective and unforgettable for the participating Turkish clay scientists.
In 2019 The Clay Science Society of Turkey organized the 18th National Clay Symposium (Clay’18) during 25-28 September, 2019 in Kocaeli, Turkey. The Kocaeli University hosted the symposium, with the leadership of colleagues from the departments of Physics and Chemistry. Drs. Ahmet Uğur Kaya and Selahaddin Güner acted as the Co-Chairs of the Symposium, and accomplished a great job in bringing together participants from many disciplines. The symposium agenda consisted of a total of 40 presentations on a wide number of topics which gathered under the themes of Clay Mineralogy, Geology and Geochemistry; Clays and Archeology; Clays and Environment; Bentonite; Physicochemical Characteristics of Clays; Geotechnical Applications of Clays; Clays in Geothermal Systems; Nanoclays-Clay Nanocomposites; Clays in Ceramics; Zeolites; Clays-Paleosols and Climate. Prof. Dr. Ertuğrul Yörükoğulları presented an invited lecture on the solar energy storage by minerals (mainly zeolites).

Prof. Dr. Ertuğrul Yörükoğulları from the Eskişehir Technical University Physics Department is presenting a speech on “The applications of solar energy storage by zeolites.”

Prof. Dr. Sevim Akyüz from the İstanbul Cultural University, Physics Department is giving her speech on the "Analysis of clays by FTIR, Micro-Raman, EDXRF, XRD and Chemometric methods".

In 2019 big steps forward were done to register the legal status of AIPEA, and a founding document was signed at a notary public office in Granada. Now AIPEA is waiting for its definitive registration in the Spanish National Registry of Associations. This will be the last step to get its own tax code number, after which AIPEA will be able to issue valid invoices in its own name and act as a full legal entity.

We have contributed to Elements magazine, which ensures promotion of the AIPEA among the wider mineralogical community.

National Clay Groups
Following a specific request, dues corresponding to 2018 were received from the Clay Science Society of Japan. No other invoices have been sent to the National Clay Groups for 2018 dues because it is necessary that AIPEA get its own fiscal status. National Clay Groups were informed accordingly, and they will be asked for 2018 and 2019 payments later.

Individual Membership
Individual memberships increased: there is 1 new affiliate, for a total of 34 individual members. No invoices have been sent to those individual members (8) finishing their affiliations during 2018 or 2019.

PayPal
Payment of membership fees is facilitated through the use of PayPal (treasurer@aipea.org). Dues can be paid in either US dollars or Euros.

Website Support
The website is supported by AIPEA, and some important changes have been done during 2019: i) migration of the aipea.org domain from Aruba to SiteGround servers, with the maintenance of the hierarchy; ii) installation of aipea.org multisite with a dedicated theme; iii) creation of 18 third level domains and theme installation on the aipea.org multisite; and iv) activation of aipea.net domain with 5 mailing lists. We continue to acknowledge the contributions of Dr. Saverio Fiore and the Italian Clay Group for keeping it up to date.

Financial Statement
The Balance Sheet and Profits & Loss statements are provided for 2019.

Alberto López Galindo
Treasurer, AIPEA
January 2020
### AIPEA Balance Sheet
January through December, 31st 2019

**ASSETS**

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chequing/Savings</td>
<td>€75,864.81</td>
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<tr>
<td>Bankia Current Acct.</td>
<td>€83.69</td>
</tr>
<tr>
<td>Total Chequing/Savings</td>
<td>€75,948.50</td>
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<tr>
<td>Total Current Assets</td>
<td>€75,948.50</td>
</tr>
</tbody>
</table>

**LIABILITIES & EQUITY**

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<thead>
<tr>
<th>Category</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Unrestricted Net Assets</td>
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</tr>
<tr>
<td>Net income</td>
<td>-€7,479.92</td>
</tr>
<tr>
<td>Total Equity</td>
<td>€75,948.50</td>
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</tbody>
</table>

**TOTAL ASSETS**

<table>
<thead>
<tr>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>€75,948.50</td>
</tr>
</tbody>
</table>

### AIPEA Profit & Loss
January through December, 31st 2019

**Ordinary Income/Expenses**

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Income</td>
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</tr>
<tr>
<td>Membership Dues (1)</td>
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</tr>
<tr>
<td>Total Program Income</td>
<td>€1,121.40</td>
</tr>
<tr>
<td>Total Income</td>
<td>€1,121.40</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIPEA newsletters n. 50 and 51</td>
<td>€1,175.20</td>
</tr>
<tr>
<td>AIPEA regularization (2)</td>
<td>€254.43</td>
</tr>
<tr>
<td>AIPEA Council Meeting (3)</td>
<td>€360.00</td>
</tr>
<tr>
<td>Best Oral and Poster EUROCLAY</td>
<td>€300.00</td>
</tr>
<tr>
<td>AIPEA new web page</td>
<td>€5,307.00</td>
</tr>
<tr>
<td>AIPEA ballot</td>
<td>€599.58</td>
</tr>
<tr>
<td>Advertising Expenses</td>
<td>€610.00</td>
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<tr>
<td>Bank Charges &amp; Interest</td>
<td>€35.11</td>
</tr>
<tr>
<td>Total Expense</td>
<td>€8,601.32</td>
</tr>
</tbody>
</table>

**Net Ordinary Income**

<table>
<thead>
<tr>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>-€7,479.92</td>
</tr>
</tbody>
</table>

**Net Income**

<table>
<thead>
<tr>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>-€7,479.92</td>
</tr>
</tbody>
</table>

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(1): 2018 dues from Japan, 1 individual member
(2): Public notary expenses
(3): Room rental at Hotel Le Six, Paris, during EUROCLAY

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Excursion for students of the Tunis El Manar University in the context of the Valorization of Geomaterials in the region of Jebel Oust and Jebel Menchar April 26th, 2019.

For further information, please contact:
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Centre de Recherches et des Technologies des Eaux,
Technopôle de Borj Cédria
BP 273, 8020, Soliman
Tunisia
E-Mail: tunisianclaygroup@yahoo.fr
web site: www.tcg.tn

Prof. Fakher Jamoussi
President of the Tunisian Clay Group
December 2019
CLAY MINERALS GET INCREASINGLY INTER-DISCIPLINARY

The Qing Yang Institute for Industrial Minerals (QYIM) and Zhejiang University of Technology, along with some other universities and research institutions, successfully organized and held THE THIRD WORLD FORUM ON INDUSTRIAL MINERALS (WFIM-3) combined with THE 11TH INTERNATIONAL SYMPOSIUM ON NANO & SUPRAMOLECULAR CHEMISTRY (ISNSC-11) on October 12-16, 2019, in Qing Yang, where calcite, limestone and dolomite and clay minerals abound, in Anhui Province, China.

