



Japan Association of Mineralogical Sciences

http://jams.la.coocan.jp/e_index.html

The Japan Association of Mineralogical Sciences (JAMS) is proud to announce the recipients of its 2021 society awards. The **Japan Association of Mineralogical Sciences Award** is presented to a maximum of two scientists in any one year for exceptional contributions to mineralogical and related sciences. The **Manjiro Watanabe Award**—named in honor of Professor Manjiro Watanabe, a famous Japanese mineralogist, and founded by his bequest—is awarded every year to one scientist who has significantly contributed to mineralogical and related sciences over his or her career.

JAPAN ASSOCIATION OF MINERALOGICAL SCIENCES AWARD TO TOMOAKI MORISHITA



Tomoaki Morishita is a professor at the School of Geosciences and Civil Engineering, Kanazawa University, Japan. He has studied mantle-derived and related rocks and contributed to studies of the mantle evolution of oceanic plates from mid-ocean ridge to subduction and the subarc mantle. He studied at the Horoman Peridotite Complex in Samani, Japan, from his undergraduate to PhD under the supervision of Prof. Shoji Arai. The discovery of corundum-bearing mafic

rocks by him and his collaborators suggested the possibility of the recycling of subducted lower oceanic crustal materials in the mantle. Since then, he has been investigating ultramafic rocks around the world from ophiolites, orogenic belts, xenoliths, and the ocean floor to better understand partial melting, melt–rock interactions, and metasomatism in the mantle. Dr. Morishita had the opportunity to learn laser ablation ICM-MS analysis for trace element analysis of minerals during his post-doctoral research, and was involved in setting up the laser ablation ICP-MS system installed at Kanazawa University. Dr. Morishita is also actively involved in the Integrated Ocean Drilling Project (IODP) and International Continental Scientific Drilling Program (ICDP). He played an important role as a member of the international scientific evaluation committee on drilling proposals and proposed scientific drilling projects to investigate areas such as oceanic plates subjected to plate bending prior to subduction, as well as intact mantle drilling of the oceanic plate. He currently serves on the editorial board of *Scientific Drilling*, which is an interdisciplinary journal that reports the latest scientific results, scientific drilling proposals, and related programs to the geoscience community.

MANJIRO WATANABE AWARD TO TAKAMITSU YAMANAKA



Takamitsu Yamanaka received a Master of Science from State University of New York, USA, and a Doctor of Science from the Graduate School of Science, Tokyo University, Japan, in 1972. He was a professor in the Department of Earth and Space Science at Osaka University (1994–2006) and is currently a professor emeritus at Osaka University (Japan). After his retirement, he was invited to be a senior visiting investigator at the Geophysical Laboratory,

Carnegie Institute of Washington (USA) (2006–2013). Subsequently, he moved to be a visiting researcher at the Center for High Pressure Science & Technology Advance Research in Shanghai, China (2015–), and continues his research there to this day.

His major scientific interest is mineral physics and crystal chemistry under extreme conditions. He studied magnetic and structural changes induced by lattice–electron interactions under high pressure using

synchrotron X-ray, neutron diffraction, Mössbauer resonance, magnetic measurements, and electrical resistivity measurements. He has developed extensive equipment and facilities at PF (KEK), SPring-8, and NSLS (Brookhaven, USA) for crystal structure studies at high pressure and high temperature.

His domestic academic activity is as President of the Mineralogical Society of Japan, Chairman of National Committee for Mineral Science in Japan, Member of the National Committee for Crystallographic Science, and finally he holds the position of Japanese Science Councilor (JSC). He is also vigorously working to promote the international scientific activities. He was the Chairman of the Committee of Mineral Physics of the International Mineralogical Association (IMA) and a Committee Member of the Powder Diffraction of International Union of Crystallography (IUCr). He took the position of Vice President and accepted the designation as President of the IMA (2006–2008). He was on the advisory boards of *Zeitschrift für Kristallographie* and of the ICDD journal *Powder Diffraction*. He was awarded as a Fellow of the Mineralogical Society of America (MSA) and a Medal of Contribution to ICDD-JCPDS.

Dr. Yamanaka has dedicated almost his whole career to mineral physics and crystal chemistry and has devoted himself to Earth sciences.

17th CONGRESS OF WATER–ROCK INTERACTION (WRI-17) AND 14th APPLIED ISOTOPE GEOCHEMISTRY (AIG-14) IN SENDAI, JAPAN

The Joint International Conference of the 17th Congress of Water–Rock Interaction (WRI-17) and the 14th Applied Isotope Geochemistry (AIG-14) (called the 2nd International Applied GeoChemistry Conference, IAGC-2) focus on an extensive range of interactions between fluids (water, petroleum, and gases) and solid materials, especially rocks including extraterrestrial matter. The symposium will be held in Sendai, Japan, on August 18–22, 2023. Registration is open to all scientists and students who want to share their research and learn about the latest developments in the broad fields of water–petroleum–gas–rock interactions at low to high temperatures and pressures, using the latest isotopic, chemical, and simulation tools and methods. The symposium will bring together scientists from academia, government, and business engaged in water–petroleum–gas–rock research. We will have plenary and keynote presentations by world-renown scientists. Selected presentations will be published in the *Geochemical Journal* and *Applied Geochemistry* as special issues with peer-review editing.

