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The Clay Minerals Society



IN MEMORY OF JOE WHITE

Dr. Joe Lloyd White, Emeritus Professor of soil chemistry and mineralogy, Purdue University in West Lafayette, Indiana, USA, died on October 5, 2005, at age 83. He was born and raised in Oklahoma, the son of Claud and Alta (Denney) White. He received both his BS and MS in soil science at

Oklahoma State University, and was awarded his PhD in soil chemistry and mineralogy from the University of Wisconsin under the direction of Prof. M.L. Jackson. He joined the Department of Agronomy at Purdue in 1947 and retired in 1988, after a distinguished 41-year career.

His career began in the post-World War II era when new techniques and equipment were emerging to advance scientific knowledge and discovery. He recognized the value of new advances in chemistry, such as infrared spectroscopy, and was a pioneer in bringing them into agronomy research and environmental molecular science. His research was at the forefront of soil chemistry and mineralogy, which led to significant improvements in environmental stewardship and improved crop productivity. Dr. White developed a highly successful collaboration with Dr. Stan Hem in the Pharmacy Department where these ideas were applied to research in pharmacy, including studies on antacids, adjuvants for vaccines, antiperspirants, and lake dyes, all based on hydroxy-aluminum compounds.



Joe (left) and Prof. Jim Ahlrichs demonstrating how an organic molecule interacts with a clay surface (ca. 1960).

He was active in dozens of professional societies, including The Clay Minerals Society, the Soil Science Society of America, the American Chemical Society, and the American Society of Agronomy. Throughout his illustrious career, he received many awards and honors both in the United States and in many other countries. Among these, he was appointed Distinguished Member of The Clay Mineralogy Society in 1990 and he received the Pioneer in Clay

Science Award in 1994, honoring his lifetime scientific achievements through interdisciplinary research.

Dr. White published over 190 papers on a wide range of topics. Even though he "officially" retired in 1988, he remained very active, attending scientific meetings and participating in research group meetings. He served on the council of The Clay Minerals Society and was a Fellow of the Mineralogical Society of America, the American Society of Agronomy, the Soil Science Society of America, the American Institute of Chemists, the Royal Society of Chemistry, and the American Association for the Advancement of Science.

Joe White was devoted to his family. On May 29, 1945 he married Wanita Irene Robertson. They celebrated their 60th wedding anniversary last May, with their five children and their families, including eleven grandchildren and one great-grandson. Joe White was a gentle intellectual and spiritual giant who was loved by all who knew him. His humble and kind spirit will remain in our hearts forever.

ANNUAL MEETING REMINDER

Make your travel arrangements NOW!

Plan to attend the

43rd ANNUAL MEETING of The Clay Minerals Society

to be held jointly with
the French Clay Group

(Groupe Français des Argiles), June 3–7, 2006,
Oléron Island, France

Located off the French coast in the Bay of Biscay, south of La Rochelle and north of the Gironde Estuary, Oléron is the second largest French island (after Corsica). Linked to the mainland by a bridge, the island and its beaches are a popular destination offering many opportunities: sailing, beach activities, local specialties, and delicious seafood.

Convenor: Sabine Petit

Website: www.c2s-organisation.com/gfacms06

E-mail: sabine.petit@hydrasa.univ-poitiers.fr

Tel.: 33-(0)5-49-45-37-56

Workshop: Polymer-Clay Nanocomposites, by Faiza Bergaya and Kathleen A. Carrado

TRAVEL

By train

Several Paris-Poitiers direct connections per day by high-speed train (TGV):

- from/to Paris airport (Roissy, Charles de Gaulle – TGV railway station), travel duration: 2h 30m
- from/to Paris downtown (Montparnasse railway station), travel duration: 1h 30m to 1h 50m

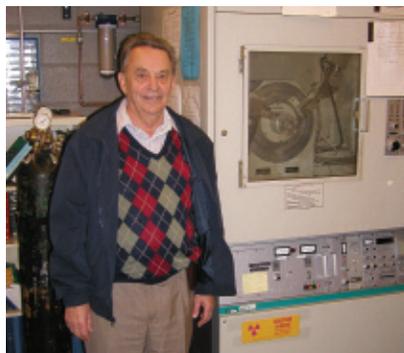
To check the TGV schedules and prices and to book a ticket online, please consult the SNCF website: www.sncf.fr

By plane

A daily London (Stansted)-Poitiers connection

www.poitiers.cci.fr/aeroport/lignes/ryanair_londres.asp

This should be a fantastic opportunity to visit the famous clay localities of France (Montmorillon and Nontron). Note that the island is located just off the Bordeaux region of France, home to beautiful 17th-century castles and full of history. Plan to bring your family and stay for an early summer vacation.



Victor Drits

visited the Bob Reynold's Laboratory at Dartmouth College, after Bob's memorial service in June, 2005.