The chairman is clay scientist Prof. Chuan Hui ZHOU and the co-chairmen of ISNSC-11 and WFIM-3 are Profs Yang Kim, Cheng-Zhong (Michael) Yu, Martino Di Serio, Jan J. Weigand, Artur Stefankiewicz, Hong Ping He, Tian Hu Chen, and Hong Ting Zhao. Profs Leonard F. Lindoy, G.Q. Max Lu and Xiao-Nian Li act as the honorary chairman.

The theme of WFIM-3 was ‘Fusion of Supramolecular Chemistry, Nanotechnology and Industrial Mineralogy’. Around 300 attendees consisted of international and China national mineral scientists, experts, technologists, managers, science journalists, and staffs from relevant governmental sectors. International leading scientists such as Prof. Jonathan Nitschke, Peter Comba, Cameron Kepert, Thomas Schrader, Hua Zhang, Stefanie Dehnen and Hasiie Hong and many others delivered speeches, gave presentations and chaired sessions. An abstract book was formally published by a publishing house (JCCBS) and distributed to all delegates on-site.

The studies there-in shed light on exciting advances in technological innovations and increasing commercialization of high value-added industrial minerals-based products with the aid of increasingly deepening scientific insights into industrial mineralogy and their interactions with supramolecular chemistry, nanotechnology. Scientists also embarked on a field trip to the National Geological and Forestry Park, Qing Yang, Anhui Province, China.

The purpose of the WFIM-3 & ISNSC11 conference was ‘response to the need of multidisciplinary collaboration for advancing ‘Chemistry of Nano, Supramolecules and Mineralogy’. WFIM meetings promote the pursuit of science, innovation and eco-friendly green development’, said in Prof Chuan Hui ZHOU’s opening speech. As Professor Max Lu, President and Vice-Chancellor of the University of Surrey and Honorary Chair of ISNSC-11 & WFIM-3, pointed out in the opening speech, ‘It is obvious to this audience that, as science becomes an endeavor for teams, innovation requires more and more cross-disciplinary and international collaborations.’ Professor Hong Ping He pointed out that ‘both scientific research and industrial applications of non-metal minerals can benefit from the collaborations among industry, universities, research institutes, and government. …the development of science and technology for nonmetal minerals relies on the multidisciplinary collaborations’. Such gatherings provide opportunities to discuss, debate and show deep insights into industrial mineralogy, supramolecular chemistry and nanotechnology, which together will offer many new opportunities to advance science and technology. As comments by Professor Leonard F. Lindoy, Honorary Chair of ISNSC-11 & WFIM-3, noted in the closing remarks, ‘I found the science presented here remarkably broad and of high quality ... Science is both cumulative and international. Think about what this conference is doing, you are all sitting here meeting people, virtually everyone is a scientist, or training to be a scientist. You are, and have been, exchanging scientific information, and you are making a contribution which will extend into the future.’
Together snapshot of all participants of the Third World Forum on Industrial Minerals (WFIM-3) and The 11th International Symposium on Nano & Supramolecular Chemistry (ISNSC-11) [photo courtesy of Chui-Hui Zhou]

Scientists and officials deliver speeches during WFIM-3 & ISNSC-11 opening ceremony. [photo courtesy of Chui-Hui Zhou]

1- Committee:
The members of the Tunisian Clay Group (TCG) Executive Committee are:

- President: Fakher Jamoussi
- Vice-President: Nouri Hatira
- Secretary General: Mondher Hachani
- Treasurer: Béchir Moussi
- Members: Hédi Ridha Chaftar, Samir Baklouti, Ali Tlili, Emna Fakhfakh, Imen Khiairi, Khalil Lazaar

2- Activities of the Tunisian Clay Group during 2019
2.1 Participation in congresses and symposiums:
Some members of the Tunisian Clay Group (TCG) participated in the 2019 Euroclay International conference on clay science and technology in Paris 1-5 July 2019, with presentation of several communications.

2.2 ECGA meeting July 02, 2019 in Paris
The president of the Tunisian Clay Group (TCG) took part on July 2, 2019 on the sidelines of the International conference on clay science and technology in Paris, to the meeting of the European Clay Groups Association (ECGA) during which was elected the new president for the period 2019-2020, Prof Saverio Fiore from Italy. There is also the election of Russian Clay Group to host the Euroclay conference in 2023 in Moscow.

2.3 AIPEA – Council Meeting 3 July 2019
The president of the Tunisian Clay Group (TCG) attended the AIPEA Council Meeting on July 3, 2019 in Paris.

2.4 Organization of scientific excursion
The Tunisian Clay Group organized a scientific excursion for the students of the University of Tunis El Manar in the context of the Valorization of Geomaterials in the region of Jebel Oust and Jebel Menchar in North East of Tunisia, April 26th, 2019.

Participation at the Euroclay international conference on clay science and technology, Paris 1-5 July 2019.
Saverio Fiore, President of the European Clay Groups Association (ECGA) gives the Martín Vivaldi Award to Ediana P. Rebitski.

Elisa Laita Florián received the Young Researchers' Award offered by the SEA during the Annual Scientific Meeting in Madrid.

SEA members during lunch at the Euroclay Conference at the Pierre & Marie Curie University (UPMC) in Paris.
Pictures: Scientists and Entrepreneurs, Government Officials are listening to presentations, reading posters, discussing science and enjoying coffee breaks during WFIM-3 & ISNC11 (Not all lecturers are shown here). [photo courtesy of Chui-Hui Zhou]

SEM image of beidellite bridging crystals of chamosite from the Biely vrch porphyry Au deposit (Central Slovakia). (image taken by A. Biroň; https://www.minerroc.org/images-of-clay.html).

SCG Council:
Peter Uhlík (president) peter.uhlik@uniba.sk
Helena Pálková (vice-president)
Jana Madejová, Iveta Stryriaková, Juraj Bujdák

Correspondence address:
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Institute of Inorganic Chemistry
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e-mail: uachsncg@savba.sk
http://www.slovakclaygroup.sk/

SPAIN
SPANISH CLAY SOCIETY - SEA

Around 40 members of the Spanish Clay Society presented papers to the Euroclay 2019 Conference in Paris. During the conference, the Martín Vivaldi Award was given to Ediana P. Rebitski for her paper titled “Theoretical and experimental investigation on the intercalation of metformin into layered clay minerals”. The Martín Vivaldi Award is a European award that is sponsored by the European Clay Groups Association (ECGA) and financially supported by the Spanish Clay Society (SEA). The Selection Committee of the 2019 Martín Vivaldi Award was formed by Prof. Reiner Dohrmann (AIPEA President, Germany), Prof. Peter Ryan (AIPEA Secretary, USA), Prof. Vanessa Prevot (France), Prof. Blanca Bauluz (Spain) and Prof. Fernando Nieto (SEA President, Spain). The new ECGA President was elected during the ECGA Meeting of National Clay Groups. The SEA congratulates Saverio Fiore, a member of the Spanish Clay Society for years, for his election as President of ECGA.