The Organizing Committee particularly emphasizes in-person conferences, which provide the most important human interactions among the young, elderly, and people from different countries and diverse research fields. World-leading researchers from all over the world are invited to give a presentation. The WRI-17 and AIG-14 conferences feature all aspects of water–petroleum–rock interactions, with an emphasis on such growing fields as deep WRI or the deep carbon cycle, the roles of fluids with respect to reaction kinetics and timescales, sub- and super-critical geothermal energy, WRI fronts to climate change, AI and big data analysis for geoscience, environmental and isotope forensics, and new tools for geochemical analysis and nanoscience, as well as sessions on classical aspects of isotopes and water–rock interactions.



The 2nd International Association of Geochemistry (IAGC) Conference
Water–Rock Interaction WRI-17
Applied Isotope Geochemistry AIG-14
in SENDAI 2023

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1st AWARD CEREMONY FOR THE BEST BACHELOR'S THESIS (2022)

The 1st award ceremony for the Best Bachelor's Thesis was held on 21 November as an on-line event. The SEM is aware of the importance of promoting the training of young students in mineralogy, geochemistry, petrology, and deposits. These awards have been created to encourage these disciplines in undergraduate students.

Fourteen undergraduate students from different universities in Spain (Oviedo, Basque Country Zaragoza, Barcelona, Madrid, Alicante, Murcia, Granada, and Huelva) participated. Contributions included topics on experimental mineralogy, synthesis and crystal growth, descriptive petrology, interpretation of geochemical data, hydrogeochemistry, geoarchaeology, mineral deposits, and water contamination and remediation. The applicants defended their work in five-minute oral presentations. A delegated committee of the SEM executive council evaluated the bachelor's thesis and oral presentations. Additionally, the ceremony included an invited lecture: "My experience on research: from curiosity to scientific contribution" given by Nuria Pujol (University of Granada).

Three awards were given for the best bachelor's thesis and oral presentations of the ceremony (Fig. 1). The winners were as follows:



FIGURE 1 LEFT TO RIGHT: Carlos Espinoza Enriquez de Luna, Alejandro Andrés Escorihuela, and Sara Romero Cruz.

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We will conduct oral and poster sessions entitled "Cosmo- & Geochemistry," "Solid and Fluid Earth," "Geosphere-Biosphere Interaction & Environment," "Geoengineering & Carbon Neutral," and "Applied Isotope Geochemistry."

We will keep the spirit of the symposium defined as "water-rock-human interactions" by providing meeting opportunities during lunch, poster sessions, and coffee breaks. We will also organize one-day mid-session field trips for all participants and optional post-symposium field trips. We will also organize cultural activities for the accompanying members. During the symposium, we will visit the crater lake in Zao Volcano, natural hot springs, one of the three most beautiful landscapes in Japan, Matsushima Island, and more. After the conference, participants will have a chance to climb Fuji Mountain, go to Nikko, and explore the hidden treasures of Japan.

Our goal is to organize a meeting with a friendly atmosphere allowing participants from different countries to cooperate and find new opportunities to collaborate. We are looking forward to seeing all of you in Sendai, Japan, to revive and rediscover human-human interactions after the pandemic.

For more information, please visit <https://www.wri17.com/index.html>.

- Carlos Espinoza Enriquez de Luna (University of Granada) for the contribution "**Experimental study of arsenic and selenium co-precipitation with barite**"
- Alejandro Andrés Escorihuela (University of Zaragoza) for the contribution "**Mineralogical characterization of the Candelaria ore deposit (Gallinero de Cameros, La Rioja)**"
- Sara Romero Cruz (University of Huelva) for the contribution "**Alkaline treatment of highly polluted acid effluents sourced from mining and industrial activities**"

The rest of the submitted contributions were as follows

- "**Experimental mineralogy: calcic phosphates**" by M^a Cristina García Gil, University of Oviedo)
- "**The Huércal-Overa Co-Cu mineralization (Almeria): approach to the forming model**" by Robert Rodríguez Oterino (University of Barcelona)
- "**Report of the iron, kaolin, and alunite exploitation from Madriguera surroundings (Segovia)**" by Juan Rodríguez Gómez (Complutense University of Madrid)
- "**Characterization of Fe oxy-hydroxides and carbonates under VNIR-SWIR and XRD spectroscopy: the Aizpea deposit, Zerain (Gipuzkoa)**" by Ana Yepes Goitia (Basque Country University)
- "**Petrological study of the Upper Jurassic of the Chinchilla mountains (Albacete)**" by Ricardo Francisco Mañanós Zaragoza (University of Alicante)
- "**Mineralogical study of the Quibas deposit**" by Elia del Castillo Sobrinos (University of Murcia)
- "**Petrology and geochemistry of rocks from La Palma eruption in October 2021**" by Irene de los Reyes Méndez (University of Huelva)
- "**Volcanic ash geochemistry from La Palma eruption**" by Sandra Burgada Pacheco (University of Huelva)
- "**ADI application for rock porosity quantification and analysis of its potential as CO₂ storage**" by Sara Rocas Heres (University of Oviedo)
- "**Water extraction from martial regolith materials**" by Miquel Grande Tena (University of Barcelona)
- "**Sulfate and carbonate source in marine waters of the Greenland ice-cap front at Kangerlussuaq**" by Sara Carreras Gómez (University of Zaragoza)

Dídac Navarro Ciurana and Núria Sánchez-Pastor
SEM council members