



COURSE:

“IMPROVING THE WAY WE MANAGE TAILINGS”.

In-Person Event



NOV.
2023 **15**



8:00AM.-
6:00PM.



Hotel Meliá
Lima, Perú

www.deev.pe

DEEV
EVENTS

Instructors:



Ward Wilson

Professor of Geotechnical and
Geoenvironmental Engineering
UNIVERSITY OF ALBERTA



David Williams

Professor of Geotechnical Engineering
UNIVERSITY OF QUEENSLAND



Kim Morrison

Senior Director of Global
Tailings Management
NEWMONT CORPORATION



Emmanuel Pornillos

Specialist consultant & CEO
**CONSULTORÍA E INGENIERÍA – TECNOLOGÍA
DE RELAVES**



José Luis Lara

Geotechnical Consultant - Specialist
in tailings dewatering technologies
LARA CONSULTING



Hernán Cifuentes

Principal Engineer Tailings
ATC WILLIAMS

Introduction:

Welcome to our cutting-edge course, “Improving the Way We Manage Tailings,” where we will explore the most innovative strategies and best practices in mine tailings management. In a world demanding a safer and more sustainable approach to mining, this course brings together world-renowned experts, including Kimberly Morrison, Ward Wilson, David Williams, Hernán Cifuentes, Emmanuel Pornillos, and José Luis Lara, to guide you on a transformative educational journey.

Throughout this course, we will explore not only the crucial technical and regulatory aspects of tailings management but also how to drive sustainability, safety, and excellence in the mining industry. Let’s embark on a learning journey that takes us to the forefront of tailings management, where safety, the environment, and efficiency converge. Let’s begin this exciting expedition towards a more responsible and prosperous mining future!



Module

1

Risk Management to Reduce Credible Failure Modes

- ▶ Demystifying ALARP (As Low As Reasonably Practicable): Pursuing Optimal Safety.
- ▶ Avoiding Critical Failure Modes.
- ▶ Emergency Response Plans.
- ▶ Dam Break and Runout: General Guidelines.

Module

2

Design with Closure in Mind

- ▶ Roadmap to Safe Closure.
- ▶ Landform Evolution.
- ▶ Applying Concepts in Practice.

Module

3

Geotechnical Investigation and Analysis

- ▶ Site characterisation process.
- ▶ Ground investigation and laboratory testing.
- ▶ Selection of Design Parameters.
- ▶ Seepage and Unsaturated Conditions.

Module

4

Tailings Monitoring and New Technologies for Risk Control

- ▶ Geostable: Innovation in Stability.
- ▶ Advanced Instrumentation.
- ▶ Emerging Technologies in Dewatering and Paste Backfill.

Instructors:

Ward Wilson

Professor of Geotechnical and
Geoenvironmental Engineering
UNIVERSITY OF ALBERTA



Ward Wilson is a consulting engineer with a focus on the industrial sector and extensive knowledge, boasting over 35 years of experience in advanced mining waste management. His career includes significant roles at both the University of Alberta and the University of British Columbia, as well as contributions to global mining waste management systems.

He has served as a specialized consultant on international mining projects and as an evaluator of technical causes in events such as the Brumadinho dam rupture in Minas Gerais. Dr. Wilson is particularly interested in emerging technologies that enhance the physical and chemical stability of tailings and waste rock systems. He is also involved in innovative research aimed at creating robust sealing materials by blending tailings and waste rock, thereby improving stability in mining waste systems and controlling ARD/ML. Ward led the “Prevention and Mitigation” chapter of the Global Acid Rock Drainage Guide and collaborated on the “Geotechnical Guidelines for Mining Waste and Storage Piles Design” manual for the large open-pit project, in conjunction with CSIRO and the International Network for Acid Prevention.



David Williams

Professor of Geotechnical Engineering
UNIVERSITY OF QUEENSLAND

David Williams has over 40 years of experience in teaching, research, and consulting. He is internationally recognized for his expertise and experience in the management of mining waste and mine closure, as well as tailings dams and their rehabilitation. He is a member of the Working Group of the Australian National Committee on Large Dams on Tailings Dams - Planning, Design, Construction, Operation, and Closure, published in 2012.

Additionally, he initiated and led the Geotechnical Engineering Center at the University of Queensland. Currently, he conducts high-level reviews and provides expert advice, opinions, and reviews on tailings dam designs, closure, and value-added to tailings and waste rock facilities.

