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Introduction to IPGSA for TIC Council

# Introduction to IPGSA

Elevating Global Standards in Sampling Practices

- Founded on the **Theory of Sampling (TOS)**
- **Initially** addresses sampling issues in mining, minerals, cement, and metals processing
- **Now** demonstrating universal applicability of TOS across all sectors

## The Genesis of the Theory of Sampling (TOS)

- **Pierre Gy's** journey began in 1946 at a lead mine in the Congo.
- He needed to estimate the metal grade of a large stockpile.
- He discovered **Gaps in sampling**:
  - Discrepancies in literature on minimum sample weight
  - Financial losses in due to sampling errors
- Gy developed the first theoretical model for sampling particulate solids in 1950, aiming to relate sampling **error variance** to **lot mass**, **sample mass**, and **material properties**
- Gy's models laid the **groundwork for TOS**, revolutionizing sampling practices across industries

# Vision – Purpose & Objectives

## IPGSA Vision

- To be the internationally recognized **scientific** organization for **sampling guidance**

Advise on sampling of heterogeneous materials, lots, and processes

## Purpose and Objectives

- **Know-how Development:**  
Guides TOS developments
- **Advice and Support:**  
Provides assistance on sampling matters
- **Capability Building:**  
Facilitate Training and Quality Programs

# Activities of IPGSA

- Awards and supervises **WCSB** (World Conference of Sampling & Blending)  
Promoting TOS, facilitating international dialogue, and serving as an educational platform for sampling
- Participates in developing standards
- Publishes **SST-Magazine**
  - free publication
  - communications platform for all interested in the theory and practice of representative sampling and blending.
  - disseminate awareness of proper sampling practices to all other interested parties
- Maintains an informative webpage
- Organizes training lectures



Mr. Oscar Dominguez  
Sampling Lecture at Curtin University



Sampling Science & Technology (SST)

# Target Audience

## Who is IPGSA Addressing?

- **End-users** of sampling data in commercial, mining, industrial, agricultural, pharmaceutical and research, activities
- Regulators and governance bodies that **rely** on sampling data
- Sampling practitioners, universities, and students that will **provide** sampling data



Image Source: Illustration created via DALL-E. Date of Creation: 29/2/2024



# Challenge of IPGSA

## Challenges and Growth

- **Diversity of Experts:**
  - Integration across sectors enriches IPGSA
  - Brings new challenges and broadens perspectives
- **Generational Turnover:**
  - Embracing new ideas from the next generation
  - Balancing wisdom with fresh insights.
- **Balancing Theory and Practice:**
  - Ensuring TOS remains accessible and applicable.
  - Avoiding overly theoretical approaches that deter practitioners.
- **Theoretical Disagreements:**
  - Navigating diverse theoretical approaches.
  - Maintaining collaboration despite differences.



Created via OpenAI's DALL-E on 29/2/2024

# Work-Programme and Working Groups Overview

## Countering our challenges:

- Establishment of specific Working Groups (WG) to **drive IPGSA's objectives**.
- Setting biennial goals with quarterly progress reports to ensure **continuous development**.
- Highlighting the strategic areas of focus and the **leadership guiding** each initiative.

## Working Groups (WGs) Overview:

- **WG1 - Scientific Platform:** Fosters the development and dissemination of TOS knowledge.
- **WG2 - Communication Platform & LinkedIn:** Enhances IPGSA's digital presence and facilitates professional networking.
- **WG3 - Technical Trainings:** Offers educational programs to build sampling competencies across sectors.
- **WG4 - Stakeholders' Management:** Engages with key stakeholders to align efforts and expand TOS application.
- **WG5 - Budget:** Manages financial resources to support IPGSA's activities and sustainability.

# Budget & Resources

- Financial entry through **WCSB** conferences
- Sponsors and voluntary contributions
- Proposals for sustaining and improving IPGSA



Sponsors WCSB10 - Kristiansand



IPGSA Council: Elke Thisted, Kim Esbensen, Philippe Davin, Karin Engström, Claudia Paoletti, Oscar Dominguez, Rodolfo Romanach, Aldwin Vogel, Martin Lischka, Stephane Brochot, Sheryl Tittlemier, Ralph Holmes.



# Join IPGSA at WCSB11

The banner features a dark blue background with a yellow diagonal stripe. On the left, there is an aerial view of a mining operation. On the right, a person in a white lab coat is shown working with laboratory glassware, including a flask and test tubes. The SAIMM logo is in the top right corner.

## WCSB11

THE 11<sup>TH</sup> WORLD CONFERENCE  
OF SAMPLING AND BLENDING

SAIMM  
THE SOUTHERN AFRICAN INSTITUTE  
OF MINING AND METALLURGY

➤ 21-23 MAY 2024  
HYBRID CONFERENCE  
MISTY HILLS CONFERENCE CENTRE  
MULDERSDRIFT, JOHANNESBURG  
SOUTH AFRICA