The Scientific Meeting of the Spanish Clay Society was held in Madrid on November 15, with 33 contributions from 65 participants. The Organizing Committee was formed by SEA members from the CIEMAT (Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas). The Scientific Meeting, which included a plenary lecture (“Substituciones isomórficas e hidratación de silicatos de alta carga estudiadas con resonancia magnética nuclear”, by Prof. Jesús Sanz Lázaro) and a poster session, was dedicated to the memory of Prof. José Antonio Rausell Colom, former president (1979-1984) and honorary member of the SEA since 1991. The Young Researchers Award offered by the SEA was given to Elisa Laita Florián for her paper titled “Características mineralógicas y texturales de paleosuelos arcillosos de la subcuenca de Oliete (Teruel)”.

The Marilyn and Sturges W. Bailey Award to Prof. Eduardo Ruiz-Hitzky was announced by The Clay Minerals Society (North America) at the annual meeting. Prof. Ruiz-Hitzky is former Vice-President and President of the Spanish Clay Society (2002-2010) and honorary member since 2017. The presentation of the Marilyn and Sturges W. Bailey Award will be made at the Annual Meeting of the CMS in June 2020.

África Yebra-Rodríguez
Secretary Spanish Clay Society
December 2019
M. Slaný explains the results at the poster session, the EUROCLAY 2019.

Clay science during coffee break at the EUROCLAY 2019 (J. Bujdák (left) and D. Moreno).

SCG members at the EUROCLAY 2019 venue in Paris.

3. Fifteen members of the SCG took part in EUROCLAY 2019, the meeting of the European Clay Groups Association jointly with the 56th annual meeting of The Clay Minerals Society and the 6th Mediterranean Clay Meeting in Paris, France, July 1-5, 2019. We met many excellent scientists and enjoyed the atmosphere of the Paris (Photos 2-5). The participation of four PhD. students was partly financially supported by the SCG (T. Baranyaiová, M. Barlog, D. Moreno, M. Slaný). The PhD. students also obtained financial contribution from “Council of the Scientific Societies at the Slovak Academy of Sciences” to cover part of their travel conference expenses.

4. The image of beidellite (Photo 6) taken by our member Adrian Biroň (Earth Science Institute of the Slovak Academy of Sciences) has been selected as the 100th image of the Images of Clay Archive, an ongoing project of the Clay Minerals Group of the Clay Minerals Society of Great Britain and Ireland and The Clay Minerals Society (USA).

5. The annual meeting of SCG was held in the end of November in Bratislava. The council members were elected during the meeting (Juraj Bujdák, Jana Madejová, Helena Pálková, Iveta Štyriaková and Peter Uhlik). The programme of the meeting also included a lecture presented by our young colleague P. Boháč. He gave the talk about research during his fellowship at Karlsruhe Institute of Technology, Germany (Ca-bentonite: properties and applications for geotechnical barriers).

7 new members, most of them students, have applied for membership in the SCG during the year 2019.

ANNOUNCEMENT

Now Scientists in the field of clay minerals and other industrial minerals around the world are all welcome to submit latest work to and attend:

The 4th World Forum on Industrial Minerals (WFIM-4) & AIPEA Short Course – 2020

Theme: Working Together on Industrial Minerals in a Green and Sustainable Future

Qing Yang (Jiu Hua Shan), Chi Zhou City, Anhui, China

E: wfim4_2020@126.com

The activities expect to range from oral and poster presentations, enjoyable social banquets to pleasure one-day field trips to gorgeous UNESCO World Geological Parks.

For details on WFIM-4, please contact: wfim4_2020@126.com & Will P Gates: will.gates@deakin.edu.au
For AIPEA Short Course – 2020, please contact: wfim4_2020@126.com & Jeanne Percival: jeanne.percival@canada.ca
Looking forward to meeting you in Oct 2020 just in scenic Qingyang County and Jiu Hua Shan World Geological park!

Picture: Scientists and Entrepreneurs, Government Officials are reading posters discussing science and enjoying coffee breaks and wines during WFIM-3 & ISNC11 (Here no shown all lecturers). (photo courtesy of Chui-Hui Zhou)
1. On 28 - 29 May 2019, the SCG organized the 6th workshop “Clay minerals and selected industrial minerals in material science, industrial applications and environment technology”. The workshop was held in a town in central Slovakia, Banská Bystrica. The main goal of the workshop was to provide PhD students and young scientists the opportunity to deliver lectures and to discuss their scientific results with senior researchers. Sixteen members of the SCG participated at this workshop. The event was invigorated by an excursion to the Earth Science Institute of the Slovak Academy of Sciences where the participants visited several new modern labs, e.g.: Laboratory of isotope and organic geochemistry and Laboratory of computed tomography. The event was partly supported by the “Council of the Scientific Societies at the Slovak Academy of Sciences”.

2. The SCG and the Slovak Association of Economic Geologist co-organized the 61st Forum on the Geology of Industrial Minerals, Central Slovakia Neogene Volcanics 2019”, on 21 – 23 May 2019 in Banská Štiavnica and surroundings. Almost 40 participants from Czech, Poland and Slovakia visited bentonite, perlite, basalt (Photo 1) and zeolite deposits, and the old mining town Kremnica with one of the oldest mints in the world.

SLOVAK CLAY GROUP (SCG)

The participants of the Forum on the Geology of Industrial Minerals in the Tekovská Breznica – Brehy basalt deposit.
On November 7-15, 2019, the Russian Clay Group organized and hosted the Sixth Russian School of Clay Minerals «Argilla Studium-2019» (November 7-12, 2019) and the Fourth Russian Clay and Clay Minerals Meeting – «CLAYS 2019». In total, 197 participants had registered and 143 specialists from 5 countries, 26 cities and 93 organizations took part in the Events. The Program consisted of two seminars:
1. Introduction to atomistic Computational Modeling of Materials and Processes Relevant for Geological Nuclear Waste Disposal
2. Introductory workshop on basic methods for the identification and analysis of clay minerals.

Lectures, plenary presentations, oral and poster sessions were held on the main fields of study of clays, clay minerals and layered materials. The program and materials can be downloaded from https://www.argillas.ru/clay-conference-2019

Program of the VI Russian Clay Workshop on clay Minerals «Argilla Studium» was focused on a wide range of specialists from different age groups working in the field of clay and clay minerals, as well as graduate students and young scientists. All lectures and practical classes are original. Lectures on the Workshop were given by A. Kalinichev (Université de Nantes, HSE), A. Kremlева (Technical University of Munich), M. Szczerba and A. Kuligiewicz (Institute of Geological Sciences, Polish Academy of Sciences, Krakow), T. Sokolova and I. Tolpeshina (Lomonosov MSU), T. Zaitseva (IGGD RAS), B. Pokidko, S. Zakusin, O. Dzordzheva, V. Krupskaya (IGM RAS).

