

## SEM 2022 ANNUAL MEETING IN BAEZA

The 39<sup>th</sup> Annual Meeting of the Spanish Mineralogical Society (SEM) was held on 28 June–1 July 2022, in Baeza (Jaén, Spain) (FIG. 1). The meeting was organized by the University of Jaén and coordinated by Isabel Abad and África Yebra. This year, we had a special meeting as it was also the Annual Meeting of the Spanish Clays Society (SEA) with which there is a long and close relationship (FIG. 2).

The program for the SEM-SEA 2022 meeting included a two-day workshop, a field trip to the Linares mining district, plenary conferences, posters, and oral presentations.



**FIGURE 1** Opening ceremony of the SEM-SEA conference during the intervention of the coordinators (Isabel Abad, LEFT, África Yebra, RIGHT).

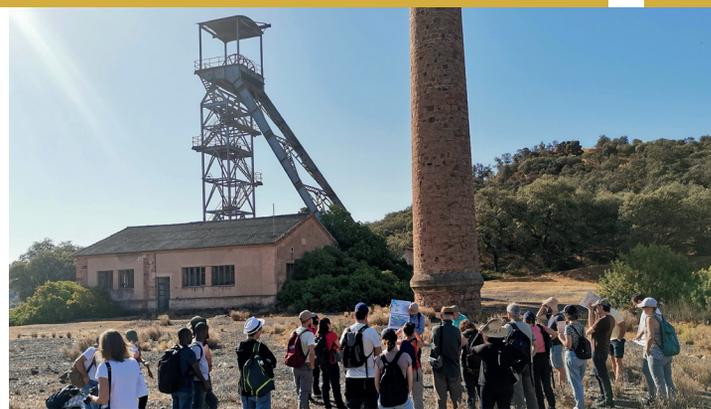


**FIGURE 2** Attendees of the SEM-SEA meeting.

### Workshop Seminar

A two-day workshop seminar entitled *Continental sediment metal contamination by agricultural, industrial and mining activities: mineral processes and bioavailability* took place on 28–29 June. The aim of the seminar was to present and discuss new perspectives and ideas about metal contamination in sediments mediated by anthropic activities, mainly for young scientists. Scientists and professionals of international prestige in this field gave the following lectures:

- **Industrial trace element contamination in wetlands: the effect of the precipitation of biogenic sulfides** (Beata Smieja-Król, University of Silesia, Poland)
- **Reactivity of clays and metal nanomaterials in waters and sediments from saline wetlands: the role of the bacterial communities** (Rosario Jiménez-Espinosa and Juan Jiménez-Millán, University of Jaén, Spain)
- **Metal mobility in acid mine drainage-impacted waters: from rivers to oceans** (Rafael Pérez López, University of Huelva, Spain)
- **The impact of nanomaterials on the Earth systems** (Michael F. Hochella Jr. Virginia Tech University, USA)
- **Metal sorption processes by clay minerals in soil and sediments** (Tibor Nemeth, Eötvös Loránd University, Hungary)



**FIGURE 3** Participants on the field trip (Linares mining district).

On the second day, a scientific excursion (metal pollution in hydrographic networks of abandoned mining basins) to the Linares Mining District was programmed (FIG. 3). The lectures have been published in volume 15 of the journal *Seminarios de la Sociedad Española de Mineralogía*, which can be downloaded from the SEM website (<https://www.semineral.es/websem/>).

### Posters and Oral Presentations

The scientific sessions took place on 30 June–1 July and, in addition to the 100 contributions (52 oral communications and 48 posters) about mineralogy, petrology, geochemistry, mineral deposits, and clay minerals, three plenary lectures were included: *La contaminación del suelo por la minería metálica de la Faja Pirítica Ibérica* (Juan Carlos Fernández Caliani), *Designed structure and functions of the hybrids between smectites and water-soluble polymer* (Makoto Ogawa), and *Desde el manto terrestre hasta Cumbre Vieja (La Palma): La erupción volcánica de 2021* (José Mangas Viñuela). The main objective was to hold high-quality scientific sessions that could become a platform for debate, the exchange of ideas, and the establishment of new scientific collaborations. A program of grants and awards encouraged the participation of young researchers. The scientific contributions have been published in volume 29 of *Macla*, the journal of the SEM, which is available at the SEM website (<http://www.semineral.es>).

### Awards for Young Researchers

Three awards for young researchers were given to the best presentations at the conference by the two scientific societies, SEM and SEA. The winners were Diego Domínguez-Carretero (Universitat de Barcelona, Spain) for the oral presentation (*Nano*)-partículas de Au-Ag en sulfuros masivos volcanogénicos de la ofiolita de Habana-Matanzas, Cuba; Alex Tiewin Abu (Universitat de Barcelona, Spain) for the poster *The role of siderite on abiotic nitrite reduction by dissolved Fe(II)*; and Mar Morales-Hidalgo (Universidad de Granada, Spain) for the oral presentation *Influencia de la comunidad microbiana de la bentonita en la biotransformación del Se(IV) y la corrosión del cobre a altas temperaturas* (FIG. 4).



**FIGURE 4** Winners of the young researcher awards Diego Domínguez-Carretero, Alex Tiewin Abu, and Mar Morales-Hidalgo with Fernando Nieto (SEA president, LEFT) and Blanca Bauluz (SEM president, RIGHT).

Isabel Abad and África Yebra, coordinators of the SEM-SEA 2022 (Universidad de Jaén)