

WCSB11

THE 11TH WORLD CONFERENCE
OF SAMPLING AND BLENDING

21-23 MAY 2024

HYBRID CONFERENCE
MISTY HILLS CONFERENCE CENTRE
MULDERSDRIFT, JOHANNESBURG
SOUTH AFRICA



SAIMM
THE SOUTHERN AFRICAN INSTITUTE
OF MINING AND METALLURGY

The World Conference on Sampling and Blending (WCSB), to be held in South Africa, 21-23 May 2024, is the eleventh such conference to promote the Theory of Sampling (TOS). The WCSB conference provide a meeting place for professionals interested in sampling theory, practice, experience, applications, and standards. The Conference will provide understanding and insights for academics, manufacturers, engineering firms and practitioners aiming to achieve representative sampling. TOS effectively identifies the source of sampling variability and provides valuable solutions for minimising each source of sampling uncertainty.

The aim of WCSB11 is to invite and encourage the diverse international sampling community to adopt and disseminate the concepts and ideas for a standardized approach to sampling embodied in the TOS. The Conference will also offer a forum for fruitful discussions between statisticians committed to 'Measurement of Uncertainty' (MU) and proponents of the TOS by offering a unifying foundation for development of better and more general standards. While the Theory of Sampling had its historical origins in the mining industry, today it also applies to sampling of a broad range of bulk materials, minerals, agricultural raw materials and products, the food, feed, and pharmaceutical industries, as well as sampling for environmental applications. WCSB11 is an event of global significance that aims to improve sampling practices in all sectors of science, technology, and industry, for consultants, managers, sampling and quality control staff, researchers, engineers, and manufacturers operating in many industries. The opportunity to meet,

exchange ideas, and share practical experiences will be a significant benefit for attendees.

The proceedings of the Conference will be published in electronic format with a strict adherence to an editorial and peer review policy that will allow academics to attract the publication subsidy for published academic research. Adherence to these standards will enable the wider dissemination of the TOS in international scientific, technological, and industrial sectors. WCSBs have helped to promote the teaching of TOS at universities, with postgraduate courses in TOS being taught in some countries. The Pierre Gy Gold Medal is awarded at each WCSB conference to individuals who have been most effective and successful around the world in disseminating and promoting TOS. This achievement will again be celebrated at WCSB11. The medallists are a unified body of champions capable of teaching, promoting, and researching aspects of sampling theory and practice, supporting the efforts of original equipment manufacturers to uphold TOS rules of sample representativeness. WCSB conferences aim to develop a unified vision for specific quality control protocols for sampling and blending activities, with participation and collaboration of industry professionals.

The theme of *sustainable* science, technology, and industry introduced at WCSB10 is upheld, with emphasis on the UN World Development Goals number 9 and 12, addressing sustainable industry, innovation, and infrastructure, and responsible production and consumption. Topics around societal, industrial, and environmental aspects of particulate sampling in mining,

FOR FURTHER INFORMATION, CONTACT:

Camielah Jardine,
Head of Conferencing

E-mail: camielah@saimm.co.za
Tel: +27 11 538-0237, Web: www.saimm.co.za



WCSB11

THE 11TH WORLD CONFERENCE
OF SAMPLING AND BLENDING
21-23 MAY 2024
MISTY HILLS CONFERENCE
CENTRE, MULDRSDRIFT
JOHANNESBURG
SOUTH AFRICA



minerals processing, metals, cement, food and feed, agriculture and aquaculture, and pharmaceuticals may be addressed. An emphasis on the TOS, blending, sampling design and its role in metrology, estimation of sampling characteristics and heterogeneity studies, sampling and its effect on exploration, geostatistical studies, and grade control, sampling for feasibility studies and process control, practical applications for analysis and treatment of precious metals, and new technologies are anticipated. Sampling for environmental contamination studies and sustainability are also included. We encourage attendees and authors to contribute to sustainable industries.

WHO SHOULD ATTEND?

- Representatives from all professions in which sampling plays a role before analysis and decision-making.
- Geologists, metallurgists, mineral processing engineers and technicians, geometallurgists
- Mine managers, process managers and superintendents, general managers, technical managers – and economists, contract, and legal personnel
- Competent Persons responsible for metal accounting, reconciliation, Reserve and Resource declaration
- Quality assurers, quality controllers, quality managers from all sectors in technology, process, and manufacturing industries
- Front-line sampling operators and technicians
- Laboratory managers, supervisors, and technical personnel
- Sampling system design engineers and original equipment manufacturers (OEMs)
- Engineering or project houses
- Sampling-related ISO committee members and other individuals involved in producing norm-giving guidelines a.o.
- Mineral and commodity buyers, sellers, and mineral traders
- TIC (Testing, Inspection, Certification) companies
- Participation in WCSB11 is also available as a streaming option for those unable to attend in person.

EXHIBITION/SPONSORSHIP

There are several sponsorship opportunities available. Companies wishing to sponsor, or exhibit should contact the Conference Co-ordinator, Gugu Charlie, SAIMM, gugu@saimm.co.za. Details of sponsorship are also available on the website (www.saimm.co.za).

CALL FOR PAPERS

The following are important dates for the submission of abstracts, acceptance of abstracts, submission of papers, the peer review process, and submission of final papers for the proceedings of the WCSB11 conference. Authors wishing to present papers at WCSB11 are invited to:

- **Author deadline for submission of Abstracts - 11 September 2023**
- **Acceptance of abstracts - 29 September 2023**
- **Author submission of papers - 4 December 2023.**

Papers accepted for the conference will be subject to peer review and the date for final paper submission is 18th December 2023. Papers will be published as proceedings of WCSB11 in the convenient and readily available electronic format, to be distributed in Dropbox with a link provided to delegates 2-3 days before the conference.

POSTER DISPLAYS

Contributions in the form of poster displays are encouraged and these will also be peer reviewed and included as part of the proceedings.

OPTIONAL SHORT COURSES

A number of one- or two-day courses facilitated at the Conference venue by well known sampling experts will be presented, either before or after the Conference. Course topics will include an Introduction to the Theory and Practice of Sampling (TOS), Process Analytical Technology in Pharmaceutical Production and Monitoring, Sampling Theory and Practice, their Economic Impact, Analysis of Sampling Correctness and the Futility of Bias Tests. All short courses start at 9 am and end around 5 pm. Course tickets will include lunch, coffee/tea, and snacks. Further details will be provided on the WCSB11 website (www.saimm.co.za) as arrangements are finalized.

There is a call for short courses dealing with topics on or around sampling and the TOS in any of the wide spectrum of disciplines in which particulate sampling is practiced, as well as in process industries. Potential presenters are encouraged to submit a proposal for a short course, with a title and a description of the course content, to be presented over one or two days, to the Organizing Committee for consideration.

FOR FURTHER INFORMATION, CONTACT:

Camielah Jardine,
Head of Conferencing

E-mail: camielah@saimm.co.za
Tel: +27 11 538-0237, Web: www.saimm.co.za