The IV Russian Conference on clays and clay minerals «CLAYS-2019» was dedicated to the following issues: crystal chemistry of clay minerals, methods of their identification, physical, chemical, water-physical and other clay properties, behavior of clay minerals in weathering conditions, redispersion and transformation during geological processes, and aspects of the use of clay minerals in industry, including the oil and gas industry. In connection with the active development of the use of clay materials as components of engineered safety barriers for the disposal of radioactive waste, a separate scientific session was created as part of the meeting. Upon completion of the work of this section, a panel discussion was organized on the topic: «Experience and prospects for the use of clay at the disposal facilities of radioactive waste and conservation of nuclear weapons». Section 5 is presented on the website - atomic energy 2.0 - www.atomic-energy.ru/articles/2019/11/26/99448 (in Russian)

A. Kalinichev (Université de Nantes, HSE), V. Drits (GIN RAS), E. Samarin (Lomonosov MSU), D. Svensson (SKB), F. Noli (Aristotle University of Thessaloniki).

Participants of the IV Russian conference on clays and clay minerals - CLAYS-2019: after the Closing Ceremony (above) and after the Poster Session (below).

In addition to conducting its meetings during 2019, members of RGG participated in various scientific conferences in Russia and abroad. One of the largest was EUROCLAY 2019, held in Paris, where an important decision was made to carry out the next EUROCLAY 2023 in Moscow! The website for the upcoming conference is: www.2023euroclay.ru. RCG is proud of the trust provided and will do everything possible to ensure that the conference is held at the highest possible level in scientific and social terms - stay tuned for our news.

In addition to scientific events, the group members organized many different social events that contribute to creating a warm atmosphere within the group. On behalf of RCG, I wish you all creative success and invite you to scientific events!

The group’s activities are covered on several resources: www.ruclay.com (under construction) - the official website of the group www.ruclay.com - dedicated to scientific projects, www.argillas.ru - website of the initiative group

This session of the AIPEA Newsletter brings together the reports about the many activities developed by its Affiliated Societies/Groups up to December 2019. It represents an effort to coordinate communication among all National (Regional) Clay Group (NCG) members and the individual members of AIPEA. It aims to become a key vehicle for communication of all clay scientists.

For this issue, AIPEA Newsletter has received reports or announcements from the majority of AIPEA affiliated societies and groups. We are grateful to all our collaborators, as we believe that sharing information will provide inspiration and ideas for collaboration and initiatives within and among societies. The readers will notice that the content of each report is particular to each society, bringing together their national flavor. Some original reports included many photos and we had to leave some on the cutting room floor in order to keep the size of this edition easy to be accessed by digital means.

All has been done with much care and interest and we wish you a pleasant reading.

Peter Ryan
Secretary-General, AIPEA
December 2019

CROATIA
CROATIAN CLAY GROUP

After successful 9th Middle European Clay Conference (MECC) in 2018 in Zagreb, 2019 was less demanding for the Croatian Clay Group (CCG). We focused mainly on organizing the clay minerals workshop for undergraduate and PhD students, where early career researchers were welcomed as well. A two-day workshop with lectures and exercises was organized from 21 to 22 November in Zagreb, at the Department of Geology, Faculty of Science (PMF) of the University of Zagreb. 23 people attended the workshop. The lecturers at the workshop were:

Prof. Darko Tiljašić (PMF, Zagreb): Structure of clay minerals and their classification;

Prof. Katja Emmerich (KIT, Karlsruhe): Thermal analyses of clays (lectures and exercises);

Prof. Franz Ottner (BOKU, Vienna): 1) X-ray diffraction analyses of clays, 2) Clays in life, different aspects of clay mineralogy, geotechnical problems;

Prof. Goran Durn (RGNF, Zagreb): Clay minerals in soils and palaeosols.

In 2019, a few members of the group participated in the Euroclay meeting held in July in Paris, France. During the meeting, the new ECGA presidency was elected for the next four-year mandate (2019-2023), and our group member Professor Darko Tiljašić received recognition and was elected as a new secretary of ECGA.

The members of the group were involved in organizing, and participated in, various scientific sessions of the 6th Croatian Geological Congress (HGK) held from 9 to 12
October in Zagreb. It represented an opportunity for scientists and researchers in the fields of mineralogy, soil science, raw materials, Quaternary geology, marine geology, geoarchaeology and cultural heritage, which are the main topics of the researchers from the CCG, to compare ideas and discuss future projects.

During 2020, the group will be engaged in consolidating activities that include acceptance of new members. Currently, CCG has 18 active members. A new president and secretary will be elected for the next two years.

President: Anita Grizelj (Croatian Geological Survey)
Secretary: Nikolina Ilijanić (Croatian Geological Survey)

Participants of the “Clay Minerals” workshop, held in November in Zagreb.

involved in both scientific and applied activities, with particular importance being placed on the establishment of international cooperation on the study of layered silicates. For the purpose of the establishment and intensification of international scientific relations in 2019, several Cooperation Agreements were signed:

- Agreement between the Institute of Geology and Geochronology of the Precambrian of the Russian Academy of Sciences (IGGDRAS) and the Institute of Geology and Geoarchaeology (IGEM RAS) and Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) gGmbH (Germany).
- Agreement between the Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry (IGEM RAS) and the Joint Institute for Energy and Nuclear Research – “Sosny” of the National Academy of Sciences of Belarus (JINR – “Sosny”).
- Agreement between the Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry (IGEM) and Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) gGmbH (Germany).

Current Cooperation Agreements (incomplete list):

- Agreement on scientific cooperation between the Institute of Geology and Geochronology of the Precambrian of the Russian Academy of Sciences (IGGDRAS) and the Scientific and Production Center for Geology of the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus «Scientific Production Center for Geology» (Republic of Belarus).
- Agreement on scientific cooperation between the Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry (IGEM RAS) and the Japanese Research Institute of Georesources and the Environment (AIST).
- The current project (2014-2020) between the Institute of Geology and Geochronology of the Precambrian of the Russian Academy of Sciences (IGGDRAS) and the Institute of Geological Sciences of Poland «Deciphering the Ediacaran environment from unaltered elastic sedimentary rocks of the East European Craton». International project «Maestro», funded by the Ministry of Science and Higher Education of Poland. Due to the development of the project and the construction of the Underground Research Laboratory (URL) in the Krasnoyarsk region, projects on the development of safety barriers for the disposal of radioactive waste, including bentonite barrier systems, have become particularly relevant. In this regard, new projects were strengthened and developed with the National Institute of Advanced Industrial Science and Technology (AIST, Japan) and Kunimine Industry (Japan), Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) gGmbH (Germany), SKB (Sweden), Posiva (Finland).

