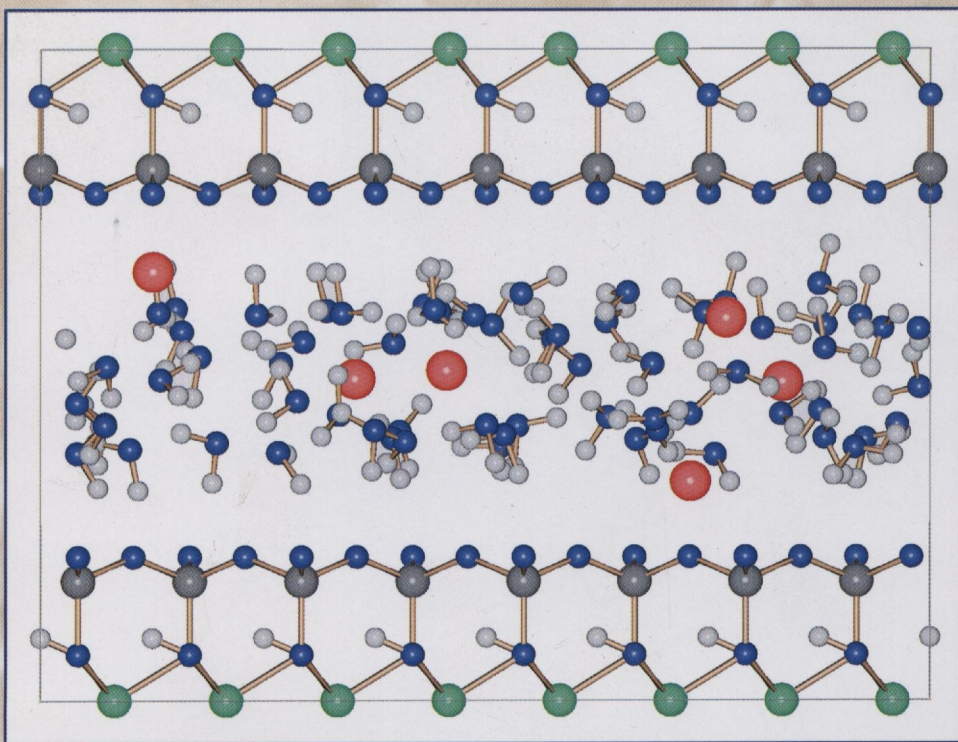


clays and clay minerals[®]



Journal of The Clay Minerals Society
devoted to clays in the earth, environment, technology and industry

Now online at cms.lanl.gov



Volume 52

Clays and Clay Minerals

Volume 52 Number 5 October 2004

Contents

Clay minerals in the Meuse-Haute Marne underground laboratory (France): Possible influence of organic matter on clay mineral evolution <i>Francis Claret, Boris A. Sakharov, Victor A. Drits, Bruce Velde, Alain Meunier, Lise Griffault and Bruno Lanson</i>	515
Smectite-to-illite alteration in salt-bearing bentonites (the East Slovak Basin) <i>M. Honty, P. Uhlík, V. Šucha, M. Čaplovičová, J. Franců, N. Clauer and A. Biroň</i>	533
Heterogeneous mixed-layer clays from the Cretaceous Greensand, Isle of Wight, southern England <i>Douglas K. McCarty, Victor A. Drits, Boris Sakharov, Bella B. Zviagina, Alastair Ruffell and Grant Wach</i>	552
Modeled shale and sandstone burial diagenesis based on the K-Ar systematics of illite-type fundamental particles <i>Norbert Clauer, Davy Rousset and Jan Šrodoň</i>	576
Measurement of clay surface areas by polyvinylpyrrolidone (PVP) sorption and its use for quantifying illite and smectite abundance <i>A. E. Blum and D. D. Eberl</i>	589
Na biotite and intermediate Na-K biotite in schists from the Betic Cordilleras (Spain) <i>María Dolores Ruiz Cruz</i>	603
Parallel intergrowths in cronstedtite-1T: implications for structure refinement <i>Slavomil Ďurovič, Jiří Hybler and Toshihiro Kogure</i>	613
Very low-temperature alteration of sideromelane in hyaloclastites and hyalotuffs from Kilauea and Mauna Kea volcanoes: implications for the mechanism of palagonite formation <i>Ahmed Drief and Peter Schiffman</i>	622
Dehydration and rehydration of palygorskite and the influence of water on the nanopores <i>Wenxing Kuang, Glenn A. Facey and Christian Detellier</i>	635
Interactions of two sulfonylurea herbicides with organoclays <i>María Jose Carrizosa, María del Carmen Hermosin, William C. Koskinen and Juan Comejo</i>	643
Effects of γ radiation on chromate immobilization by calcined hydrotalcites <i>Sonia Martínez-Gallegos and Silvia Bulbulian</i>	650
Book review	657
Forthcoming papers	658

Annual Sustaining Members, Patrons and Benefactors of The Clay Minerals Society

Benefactors

ExxonMobil Upstream Research Co.
Southern Clay Products, Inc.

Patrons

ChevronTexaco ETC
IMERYS
Thiele Kaolin Company
Nestlé Purina PetCare Company

Members

Burgess Pigment Company
H. H. Murray and Associates
Kentucky-Tennessee Clay Company
Oil-Dri Corporation of America
Wyo-Ben, Inc.

Individuals

Joe B. Dixon
Jessica Elzea Kogel
Steven B. Feldman

Stephen Guggenheim
Necip Güven
Phoebe Hauff
W. D. Johns
B. F. Jones
Kenneth M. Towse
Joe L. White

ISSN 0009-8604
CCM PA52(5)515-658(October)