



## The Clay Minerals Society



### FROM THE PRESIDENT

The impact of the information age is stimulating the formation of new habits in all of us. It seems essential that we learn to ride the ribbons of change leading to the future. An imperative of these new practices

is to try to speak to a wider audience, to try to close the gaps that have grown between once closely related sub-disciplines. The Clay Minerals Society is happy to participate in the launching of the new magazine *Elements* designed just for this, as well as other purposes. We welcome the stimulation from seeing ourselves more clearly within the context of the broader discipline of the mineral and geochemical sciences that you in the other participating societies will bring. In turn, we of The Clay Minerals Society hope that our commitment to encourage the advancement and promotion of and research in clay mineral sciences in the broadest and most liberal manner will attract you to our meetings and our journal. And we hope that *Elements* will attract the attention of people outside our disciplines and will enlighten those who legislate and fund many of our activities.

As the details that had to be dealt with during the gestation period surrounded us, we were all intrigued by the shaping of this publication, by the focus and dedication of those who had conceived it. We appreciate their efforts. This birthing process has been to date remarkably civilized as representatives of the five societies arrived at agreement after agreement on an unending supply of details. Only the future will tell us how successful this venture will be, but the effort given and the dedication shown promise *Elements* a long, useful life.

Dewey Moore,  
2004–2005 President of The Clay Minerals Society

### HISTORY AND DESCRIPTION OF THE CLAY MINERALS SOCIETY

The Clay Minerals Society (CMS; [www.clays.org](http://www.clays.org)) began as the Clay Minerals Committee of the U.S. National Academy of Sciences – National Research Council in 1952, in response to the need for a formal way to hold national clay conferences. By 1962, the Clay Minerals Committee had become strong enough to stand on its own, and The Clay Minerals Society was incorporated. From 1952 to 1964, proceedings of the annual conferences were published. The bimonthly journal *Clays and Clay Minerals* was first published in 1964.

The primary purpose of the CMS is to stimulate research and to disseminate information relating to all aspects of clay science and technology. Through its conferences and publications, the CMS offers individuals a means of following the many-sided growth of the clay sciences. Its international membership represents a diverse group because the study of clay touches upon so many fields. Members include clay mineralogists, crystallographers, physicists, chemists, geochemists, soil scientists, agronomists, ceramic scientists, civil engineers, petroleum geologists and engineers, and industrial scientists.

The CMS holds an annual conference, workshop, and field trips. Publications include the journal *Clays and Clay Minerals*, the *CMS Workshop Lectures*, special publications, annual meeting abstract volumes, and slide sets. The Society operates the Source Clays Repository, which provides clays for research

purposes, and offers professional and student awards along with student research and travel grants.

Each year, The Clay Minerals Society also awards several travel grants to CMS student members, in amounts up to \$500 per grant for students travelling within the country or region of the CMS Annual Meeting and in amounts up to \$1000 per grant for students travelling overseas to the meeting. There is no restriction as to nationality. Students with active CMS research grants are not eligible for separate travel grants. Students must submit an abstract for either an oral or a poster presentation to the CMS Annual Meeting. Complete application instructions and forms are available at [www.clays.org](http://www.clays.org) or from the Society Office ([cms@clays.org](mailto:cms@clays.org)). Applications must be received by April 1, 2005 at the Society Office. Electronic submission is preferred. Applicants will be notified by May 1, in time to make travel arrangements for the meeting.

The Marion L. and Chrystie M. Jackson Mid-Career Clay Scientist Award recognizes a mid-career scientist for excellence in the contribution of new knowledge to clay minerals science through original and scholarly research. For information, contact Paul Nadeau, Statoil ASA, Forus Hagen D-4, N-4035 Stavanger, Norway; [pnh@statoil.com](mailto:pnh@statoil.com).

The George W. Brindley Lecture Award recognizes a clay scientist who will infuse the Society with new ideas, who is a dynamic speaker and who is involved in innovative research. For information, contact Paul Nadeau, Statoil ASA, Forus Hagen D-4, N-4035 Stavanger, Norway; [pnh@statoil.com](mailto:pnh@statoil.com).

### STUDENT GRANTS

The Clay Minerals Society offers annually several student research grants in amounts up to \$2500 each through a competitive process. The grants provide partial financial support to masters and doctoral students for research in clay science and technology. Selection is based on the technical quality of the research proposal, the qualifications of the applicant, and the financial needs of the research project. There is no restriction with regard to nationality, and a student need not be a member to apply. Complete application information and forms are available at [www.clays.org](http://www.clays.org) or from the Society Office ([cms@clays.org](mailto:cms@clays.org)). Applications must be received by April 1, 2005 at the Society Office. Electronic submission is preferred. Grants will be awarded by September, 2005.

## CALL FOR NOMINATIONS FOR CMS AWARDS

The Clay Minerals Society solicits nominations for its 2006 awards. Nominations for the Jackson and Brindley Awards should include a letter of nomination, a full curriculum vitae, and two letters of support. Nominations for the Bailey Distinguished Member Award should include a letter of nomination, a full curriculum vitae, and three letters of support. Nominees need not be members of the CMS. All nominations must be received by the appropriate committee chairs by March 1, 2005. Electronic submission is preferred. See [www.clays.org](http://www.clays.org) for more information.