Thanks to the assistance of Kunimine Industry (Japan) and members of the Russian Clay Group got an opportunity to visit a unique underground mining bentonite deposit at Tsuchinano as well as other deposits in the northern part of Japan (Kawasaki and Dobuyama). Fieldwork on Japanese bentonite clay deposits was arranged under the agreement on scientific cooperation between AIST and IGEM RAS. The purpose of the trip was to study the geological structure of Japanese bentonite deposits, their genesis, as well as to select a collection of samples for further study and comparison with Russian deposits of bentonites of volcanic-sedimentary genesis. In addition to deposits in Japan, the RGG members visited one of the largest deposits of alkaline bentonites, the Dash-Salakhlinskoye (Republic of Azerbaijan) and the 10th Khutor bentonite deposit (Republic of Khakassia, Russian Federation). The field trips were organized by the Bentonite Company Limited www.bentonit.ru. With the support from the FSBI VIMS, members of the RCG managed to visit the kaolin deposit in the Koskol area (Orenburg region, Russia). Also, The ZeoTradeResource LLC provided the opportunity to visit the Kharynets diatomaceous earth deposit (Orel region, Russia) and others.
RUSSIAN CLAY GROUP

The Russian Clay Group (RCG) is affiliated to the European Clay Group Association ECGA. RCG was created in 1994 and includes 43 members who confirmed their membership in 2017.

Honorary President: Prof. Victor Drits, Geological Institute RAS.
President: Dr. Victoria Krupskaya, Institute of Ore Geology, Petrography, Mineralogy and Geochemistry RAS.
Secretary: Dr. Petr Belousov, Institute of Ore Geology, Petrography, Mineralogy and Geochemistry RAS (since 2018).

Members of the RCG specialize in different research areas: the structures and structural heterogeneities of layered silicates; the behavior of clay minerals in soils and organomineral interactions; modern and ancient weathering crusts; bentonite, kaolin and palygorskite clay deposits; clay minerals as indicators of facial settings and conditions of diagenesis and epithermal transformations; geochronological, palaeo-geographical and palaeontological aspects; assessment of the effect of the mineral composition of clays on the permeability and capacity properties of rocks within the framework of oil and gas geology; physico-chemical and physico-mechanical properties of clay soils and clay barriers used for isolation of nuclear heritage sites and radioactive waste (RW) storage; the microstructure and colloidal properties of clays and clay soils in the natural state and in a compacted form; the features of diffusion and migration of technogenic components through clay soils and compacted bentonites; the sorption of radionuclides (Cs, Sr, U, Am, Np); argillotherapy in a complex of restorative treatment; the swelling of clays; theoretical and experimental study of the relationship of rheological and electrochemical clay properties and polymer-clay dispersions in the presence of electrolytes; organoclays and modification of clay particles as additives for plastic lubricants, stabilizers of reverse emulsions and much more.

Traditionally, members of the RCG take part in various field trip activities. The geography of field research is has great breadth, including the European platform, the Ural, Siberia, Far East, Antarctica, Arctic, etc.

International collaborations:
In 2019 members of the Russian Clay Group were actively

CZECH REPUBLIC
CZECH NATIONAL CLAY GROUP

The Czech National Clay Group published two numbers (64–65) of the “Informátor” bulletin in Czech language with information about clay science. ISSN of the printed version is 1802-2480; ISSN of the internet pdf version is 1802-2499.

Informátor publishes information about spring and autumn seminars together with abstracts of seminar lectures (see names below), information about books, conferences and contributions of members or friends related to clays:

“PROČ MOHOU NĚKTÉRÉ HUTNÉ A PEVNÉ US- AZENÉ HORNINY VELMI SNADNO ZVĚTŘÍVAT – PŘÍKLAD GODULSKÝCH PÍŠKOVŮ”
Martin Vavro*, Leona Vavro, Petr Martinec, Ustav geoníky AV ČR, v. v. i., Studentská 1768/9, 708 00 Ostrava-Poruba, *martin.vavro@ugn.cas.cz in the Informátor 64

“GEOLOGICKÉ A PEDOLOGICKÉ ZLOŽKY TERRIR PRI FORMOVANÍ CHARAKTERU VÍN V NIEKTORÝCH VINOHRADNICKÝCH OBLASTIACH SLOVENSKA”
Ivan Kraus*, Pavel Dlpa, Andrej Hrabovský, Peter Uhlik Univerzita Komenského Bratislava, Prírodovedecká fakulta, Mlynská dolina, Ilkovičova 6, 842 15 Bratislava, e-mail: *kraus@uniba.sk in the Informátor 65.

We organized two seminars:
The spring meeting was organized in Prague on June 27, 2019.
Program of the seminar:

1) Dimitrios Papoulis (Associate Professor, Geology Department, University of Patras, Greece): Halloysite based nanocomposites and photocatalysis

2) Konstantinos Nikolakopoulos (Associate Professor, Geology Department, University of Patras, Greece): Remote sensing data processing for clay minerals mapping. Actualities and new perspectives.

3) Ioannis Koukouvelas (Professor, Geology Department, University of Patras, Greece): The role of argillaceous minerals on understanding earthquakes and faults

The autumn meeting was organized in Prague on November 29, 2019.
Program of the seminar:

1) Ivan Turovec (Turnov): Antropogenní aureoly

2) Petr Rojík (Museum Sokolov), Marek Króśl (LIAS Vínitův): Jíl cyprisového souvrství a jejich využití při výrobě expantovaného kameneva

Contemporary board of CNCG in 2019: Martin Sěstný (chairman), Miroslav Pospíšil (vice-chairman), Petr Kovařík (treasurer), Jana Schweigstillová, Pavel Hájek, Petr Praus, David Koloušek (board members).

Correspondence address:

RNDr. Martin Sěstný, CSc. (chairman)
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Rozvojová 269, 16500 Prague 6, Czech Republic
e-mail: stastny@gli.cas.cz, tel.: +420 233 087 233 or
RNDr. Miroslav Pospíšil, Ph.D. (vice-chairman)
Charles University, Faculty of Mathematics and Physics Department of Chemical Physics and Optics
Ke Karlovu 3, 12116 Prague 2, Czech Republic
E-mail: pospisil@karlov.mff.cuni.cz
For other information about CNCG, we recommend you to visit our www pages:
www.czechclaygroup.cz

Miroslav Pospíšil December 2019
FRANCE
FRENCH CLAY GROUP (GFA)

1. COMMITTEE

The French Clay Group has had a stable membership base of more than 100 members during the last two years. In 2019, elections were held to renew the board council of the French Clay Group for the next 4 years. A new Executive committee was approved in July 2019, in the sidelines of EUROCLAY 2019:

President: Maguy Jaber (LAMS, Sorbonne University)
Vice-President: Vanessa Prévôt (ICCE, University of Clermont-Ferrand)
Secretary: Erwan Painneau (LPS, University Paris Saclay)
Treasurer: Emmanuel Tertre (ICGMP, University of Poitiers)

Past President: Bruno Lanson (IFSTerre, University of Grenoble)

2. EUROCLAY 2019

During 2019, the French Clay Group organized EUROCLAY 2019 on behalf of ECGA, jointly with the 56th Annual Meeting of the Clay Minerals Society. The conference was held at Pierre & Marie Curie University (UPMC) in the center of Paris from 1st to 5th July 2019. The conference had 620 participants from more than 45 countries representing the 5 continents as follows: 65% from Europe, 11% from USA, 19% from Asia, 3% from Africa and 2% from Oceania. Also, 30% of participants were students.

