

**JAPAN-AFRICA HYBRID
WORKSHOP**
on Promotion of Science,
Engineering, and Technology
in Innovative Solutions to
Environmental Problems in Metal
Mining Areas



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HOST



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Shibaura Institute of Technology
Co-HOST

DATE: DECEMBER 14-16, 2022

**VENUE: ONLINE & ONSITE / KYOTO UNIVERSITY,
KATSURA CAMPUS, CLUSTER C-1-3 (BLDG. 22)**
C-1-3 ROOM 311 / DECEMBER 14
C-1-3 ROOM 192 / DECEMBER 15
TECHNICAL TOUR / DECEMBER 16

Dear Colleagues

We have the pleasure to invite you to participate in the Japan-Africa Workshop on *Promotion of Science, Engineering, and Technology: Innovative Solutions to Environmental Problems in Metal Mining Areas*.

This workshop will bring together a range of international experts for an interdisciplinary discussion on the exploration of new pathways toward sustainable solutions for environmental protection in metal mining areas.

The workshop sessions will address the following key topics:

- Remediation techniques for the contaminated soil.
- Decontamination technologies of the water bodies (including the application of nanostructured metal forms).
- Portable technologies for on-site metal analysis in water.
- Methods for treatment and recycling of mining wastes; secondary raw material valorization; utilization of alternative energy sources in metal mining areas.
- Legislative and regulatory issues towards implementation of clean and controlled techniques and technology.

**WE ENCOURAGE STUDENTS AND YOUNG RESEARCHERS TO PARTICIPATE
IN THE POSTER PRESENTATION.**

FREE

Distinguished Invited Speakers

- ULTRA Venecio U., *Associate Professor*, Botswana University of Science and Technology, Botswana.
- MABUBA Nonhlangabezo, *Associate Professor*, Johannesburg University, South Africa.
- CHAUKURA Nhamo, *Professor*, Sol Plaatje University, South Africa.
- KADEWA Wilfred, *Executive Dean*, Malawi University of Science and Technology, Malawi.
- LIEN Truong Thi Ngoc, *Associate Professor*, Vietnam-Korea Institute of Science and Technology, Vietnam.
- GRAMS Jacek, *Professor*, Lodz University of Technology, Poland
- TOKORO Chiharu, *Professor*, Waseda University, Japan.
- MORI Junichi, Hitachi Zosen Co., Japan.
- TAKAMURA Yuzuru, *Professor*, Japan Advanced Institute of Science and Technology, Japan.
- MOTOSHITA Masaharu, *Research Group Leader*, National Institute of Advanced Industrial Science and Technology, Japan.
- KOWALSKA Ewa, *Associate Professor*, Hokkaido University, Japan.
- KAMEDA Tomohito, *Associate Professor*, Tohoku University, Japan.
- MOSTWAISO Fiona, *Researcher*, Tohoku University, Japan.
- CHEMUTAI Job Alunga, *Plant Breeder*, National Agricultural Research Organization, Uganda.
- NTSENDWANA Bulelwa, *Research Group Leader*, Nanotechnology Innovation Centre, MINTEK, South Africa
- TSHEPO Mohlala, SMIANYE Sam, University of Johannesburg, South Arica.

With this workshop we expect:

- ✓ To develop Japan-Africa collaboration between researchers and industry experts on the implementation of new techniques and technologies in the metal mining areas of Africa.
- ✓ To create Japan-Africa researchers' network for the development of a new generation of collaborative networks to enhance academic impact.
- ✓ To share information on specific tools (research methods, analyses, equipment, laboratory-scale techniques, and industrial-scale technologies) used in the determination of environmental contaminants, and in the transformation of the waste into valuable products.