

Invitation to Oman Embassy Seminar

Wednesday, 10 December 2025, 10:00 – 11:00 a.m.

Title:

Turning Stone into Solutions: *How Ultramafic Rocks Can Deliver Clean Hydrogen, Capture CO₂, and Supply Critical Materials*

By

Dr Chris Oze, Co-Founder and Chief Scientist, Aspiring Materials

More about Dr Oze [here](#), and further background [here](#).

H.E. Dr. Mohamed Said Al Busaidi, the Ambassador of the Sultanate of Oman, will be pleased to welcome participants at the Embassy.

Dr Oze will deliver his presentation live online from New Zealand.

Q&A session will follow the presentation.

Venue:

Embassy of the Sultanate of Oman in Tokyo (4-2-17 Hiroo, Shibuya-ku, Tokyo)

Language:

English (No Interpretation)

Abstract

Ultramafic rocks offer a remarkable opportunity to tackle global challenges in carbon storage, clean energy, and resource security. This talk will introduce the Aspiring Materials process, which uses these rocks to achieve permanent CO₂ capture and sustainable materials production, alongside complementary research exploring their potential to generate geological hydrogen. Together, these approaches reveal how Earth's natural chemistry can help drive a more sustainable, circular economy.

Dr Chris Oze is a geologist and former professor with a PhD in Geochemistry from Stanford University. He brings over 25 years of teaching, research, and leadership experience across leading universities in the United States and New Zealand. Recognized for his excellence in both teaching and mentorship, Chris has also served as an editor for several peer-reviewed scientific journals.

His doctoral research at Stanford focused on the geochemistry of olivine and ultramafic rocks — a field in which he has become an internationally recognized expert. This foundational work underpins Aspiring Materials' technology, which leverages these rocks and minerals for innovative carbon capture and clean-materials processes.

Chris has authored 58 peer-reviewed publications in high-impact journals, including *Proceedings of the National Academy of Sciences*, *Environmental Science & Technology*, and *Applied Geochemistry*, contributing significantly to our understanding of Earth's reactive minerals and their role in sustainable technologies.

Registration:

Kindly complete your registration via the [online registration form](#) by **Monday, 1 December 2025**.

Inquiry:

Embassy of the Sultanate of Oman (E-mail: events@omanembassy.jp)