The Organizing and Scientific committees received more than 600 abstracts and organized them in 24 technical sessions around four main themes, namely:
- Crystallography, mineralogy and modelling
- Challenges in reactive transport modelling of clay systems (Chairs: Christophe TOURNASSAT, Jean-Charles ROBLIET)
- Experimental and numerical analysis of clay systems: bridging time and length scales (Chairs: Jeffery A. GREAT-HOUSE, Pascale LAUNOIS, Eric FERRAGE, Pierre LEVITZ)
- Physicochemical processes at the clay/water interface (Chairs: Emmanuel TERTRE, Thorsten SCHÄFER, Helge STANJEK)
- 1D nanoporous clay minerals: structures, genesis, functionalization, properties and applications (Chairs: Antoine THILL, Lala Setti BELAROUJ, Peng YUNA, Faiza BERGAYA)
- Multi-scale understanding of interface redox reactions (Chairs: Sylvain GRANGEON, Francis CLARET, Maria do SAMEIRO MARQUES FERNANDES)
- Characterization of clayey nanostructures (Chairs: Wen-An CHIOU, Tohshiro KOUGURE, Stephane KAUFHOLD, Reiner DOHRMANN, Paul SCHRÖEDER)
- Environment and geological processes
- Clay minerals in the fracture zones (Chairs: Simon J. KEMP, Horst ZWINGMANN, Anja SCHLEICH-ER, Juan JIMÉNEZ-MILLÁN)
- The role of clays and modified clays in remediating environmental pollutants (Chairs: Bhabananda BISWAS, Jérome LABILLE, Benedicte PRELOT)
- Clays and organic matter (Chair: Michael PLOÖTZE)
- Mudrocks: composition, fabric and provenance – fundamental research and practical applications of the data (Chairs: Jean-François DECONINCK, Katarina STANJEK)
- Moroccan phosphate deposits for the production of ceramics made from clay and banana peel powder. Results in Materials, 4, 100028.

Endnotes
1-France
2-Euroclay 2019
3-Current status of the French Clay Group
4-Registration and accommodation details

The study and industrial use of clays in Morocco are active, since the country has extensive and varied clay deposits which have been explored since pre-Roman times. Clay traditional and modern industry is widespread. Clay science is a quite widespread discipline (geology, chemistry, industry, etc.) and that MAG association main goals with geologists and geologists according to its by-laws, the best way to improve and widen the relationship between the Moroccan researchers and teams is to resume the associative activity on clay science through the Société Marocaine des Argiles (SMA), which has been active until 2009. If not possible, the alternative of the creation of a new association should also be a likely initiative. Support for resuming of the SMA or for the creation of a new association is needed from the Ministry of Energy, Mines and Environment, from ONHYM-Pole Mines (the mining agency in Morocco), the Ministry of Energy, Mines and Environment, from different faculties. International collaboration was also observed with France and Belgium. There were also fully foreign teams from Spain and Denmark that studied Moroccan clays in the setting of geodynamics and environment. On the organizational aspect, the Moroccan Association of Geosciences (MAG) has created a Moroccan Group of Clays (MGC) within its Commission of Sedimentology. However, contacted specialists did not decide to lead the Group, so the responsibility of the MGC remains provisional.

Given that clay science is a quite widespread discipline (geology, chemistry, industry, etc.) and that MAG association main goals with geologists and geologists according to its by-laws, the best way to improve and widen the relationship between the Moroccan researchers and teams is to resume the associative activity on clay science through the Société Marocaine des Argiles (SMA), which had been active until 2009. If not possible, the alternative of the creation of a new association should also be a likely initiative. Support for resuming of the SMA or for the creation of a new association is needed from the Ministry of Energy, Mines and Environment, from ONHYM-Pole Mines (the mining agency in Morocco), the Ministry of Energy, Mines and Environment, from ONHYM-Pole Mines (the mining agency in Morocco), the Ministry of Energy, Mines and Environment, from ONHYM-Pole Mines (the mining agency in Morocco), the Ministry of Energy, Mines and Environment, from ONHYM-Pole Mines (the mining agency in Morocco), the Ministry of Energy, Mines and Environment, from ONHYM-Pole Mines (the mining agency in Morocco), the Ministry of Energy, Mines and Environment, from ONHYM-Pole Mines (the mining agency in Morocco), the Ministry of Energy, Mines and Environment.
The conference was organized with the technical assistance of “Sud Congrès” agency. We appreciate the generous support of our sponsors. We would like to thank you all for the assistance and attendance to make EUROCLAY 2019 in Paris possible and we hope you enjoyed your stay in France.

Leadership of international scope
Andrey Kalinichev, Professor at the Ecole des Mines de Nantes, now serves as President of the Clay Minerals Society (USA). Bruno Lanson, Research Director at CNRS – Grenoble, is the new Vice President of the Clay Minerals Society (USA). Erwan Paineau, Research Associate at CNRS – University Paris Saclay, was elected in 2018 as Council member of the Clay Minerals Society (USA).

Maguy Jaber with the assistance of Erwan Paineau and Bruno Lanson
December 2019

4. Publication
The Clay Science Society of Japan publishes three issues of Nendo Kagaku (Journal of the Clay Science Society of Japan, in Japanese), and four issues of Clay Science every year.

For further updated information: http://www.cssj2.org/english/ or contact Jun Kawamata, Yamaguchi University, e-mail: j_kawa@yamaguchi-u.ac.jp.

Jun Kawamata
December 2019

ECGA Awarded: Ediana Paula Rebizki (Spain) with co-authors Margarita Darder, Ignacio Sainz-Díaz, Pilar Aranda, Raffaele Cartaro & Eduardo Ruiz-Hitzky
Title of the contribution: “Theoretical and experimental investigation on the intercalation of metformin into layered clay minerals”

Several excursions were available to the participants on Wednesday 3rd July: an introduction to field relations of the Kimmeridgian organic-rich shale, two French research facilities for clay mineral research (Soleil synchrotron & Andra underground laboratory), and historical tours with clay science emphasis in the center of Paris or a visit to the Sèvres porcelain museum.

The conference was organized with the technical assistance of “Sud Congrès” agency. We appreciate the generous support of our sponsors. We would like to thank you all for the assistance and attendance to make EUROCLAY 2019 in Paris possible and we hope you enjoyed your stay in France.
3. Awards

The society presented awards to the following members at the occasion of the annual meeting.