3rd EUROPEAN WORKSHOP IN CLAY GEOSCIENCES**CHARACTERIZATION OF SOLID-WATER INTERFACE REACTIONS OF METALS AND ACTINIDES ON CLAYS AND CLAY MINERALS****March 14–15, 2006****University of Jena (Germany),
Geoscience Department**

The 3rd European Workshop of Clay Geosciences (ACTINET workshop) will focus on improving our understanding of solid-water interactions and will be of particular interest to those dealing with remediation of contaminated sites. Water-solid reactions are of widespread interest because they are fundamental to a large number of geochemical processes. Our understanding of processes that occur at the solid-water interface has dramatically increased over the past several years. This is largely due to the application of new or improved experimental techniques. Many of these techniques will be covered, including time-resolved laser fluorescence laser spectroscopy, which allows the in situ measurement of the binding form of trivalent actinides, and use of synchrotron radiation sources, which enables in situ identification of the species at mineral surfaces in the presence of reacting solutions.

ORGANIZED BY**Dr. Andreas Bauer**

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FOR REGISTRATION SEE:
[www.igw.uni-jena.de/ahgeol/
Workshops/actinet.html](http://www.igw.uni-jena.de/ahgeol/Workshops/actinet.html)

STUDENT MEMBERSHIP

The Clay Minerals Society offers a reduced student membership rate of only \$15 per year, entitling students to:

- a subscription to *Clays and Clay Minerals*[®], a leading journal in the field of clay science
- online access to *Clays and Clay Minerals*[®]
- for North Americans, free membership in AIPEA, the international clay organization
- awards for best student papers and posters presented at the annual meeting
- the Source Clays Project, which provides homogenous clay samples for research purposes
- member discounts on publications of CMS and MSA
- discounts on selected books of interest to clay scientists from other publishers
- the most up-to-date information on the society's latest publications and registration materials for the annual CMS conference, including workshops and field trips
- free subscription to *Elements*

The Marilyn and Sturges W. Bailey Distinguished Member Award is the highest honor of The Clay Minerals Society (CMS). It is awarded solely for scientific eminence in clay mineralogy (in its broadest sense) as evidenced primarily by the publication of outstanding original scientific research and by the impact of this research on the clay sciences. This award is not restricted to members of CMS.

The Pioneer in Clay Science Lecture recognizes research contributions that have led to important new directions in clay minerals science and technology.

The George W. Brindley Lecture recognizes a clay scientist who will infuse the society with new ideas, someone who is both a dynamic speaker and involved in innovative research. Dr. Brindley himself approved the concept of

CMS NEWS AND REMINDERS**Website Update**

Papers from the October 2001 issue of *Clays and Clay Minerals*, a special issue on baseline studies of the Clay Minerals Society Source Clays, are now available free to all. The decision to make these freely available was made at the June 2005 council meeting, and curators of the Society's Source Clays, which are housed at Purdue University, will now be able to direct purchasers of samples to the papers online. Go to www.clays.org/sourceclays/SourceClaysCCM.html

Journal Highlights

The December 2005 issue of *Clays and Clay Minerals* includes the following papers of interest from a session entitled "Microbial Impacts on Clay Transformation and Reactivity," held during the 41st annual meeting of the Society (2004).

Sarah E. Hepinstall, Benjamin F. Turner, and Patricia A. Maurice
Effects of siderophores on Pb and Cd adsorption to kaolinite

Nidhi Khare, Carrick M. Eggleston, and David M. Lovelace

Sorption and direct electrochemistry of mitochondrial cytochrome C on hematite surfaces

Jin-wook Kim, Yoko Furukawa, Hailiang Dong, and Steven W. Newell

The role of microbial Fe(III) reduction on smectite flocculation

Evgenya Shelobolina, Sam M. Pickering, and Derek R. Lovley
Iron cycle bacteria from industrial clays mined in Georgia, USA

A full list of the contents in this and other issues is available at <http://gscem.highwire.org/> or at <http://www.ingentaconnect.com/content/cms/ccm>.

Student Research and Travel Grant Applications due March 20

The Clay Minerals Society annually awards several grants of up to \$2500 through its student research grant program.

Purpose

The research grant program is designed to provide partial financial support to graduate students doing master's and doctoral research in clay science and technology.

Selection Criteria

Applications will be judged on a competitive basis. The qualifications of the applicant and the objectives, design, and financial need of the project are evaluated. Applicants selected will be nominated by a five-member CMS committee and approved by the CMS Council. The grant awarded for the best proposal each year is named the Robert C. Reynolds Jr. Research Award. **Awards will be made by September 1, 2006.**

Travel grants can be requested for up to \$500 per grant for intracontinental travel or \$1000 for intercontinental travel to attend the CMS meeting. Funds can be used to pay for: (1) meeting registration at the student rate, (2) field trip(s) that are part of the meeting, (3) CMS banquet ticket, (4) premeeting workshop, (5) travel, and (6) lodging.

[www.clays.org/home/awards/
HomeAwardsAndGrantsSRG.html](http://www.clays.org/home/awards/HomeAwardsAndGrantsSRG.html)

Awards Nominations Solicited for the March 1 Deadline

the lecture, and the speaker should deliver a lecture that Brindley himself would applaud.

The Marion L. and Chrystie M. Jackson Mid-Career Clay Scientist Award recognizes mid-career scientists for excellence in the contribution of new knowledge to clay minerals science through original and scholarly research. The awardee is to be within the ages of 39 and 60.

Nominations for all awards consist of a cover letter from the nominator, a curriculum vitae, and at least two supporting letters. Details for electronic submission are at: www.clays.org/home/awards/HomeAwardsAndGrants.html