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The Clay Minerals Society

YOUR SOCIETY NEEDS YOU!



Ray E. Ferrell Jr.

December is a quiet time for most. That is, excluding the hustle and bustle of the religious and year-end festivities that distract us from our investigations of clayey materials. The frantic annual meeting preparations and presentations that crowd into October, November, and early December have subsided and are almost forgotten. Academics appear more at ease as they prepare that "last" lecture of the semester and begin the construction of that ever-important assessment tool, the final exam. Other professionals begin to relax as year-end reports near completion and expectations for the New Year and the new projects it will bring begin to occupy their thoughts. Students look forward to the break and the opportunity to do their own thing. My grandchildren, and others like them, are the only ones appearing to be dazzled and consumed by the task of preparing a "wish list" of their desires. As I watched them, I thought that a list of things that I, as your president, would like to have might be an appropriate request to pass on at this time of year. These are things that you can give to The Clay Minerals Society.

At the top of the list, and perhaps the one single thing I'd like, is your active participation in the activities and programs of the Society. Your councilors and the executive committee are actively pursuing programs that we feel will benefit you and the Society. A great deal of effort has been devoted to planning for shared meetings within and outside of North America. The April 2008 joint meeting with the Geochemical Division of the American Chemical Society is one initiative that we hope you will support with your attendance, thus stimulating cross-disciplinary exchange of scientific information. The CMS

has recently published a DVD with copies of all the papers published in *Clays and Clay Minerals* since 1952, in an effort to make all these contributions available to today's researchers. What else would you like us to do? Which committees would you like to serve on? Tell me how you and I can make the Society even better! Send your suggestions to me at rferrell@lsu.edu. My single, most fervent request is that you help me to make the CMS the best it can be.

Happy Holidays!

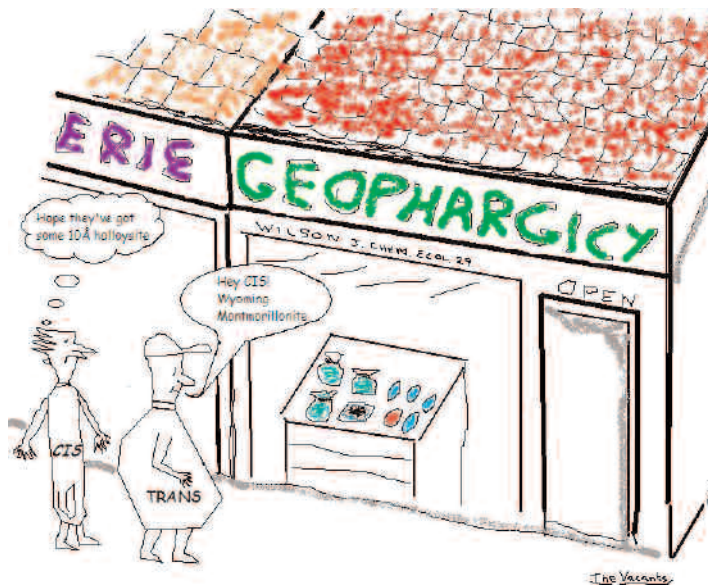
Ray E. Ferrell Jr.
CMS President

CLAYS AND CLAYS MINERALS DECEMBER 2007

- VASSILIS GIONIS, GEORGE H. KACANDES, IOANNIS D. KASTRITIS AND GEORGIOS D. CHRYSIKOS – Combined near-infrared and X-ray diffraction investigation of the octahedral sheet composition of palygorskite
- XIANDONG LIU, XIANCAI LU, RUCHENG WANG, HUIQUN ZHOU AND SHIJIN XU – Interlayer structure and dynamics of alkylammonium-intercalated smectites with and without water: a molecular dynamics study
- YUNCHUL CHO AND SRIDHAR KOMARNENI – Synthesis of kaolinite from micas and K-depleted micas
- MARIA BENTABOL, MARIA DOLORES RUIZ CRUZ AND JAVIER HUERTAS – Synthesis of Ni-rich 1:1 phyllosilicates
- MICHAEL A. WISE – Crystallization of "pocket" berthierine from the Pulsifer granitic pegmatite, Poland, Maine
- YUNCHUL CHO AND SRIDHAR KOMARNENI – Topotactic cation exchange in transformed micas under hydrothermal conditions
- HIDEO HASHIZUME AND BENNY K.G. THENG – Adsorption of adenine, adenosine, ribose, and 5'-amp by allophane, an aluminosilicate mineral of short-range order
- E. GARCÍA-ROMERO, M. SUÁREZ, J. SANTARÉN AND A. ALVAREZ – Crystallo-chemical characterization of the palygorskite and sepiolite from the Allou Kagne deposit (Senegal)
- MICHAŁ SKIBA – Clay mineral formation during podzolization in an alpine environment of the Tatra Mountains, Poland
- GEORG H. GRATHOFF, JOHN BAHAM, HEATHER R. EASTERLY, PAUL GASSMAN AND RICK HUGO – Mixed valent Fe-films (schwimmeisen) on the surface of reduced ephemeral pools