Clay Science Society of Japan Award was given to T. Nakato, Kyushu Institute of Technology.

Achievement Award was given to T. Takagi, National Institute of Advanced Industrial Science and Technology (AIST).

Young Researcher Award was given to Y. Suzuki (Yamaguchi University).

Best Technological Award was given to Y. Noguchi, Ichie-nen Chemicals Co., Ltd.

Best Paper Awards were given to M. Kuoke et al. (Clay Science, 22, 1-11) and K. Yotsuji et al. (Nendo Kagaku, 58, 8-25).

Young Student Awards were given to K. Nishio (Chuo University), Y. Nishiki (Hokkaido University) and I. Akita (Hokkaido University).

Best Presentation Awards were given to the following young researchers.

S. Inoue (Akita University)
Ikeda (Yamaguchi University)
Y. Oyamada (Waseda University)
S. Hossain (Saitama University)

Mid-European Clay Conference (MECC) in Kliczków, Poland, Sept 13th to the 17th, where we will hold the DTTG general assembly and will elect the new board. The current board consists of Matthias Schellhorn (left), Stephan Schmidt KG in Dornburg, as President, Georg Gratho (middle), University of Greifswald, as VP, and Kristian Ufer (right), BGR Hannover, as treasurer. Further details of upcoming meetings, workshops, and the composition of the complete board can be found on the DTTG website https://www.dttg.ethz.ch/
Chairman: Simon Kemp (sjk@bgs.ac.uk)
Secretary: Helen Pendlowski (helen.pendlowski@bgs.ac.uk)
Treasurer: Francis Clegg (f.clegg@shu.ac.uk)
Committee:
  - Patrick Dowey
  - Chris Greenwell
  - Stephen Hillier
  - Anke Neumann
  - Binyo Sarkar
  - Kirill Shafran
  - Neal Skipper
  - David Wray

Meetings in 2019
The 2019 CMG RiP meeting ‘Clay minerals in the natural and built environment: formation, chemistry & applications’ was a joint venture with the Environmental Chemistry Group of the Royal Society of Chemistry and convened by Anke Neumann (CMG) and Laura Newsome (ECG) at Newcastle University (17th May 2019). Over 50 delegates attended a full day of talks and posters. Excellent keynote talks were delivered by Profs. Josef Brevi (Univ. Bayreuth; ‘Better clays make life easier’) and Susan Stipp (Tech. Univ. Denmark ‘Clays in nature as functional nanoparticles’) together with invited talks from David Owen (Treatchem Ltd) and Bhoopesh Mishra (Univ. Leeds). The CMG awarded prizes for the best student oral and poster presentations:
  - Panagiota Adamou (Newcastle University) for her oral presentation ‘Using Fe-bearing clay minerals to remove antibiotic resistance genes from domestic wastewater’ and
  - Jeffrey Paulo Perez (GFZ German Research Centre for Geosciences) for his poster on ‘Revealing the interfacial reactions between green rust and arsenic species at the nanoscale’

Plans are progressing for the Group’s 2020 RiP meeting, which will be another joint meeting, this time with the Environmental Mineralogy Group. Following the success of the 2019 event, the RiP will again be held at the University of Newcastle on 21 May 2020. Anke Neumann will convene on behalf of the CMG, Olly Moore (Univ. of Leeds) and Jay Bullen (Imperial College) have volunteered to lead from the EMG-side.

Group members took an active part convening sessions at the Paris Euroclay conference in July, 2019. The 20th George Brown lecture was delivered at this venue by Prof. Toshifumi Kogure (University of Tokyo) with title of ‘Visualisation of clays at the atomic scale’.

The CMG again sponsored a session (‘Fine-grained sedimentary rocks in energy decarbonisation’) and keynote speaker (Dr Susanne Gier, University of Vienna) at the British Sedimentological Research Group’s AGM, Royal Holloway, University of London (December 2019).

Clay Minerals Journal
Following a concerted effort, headed by George Christidis and Kevin Murphy and with support from the CMG and the European Clay Groups Ass., we are pleased to report that the IF for Clay Minerals rose to 1.78 in 2019. We are hopeful that this will rise further in 2020.

CMG-Future Activities
The committee have started to discuss ways to celebrate its 75th anniversary in 2022.

Social Media
The CMG’s Twitter account (@CMG_minsoc) continues to attract followers (now approaching 400) and now forms one of our most important means of communication. The group have also created a LinkedIn group page to provide better communication with our industrial colleagues.

Liaison-Officer: Massimo SETTI (Department of the Earth Sciences, University of Pavia)
Administrative address: AISA - onlus c/o Dipartimento di Scienze della Terra e Geosienzialti Via Orabona, 4, 70124 Bari - Italy
Antonio Lettino
Secretary, AISA onlus
December 2019

THE CLAY SCIENCE SOCIETY OF JAPAN

1. Committee
The following officers were elected for the fiscal year 2019 and 2020.
President: Prof. A. Yamaizaki, Waseda University
Vice president: Prof. M. Kawano, Kagoshima University
Secretary General: Prof. M. Nakagawa, Kochi University
Principal Editors:
  - Dr. T. Hihino, National Institute of Advanced Industrial Science and Technology (Nendo Kagaku)
  - Dr. T. Ebina, National Institute of Advanced Industrial Science and Technology (Clay Science)

2. The 63rd annual meeting
The 63rd annual meeting of the Clay Science Society of Japan was held at Saitama University from 10 to 12, September 2019. It was principally organized by Prof. Chiaki T. Ogachi of Saitama University. A total of 70 papers including 32 posters were presented. The program included a symposium related to the promotion of diversity. The program also included a symposium entitled “Role of clays in Aquaplanetology” given by the following invited speakers.
  - Prof. Dr. T. Hibino, National Institute of Advanced Industrial Science and Technology (Clay Science)
  - Prof. T. Sato, Hokkaido University
  - Prof. H. Genda, Tokyo Institute of Technology: Formation and evolution of the Solar System, water, and clay minerals
  - Prof. T. Usui (Japan Aerospace Exploration Agency (JAXA)): Water of Mars
  - Prof. K. Fukushi (Kanazawa University): Ancient Environment of Mars and Clay Minerals
  - Prof. Y. Sekine (Tokyo Institute of Technology): Water of Mars

The program included a symposium related to the promotion of diversity.

