

The Clay Minerals Society

www.clays.org

THE PRESIDENT'S CORNER



This is my first President's Corner as your new president. First, I would like to thank you for the opportunity to lead the Clay Minerals Society (CMS). I am looking forward to a great year! Second, I want to encourage you to participate in our 2021 CMS Annual Meeting. This will be a virtual event, to be held 14–15 October 2021, and will focus on clay minerals in healthcare applications. We will also have our annual business meeting during this event. It will be free for CMS members, so I encourage everyone to attend. Please check our website for details: www.clays.org.

Also coming up in October are two annual celebrations of science. Many of us are familiar with Earth Day, which takes place in April. Professional societies use a similar mechanism to promote the public understanding and appreciation of their disciplines. Those with ties to chemistry may be familiar with National Chemistry Week. There is also an annual Earth Science Week. Both events engage with the public from the local to the national level, with a specific focus on developing interest among future scientists. Below are the details for both events.

- Earth Sciences Week, "Water Today and for the Future", to be held 10–16 October 2021. See <https://www.earthsciweek.org>.
- National Chemistry Week, "Fast or Slow...Chemistry Makes It Go!", to be held 17–23 October 2021. See <https://www.acs.org/content/acs/en/education/outreach/ncw.html>.

I can tell you from personal experience that outreach to the public—particularly to students—is extremely rewarding. Of course, outreach activities do not need to take place only during a special weeks: it can still be done during a pandemic using online resources. I encourage you to get involved!

Jeffery Greathouse (CMS President)

INTERNATIONAL WORKSHOP ON CLAY MINERALS IN HEALTHCARE APPLICATIONS

14–15 October 2021

Renowned experts were among those who presented on the diverse topics within clay minerals in healthcare applications. Discussions ranged from historical aspects linked to traditional medical and pharmaceutical uses to the use of clays in gene transfection, done by making DNA associate with certain clay minerals.

The program was based on two special issues of *Clays and Clay Minerals* entitled "Clay Minerals in Health Applications" and "Clay Minerals in Healthcare", which are to be published in 2021 and that will incorporate contributions by colleagues from the Qing Yang Institute for Industrial Minerals (China).

Speakers for Day 1

- Lynda Williams et al., "Evaluating in vivo applications of a natural antibacterial clay to wound infection".
- Pilar Aranda et al., "Clay-based bionanocomposite films for wound dressing applications".
- Bernard Lopez et al., "Response of mammalian cells to interaction with sepiolite".
- Giora Rytwo et al., "Health protection using clay minerals: a case study based on the removal of BPA and BPS from water".
- Yuri Lvov et al., "Halloysite Nanotube Vehicles for Drug Delivery through Brain Endothelial Barrier".

- Rawil Fakhruddin et al., "Self-assembly of halloysite nanoclay for hair surface engineering".
- Ana Alcântara and Vera Constantino, "Layered clays as versatile nanodevices to drug delivery systems".
- César Viseras and Alberto Galindo et al., "Clays in cosmetics and personal care products".

Speakers for Day 2

- Goeun Choi et al., "Exfoliated anionic clay-niclosamide nanoassembly as repurposed antiviral drug tackling COVID-19 oral formulation with Tween 60/Eudragit S100".
- Li Li, "Engineering nanoclay for mucosal vaccine delivery".
- Chao Peng Fu et al., "Nanohybrids of metal particles and layer silicate clay for SERS detection".
- Daehwan Park, "Bio-convergence system of layered double hydroxide nano clay".
- Nafeesa Khatoun et al., "Clay nanoparticles in photodynamic therapy".
- Jia Hui Liu et al., "Thermodynamic and electrokinetic behaviors of montmorillonite colloid and implications in biotechnology".
- Cunjun Li, "Double emulsion stabilized by phosphatidylcholine-kaolinite for co-delivery of curcumin and catechin".
- Felycia Edi Soetaredjo et al., "Controlled release of doripenem intercalated into Ca-montmorillonite".
- Hailiang Dong, "Clay minerals as antibacterial agents: mechanisms and applications".
- Jing Yi Liu and Guo Hua Li, "Study on the toxicity of organically modified montmorillonite in mice".

To facilitate speakers from different continents, Day 1 commenced at 8.00 a.m. EDT and Day 2 at 8.00 p.m. EDT. This was a virtual event only, hosted on Zoom. For more information about this successful workshop, visit <https://www.clays.org/2021-workshop/>.

JUNE 2021 ISSUE OF CLAYS AND CLAY MINERALS

"Review: Progress with functional materials based on loess particles"

Ya Shen, Haiyan Yan, Ringmin Wang, Pengfei Song and Yufeng He

"Geochemistry and mineralogy of ice-dammed lake sediments of the Lębork Deposit"

Radosław Rogoziński and Alina Maciejewska

"Effect of montmorillonite layer charge on the thermal stability of bentonite"

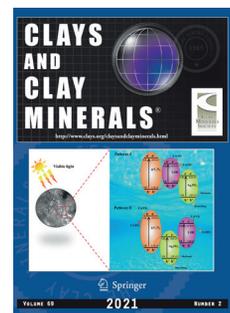
Yating Qin, Tongjiang Peng, Hongjuan Sun, Li Zeng, Yao Li, and Can Zhou

"Processing and characterization of low-thermal conductivity, clay-based, ceramic membranes for filtering drinking water"

Mohamed Mouafon, Gisèle Laure Lecomte-Nana, Nicolas Tessier-Doyen, Andre Njoya, Dayirou Njoya, and Daniel Njopwouo

"Sustained antibacterial effect of levofloxacin drug in a polymer matrix by hybridization with a layered double hydroxide"

Su-Joung Ko, Jin-Song Jung, Gyeong-Hyeon Gwak, Hyoung-Jun Kim, Fabrice Salles, and Jae-Min Oh



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