Instructors:

Kim Morrison

Senior Director of Global
Tailings Management
NEWMONT CORPORATION



Kimberly Morrison is the Senior Director of Global Tailings Management at Newmont's corporate headquarters in Denver, Colorado. As the founding chair of the Mine Waste and Tailings Management Committee of the Society for Mining, Metallurgy & Exploration Inc. (SME), she served as the managing editor of the first edition of SME's Tailings Management Handbook. She is an active member of the Tailings Working Group of the International Council on Mining and Metals and serves on the Advisory Boards of the Center for Industrial Waste and Tailings Engineering (TAILENG), Tailings Center and EduMine.

Previously, she held various leadership positions in the Geoprofessional Business Association, becoming the second woman to serve on the Board of Directors. She was also part of the founding team of the Tailings Engineer of Record Task Force, which resulted in the publication of the Proposed Best Practices for Tailings Engineer of Record Dams. In 2020, she was named one of the 100 Global Inspirational Women in Mining and received the SME President's Individual Award. In 2022, she was honored with the Distinguished Environmental Management Service Award from SME's Environmental Division and was selected to participate in a temporary exhibit, "Pioneering the Field".



Emmanuel Pornillos

Specialist consultant & CEO
**CONSULTORÍA E INGENIERÍA – TECNOLOGÍA
DE RELAVES**

Emmanuel Pornillos holds a degree in Metallurgical Engineering from the University of the Philippines and has more than 50 years of experience in operational and applied engineering in metal smelting and extractive metallurgy.

Over the past 20 years, he has worked as a consultant in the application of tailings and mining waste technology around the world. He was also awarded a scholarship for metal smelting in Belgium. Emmanuel continues to contribute to the application of these technologies by publishing technical papers on tailings in international conferences.

He has held various roles in the field, including: Leader, Tailings Process and Deposition Group, Senior Consultant, Tailings Processing, Principal, Senior Specialist Engineer and Technical Specialist Service.

Instructors:

José Luis Lara

Geotechnical Consultant - Specialist
in tailings dewatering technologies
LARA CONSULTING



José Luis Lara is a civil-geotechnical engineer specializing in the comprehensive management of mining waste, with technical leadership in filtered tailings and tailings dam technologies. With over 30 years of experience, his expertise includes project direction, management, and leadership in mining projects, as well as geotechnical consulting in the design, construction, operation, and closure phases. Most of his work has been carried out in Chile, Brazil, Venezuela, and Peru.

In recent years, José Luis has been involved in various mining and tailings management projects, encompassing all engineering disciplines and stages of mining facility development, including design, construction, operation, and closure.

In addition to his consultancy and project management activities, he actively participates in international conferences, where he presents as a speaker on topics related to technological innovation in mining waste management, particularly in the areas of thickened tailings, filtration, co-disposal of tailings, and cycloned tailings.



Hernán Cifuentes

Principal Engineer Tailings
ATC WILLIAMS

Hernán Cifuentes is currently a Principal Engineer at ATC Williams, Australia. He brings two decades of combined professional experience working for the mining industry, consulting firms, and academic research. His global experience includes working with a broad range of tailings in various parts of the world.

He has significant exposure leading multidisciplinary teams in mining operations, developing engineering projects and studies, mostly in complex mining environments. Further, he has been responsible for the largest tailings operation facility in the world (Escondida Mine – BHP) and for providing technical advice and peer review.

Hernán's academic research experience focused on conducting studies to improve tailings operational conditions, developing and supporting the implementation of new tailings technologies and emerging practices to enhance the safety and sustainability of tailings facilities at a large scale and his studies have been published in international tailings and mine waste proceedings.

Hernán is currently a Chartered and Registered Professional Civil Engineer in Australia and is recognised as a Professional Engineer within the APEC economy. He completed a M.Sc. in Civil Engineering with a Post Graduate Diploma in Geological Engineering in Chile and a PhD in Geotechnical Engineering at The University of Queensland, Australia.

Registration includes:



Food services
(coffee break and
lunch)



Simultaneous
translation



Digital certificate of
participation signed
by the instructors



Specialized
networking



Presentations
delivered on a USB
drive



Investment:
USD 450
(includes taxes)

**Secure your
registration ¡TODAY!**