THE ITALIAN ASSOCIATION FOR THE STUDY OF CLAYS – AISA

2019 ACTIVITIES:
Members of AISA (Associazione Italiana per lo Studio delle Argille - AISA onlus) were mainly involved during 2019 in the presentation of research results at international (e.g. Euroclay) and national conferences and participation in research programs. AISA members focused last year’s international activities on the organization of the GEOHEALTH 2020, which will take place in Bari (Italy) from 1 to 5 September 2020. AISA also organized Clay Day 2019, which took place in Potenza (Italy) at the University of Study of Basilicata on the 12th of December. The subject of Clay Day was “Clay sediments and phenomena of instability”. Three reports were presented, respectively, by Prof. E.M. Guadagno, (Department of Science and Technology for Ceramics, Sannio University) on “Clays, landslides and linear infrastructures, by Prof. F. Sdao, (School of Engineering, University of Basilicata) on “Clays and large landslides in Basilicata: study cases”, and by Dr. V. Summa, (Institute of Methodologies for Environmental Analysis, IMAA-CNR, Tito Scalo, Potenza) on “Correlations between clay sediments and instability phenomena”.

At the end of 2019, AISA consisted of 61 members, among whom 43 are Ordinary and 12 are Juniors. There are also 5 Life members and 1 Honorary member.

WORK PLAN FOR 2020:
Some members of the Italian Clay Group are organizing GEOHEALTH 2020 under the chairmanship of Dr. Saverio Fiore of CNR-IAM (Italian National Research Council - Institute of Methodologies for Environmental Analysis), together with Paolo Valera and Patrizia Zavattari, respectively from the Department of Civil Engineering, Environmental and Architecture and the Department of Biomedical Sciences of the University of Cagliari.

The material of the conference is available at: https://geohealth-scientists.org/

An open call for the submission of scientific session proposals ran out at the end of March and the call for abstracts commenced in September 2019. The conference will be organized as follows:

- AIR, SOIL & WATER POLLUTION & QUALITY
- BIOMINERALS & BIOMATERIALS
- ENVIRONMENTAL TOXICOLOGY & EPIDEMIOLOGY
- MINERALS & MATERIALS FOR A SAFER ENVIRONMENT
- RISK ASSESSMENT & COMMUNICATION
- TRACE ELEMENTS & HEALTH
- MISCELLANEOUS

We are planning to organize the next Clay Day 2020 in occasion of GEOHEALTH 2020 in Scalo. The aim is to involve some AISA group members to participate in some of the Conference Sessions.

AISA Council Board members 2018-2021
President: Vito SUMMA (Institute of Methodologies for Environmental Analysis, IM-AA-CNR, Tito Scalo, Potenza)
Secretary: Antonio LETTINO (Institute of Methodologies for Environmental Analysis, IM-AA-CNR, Tito Scalo, Potenza)
Treasurer: Saverio FIORE (Institute of Methodologies for Environmental Analysis, IM-AA-CNR, Tito Scalo, Potenza)

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Councillors:
Luca ALDEGA (Department of the Earth Sciences, University of Rome La Sapienza)
Mariano MERCURIO (Department of Science and Technology (DST), Department of the Earth Sciences, University of Sannio, Benevento)
Rocco LAVIANO (Department of the Earth and Geo-environmental Sciences, University of Bari)
Laura SCRANO (Department of European Cultures and Mediterranean (DCECM), University of Basilicata, Potenza)
Lara MARITAN (Department of Geo-sciences, University of Padova)
Chiara Zanelli (Institute of Science and Technology for Ceramics – IS-TEC-CNR, Faenza, Ravenna)

Bursaries
The CMG provided ~£3k in bursary funding to assist researchers and students to attend and present research at meetings and conferences. In 2019, the CMG also launched an additional, annual, prestigious bursary – the Mackenzie-MacEwan Award, named after two of our most eminent and founding members. Full details are available on the CMG webpages (https://www.minersoc.org/clay-minerals-group-bursary.html).

CMG Logo
The Group’s logo was first introduced in 1973 and incorporated the CMG letters on a hexagonal network of three contiguous plates of an (unspecified) clay mineral. For 2019, the logo has been refreshed, utilizing the previous brown and parent Mineralogical Society colour schemes and now proudly includes our 1947 formation date.

Images of Clay
This year the CMG, along with The Clay Minerals Society (USA), has re-launched the image archive ‘Images of Clay’ (https://www.minersoc.org/images-of-clay.html), held at the James Hutton Institute. The project aims to build a collection of high-quality images that are freely available to all to download for non-profit purposes, such as the teaching of clay mineralogy. Suitable images include electron micrographs of clay minerals, or indeed any image associated with the study of clay mineralogy. The CMG ran a competition to add the 100th image; the winner ‘beidellite on chamosite’ was submitted by Adrian Biron (Earth Science Institute of the Slovak Academy of Sciences) and was announced in Elements.

The Images of Clay competition winner ‘beidellite on chamosite’, submitted by Adrian Biron (Earth Science Institute of the Slovak Academy of Sciences).

Simon Kemp for CMG
December 2019.

HUNGARY

1. Board of the Hungarian Clay Group
The Hungarian Clay Group (HCG) is organized as the Clay Mineralogy Section affiliated to the Hungarian Geological Society (HGS). The board of the HCG - listed below - occupy their positions for the period 2018-2021 after having been elected in June 2018. The board consists of the following:

President: Erzsébet Harman-Tóth (Eötvös Museum of Natural History, Faculty of Science, Eötvös Loránd University, Budapest)
Secretary: Ivett Kovács (Institute for Geological and Geochemical Research, Research Centre for Astronomy and Earth Sciences, HAS, Budapest)

Members of the Committee:
- Brigitta Réka Balázs (Institute for Geological and Geochemical Research, Research Centre for Astronomy and Earth Sciences, HAS, Budapest)
- Izabella M. Farkas (MOL Plc., Group E&P Production Management, Applied Materials, Technologies & Laboratories, Geoscience Thematic Unit, Budapest)
- János Krisztóf (Department of Analytical Chemistry, University of Pannonia, Veszprém, Hungary)
- Tibor Németh (Department of Mineralogy, Faculty of Science, Eötvös Loránd University, Budapest; Institute for Geological and Geochemical Research, Research Centre for Astronomy and Earth Sciences, HAS, Budapest)
- Béla Bausz (Department of Mineralogy, Geochimistry and Petrology, Faculty of Science and Informatics, University of Szeged, Szeged)
- Péter Sipos (Institute for Geological and Geochemical Research, Research Centre for Astronomy and Earth Sciences, HAS, Budapest)
- Tamás G. Weiszburg (Department of Mineralogy, Faculty of Science, Eötvös Loránd University, Budapest)

Honorary Members of the Committee:
- István Dödony (retired from the Department of Mineralogy, Faculty of Science, Loránd University, Budapest in 2019)
- Mária Földvári (retired from the Geological and Geophysical Institute of Hungary, Budapest)
- István Vizeczi (Department of Mineralogy and Geology, Debrecen University, Debrecen)

Honorary President of the Committee: Ernő Nemecz (HAS Veszprém/Budapest)

2. Meetings of the Hungarian Clay Group in 2019
In 2019, the Hungarian Clay Group had 4 meetings, 3 of them organised jointly with other society branches.
and other minerals in climate change research and also to highlight their ecosystem services in soils.