This is Derek Bain's last issue in charge of the journal, and he now hands over the reins to Joe Stucki. Once again, many thanks to Derek for his seven years of unstinting service to the Society and to the journal, and welcome and best of luck to Joe in his new role.

CLAYS FOR FUN



CIS and TRANS were eager to sample the wares in the new Geophargicy



**The Clay Minerals Society
announces**

Clays and Clay Minerals DVD Archive

Archive from 1952 to 2001
available **NOW** for sale:

Members: \$75
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**The Clay Minerals Society
announces**

the publication of two new volumes in
the CMS Workshop Lecture Series

Methods for Study of Microbe-Mineral Interactions

Volume 14 in the CMS Workshop Lecture Series
edited by Patricia A. Maurice and Lesley A. Warren

Articles

Introduction to microbial mineral interactions. Patricia A. Maurice and Lesley A. Warren
Counting and imaging bacteria on mineral surfaces. Phillip C. Bennett, Annette Summers
Engel and Jennifer A. Roberts

Analysis of (bio)geochemical kinetics of Fe(III) oxides. Susan L. Brantley, Shane Ruebush,
Je-Hun Jang and Ming Tien

Anaerobic microbial-minerals processes with Fe(III) oxides: Experimental considerations and
approaches.

John M. Zachara, James K. Fredrickson, Ravi K. Kukkadapu and Yuri A. Gorby

Methods for Study of Microbe-Mineral Interactions, CMS Workshop Lectures, Vol. 14, Patricia A. Maurice and Lesley A. Warren, eds., (2006) The Clay Minerals Society, Chantilly, VA. 166 pp. ISBN 978-1-481208-15-0

Clay-based Polymer Nano-Composites (CPN)

Volume 15 in the Workshop Lecture Series
edited by Kathleen A. Carrado and Faiza Bergaya

Articles

Overview of CPN, S. Xue and T.J. Pinnavaia

Melt-blending versus intercalative polymerization. P. Dubois

Clay mineral properties responsible for CPN performance. F. Bergaya and G. Lagaly

Advanced morphology characterization of CPN. L.F. Drummy, H. Koerner, B.L. Farmer and

R.A. Vaia

Metal nanoparticles on CPN films. K.A. Carrado and G. Sandi

....and others

Clay-based Polymer Nano-composites (CPN), CMS Workshop Lectures, Vol. 15, Kathleen A. Carrado and Faiza Bergaya, eds., (2007) The Clay Minerals Society, Chantilly, VA. 278 pp. ISBN 978-1-481208-16-7

Available for \$25 (members) and \$30 (non-members) each (includes surface shipping)
To order, please download an order form from our website.

For more information on The Clay Minerals Society and its publications, please visit our website at www.clays.org.



**CLAY MINERALS SOCIETY
STUDENTS**

Join Today!

How do these crystals grow and why do we care?

*If you're interested you should join the Clay Minerals Society!
We want you and your ideas. Step up and be heard.*

Visit www.clays.org/membership to join

How much?

Student* Member + Journal (*requires advisor verification)	US\$ 20.00 (What a good deal!)
Membership (non student)	US\$ 40.00
Membership + Journal	US\$ 85.00

(Members may nominate a student for free membership; one per year)

What do I get?

- Student members can compete for Research Grants (up to US\$ 3000)
- Student Travel grants to CMS meetings include a one-year membership.
(up to US\$ 1000 for domestic or US\$ 1500 for foreign travel)

Upcoming meetings will be in:

<i>New Orleans, Louisiana</i>	2008
<i>Butte, Montana</i>	2009
<i>Spain</i>	2010

Why join?

- Friendly, small meetings allow you to meet, question, and learn from specialists in clay & nano-science.
- Make connections for jobs in academia, industry and government
- Workshops and field trips keep members up to date on recent technological advances in our field.
- The journal *Clays and clay minerals* (free on-line access), free subscription to Elements Newsletter.