The Marilyn and Sturges W. Bailey Distinguished Member Award is the highest award of the CMS and is given for scientific eminence as demonstrated by scholarly publication of outstanding research in clay science. Technical contribution to clay science is the sole criterion for the award. Service to the Society, teaching, and administrative accomplishments are not to be considered. To submit a nomination, contact Alain Baronnet, CRMC2-CNRS, Campus de Luminy, Case 913, F-13288 Marseille Cedex 9, France; [baronnet@crmc2.univ-mrs.fr](mailto:baronnet@crmc2.univ-mrs.fr); 33-(0)4-91-41-89-16.

## GORGES, CLAYS, AND- COULEES: THE 41<sup>ST</sup> ANNUAL MEETING OF THE CLAY MINERALS SOCIETY

The 41<sup>st</sup> Annual Meeting of The Clay Minerals Society was held in Richland, Washington, June 19–24, 2004. Jim Amonette and Paul Gassman of Pacific Northwest National Laboratory (PNNL) in Richland hosted the meeting, and James Harsh of Washington State University in Pullman assisted with the technical program. The meeting was convened at the Red Lion Hotel, on the banks of the Columbia River in Richland and attended by approximately 150 clay scientists. The pre-meeting workshop on “Methods for Investigating Microbial-Mineral Interactions” was organized by Patricia Maurice (University of Notre Dame) and Lesley Warren (McMaster University) and held at the Environmental Molecular Sciences Laboratory at PNNL on June 19. The workshop was a great success with over 80 attendees. The pre-meeting field trip on the Missoula Floods and the Channeled Scabland was so popular that Bruce Bjornstad from PNNL led it on Sunday and again on Thursday at the end of the meeting. Duane Horton of

PNNL led a Tuesday field trip, also well attended, to the Hanford site. Tours of the Environmental Molecular Sciences Laboratory at PNNL were held on Tuesday.

Symposia included Adsorbates at Mineral Surfaces (organized by Jim Harsh and Cliff Johnston), Computational Clay Chemistry (Kevin Rosso), Illite Diagenesis a Quarter Century after Hower et al. (Georg Grathoff), Magnetic Resonance Spectroscopy of Clays (Herman Cho and Ravi Kukkada-pu), Microbial Impacts on Clay Transformation (Javiera Cervini-Silva and Hailang Dong), Oxide Nanomaterials: Synthesis, Properties, and Applications (Don Baer and Jim Amonette), and Zeolite and Feldspathoids (Shas Matigod). Talks in these sessions truly represented the state-of-the-art in their fields and highlighted the fact that the interdisciplinary nature of the CMS is one of its fundamental strengths.

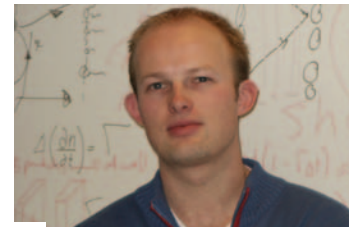


Benny Theng, recipient of the CMS Bailey Distinguished Member Award

Dr. Benny K. G. Theng of Landcare Research, Manaaki Whenua, New Zealand received the Marilyn and Sturges W. Bailey Distinguished Member Award. His lecture “Of Clays, Colloids, and Composites” highlighted his ongoing and highly productive research on clay-organic and clay-polymer interactions. The recipient of the Marion L. and Chrystie M. Jackson Mid-Career Clay Scientist Award, Dr. Fred J. Longstaffe of the

University of Western Ontario, spoke on “Basal Reflections of a Stable Isotopist: Revealing the Secrets of Fluids, Climate and Crystal Chemistry from the Clay Archive”. Dr. Hideomi Kodama, Researcher Emeritus at Agriculture and Agri-Food Canada, in Ottawa, was selected to give the Pioneer in Clay Science Lecture on the topic of “Clay-Organic Matter Interactions in the Soil Environment – 30 Years of Personal Contributions and Perspectives for Future Research”.

At the meeting the following students were judged to have given the best oral and poster presentations. Timothy J. Tambach of the University of Amsterdam received the best oral presentation award for his talk on “Molecular simulations of hysteresis in clay swelling”, and Jutta R. V. Pils of Iowa State University was runner-up for her talk “Sorption of tetracycline and chlorotetracycline on K- and Ca-saturated soil clays and humic substances”. Anja M. Schleicher of the Universität Heidelberg received the award for best poster presentation. The title of her poster was “Mesozoic hydrothermal illites in the altered Soultz-Sous-Forets Granite, France”. Pankaj Kulshrestha of The State University of New York, Buffalo, was runner-up for his poster on “Investigating the



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1. Timothy J. Tambach
2. Jutta R. V. Pils
3. Anja M. Schleicher
4. Pankaj Kulshrestha

molecular interactions of oxytetracycline in clay and organic matter: Insights on factors affecting its mobility in soil”.



Bram Bata Steel Drum Band

The organizers made a great effort to provide entertainment throughout the meeting and maintain a collegial atmosphere outside of conference halls. Dr. James C. Chatters, author of *Ancient Encounters: Kennewick Man and the First Americans*, delivered a fascinating lecture during the banquet. After the banquet, The Howlers Blues Band provided dance music in the hotel lounge. For the grand finale, a barbecue dinner was held on the last evening, with music by the Okay2Botay and Bram Bata Steel Drum Bands ([www.tcsba.org](http://www.tcsba.org)). These bands, composed of middle- and high-school students from the Tri-Cities area (Richland, Kennewick, and Pasco), play steel drums made by the original creator Ellie Mannette of Trinidad-Tobago. The music was fantastic and band leader Bren Leggett helped us learn about those intriguing steel drums. It was a great way to end the meeting on a happy note!



Fred Longstaffe, recipient of the CMS Jackson Mid-Career Clay Scientist Award



Hideomi Kodama, recipient of the CMS Pioneer in Clay Science Award