All of our member spotlights have been listed on our website. Please have a read on their stories!

In this issue, we will continue to have the ASEG project 2022 recipient share their geophysics experience! This time, it is **Chibuzo Chukwu**, a PhD Candidate from Monash University.

1. For how long have you been studying geophysics?

My geophysical career began in 2013 with an assistant lecturing position in Nigeria. Since then, I've been involved in several geophysical data acquisition programmes to teach and search for geothermal, hydrogeologic, and mineral resources in various geologic settings

2. Any field experiences? If so, something to share (like where it is, what you did, or interesting stories)

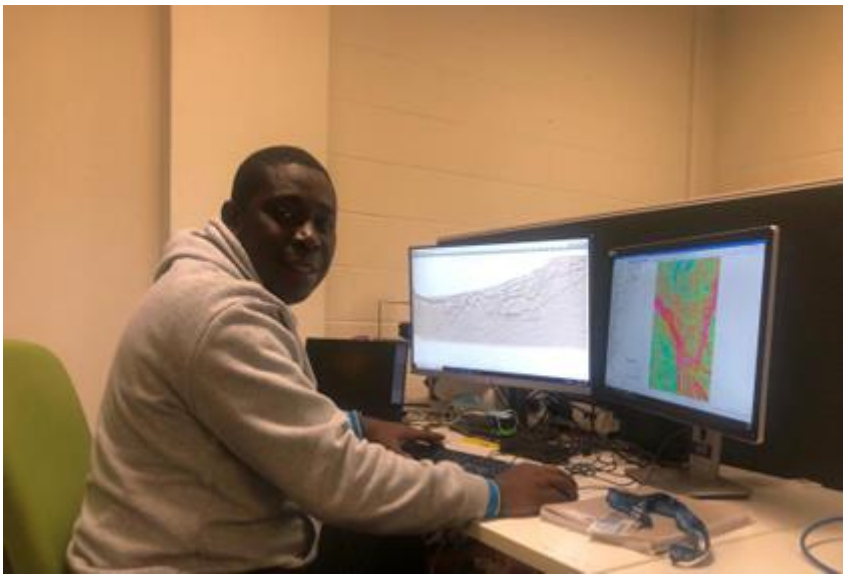
In February, we conducted a reconnaissance survey southwest Victorian coastline. The fieldwork was carried out to validate our gravity, magnetic, and seismic interpretations, collect rock samples to constrain our geophysical models and set up base stations/control points for a drone survey. The drone survey aims to map Mesozoic to recent structures and rocks along the Victorian coastline to understand how they have been influenced by Phanerozoic-Precambrian basement faults.

Aside from being one of Australia's 20 World Heritage sites, the Great Ocean Road in southwestern Victoria showcases various coastal landforms and rock types, as well as how natural factors such as ocean tides and sea-water rise influence fieldwork and geologic data collection.

I also enjoy the time spent during dinners discussing various topics about the lives and experiences of my seniors while enjoying local dishes and beverages.

3. What made you decide to study geophysics/geoscience? Anything you enjoy most?

I enjoy math, physics, and any activity that takes me outside. As a result, majoring in geophysics during my undergraduate studies was an easy decision. I also enjoy creating 3D geologic models from geophysical data to understand processes within the earth's subsurface.



4. What do you usually do in your spare time?

I enjoy travelling and volunteering.

5. What are your career goals in the future?

My medium- to long-term goal is to develop innovative, environmentally sustainable strategies for discovering the resources required for energy transition and train the next generation of geoscientists and explorers.

6. What is a challenge that you see in geoscience today, and how do you see the community overcoming it?

The public perception of the geoscience discipline is our greatest challenge. This has resulted in a massive global decline in geoscience student enrolment at our universities. As a result, even though we are in a position to provide solutions to global and environmental issues related to energy and mineral resource exploration, only a tiny percentage of our

graduates advance to managerial and policy-making positions in industry and academia.

We can only overcome this challenge by lending our voices to these issues and explaining why our actions are critical in providing solutions to these global issues, particularly for our youngsters.

7.What is the best way that the ASEG could let the public know about geophysics and its benefit to the everyday life?

Geophysical skill training should be redesigned to be available to at least related geoscience disciplines via unconventional/alternative forums. Maintaining the innovative Camp for Applied Geophysics Excellence (CAGE) organised by ASEG and NeXUS this year will be necessary to raise awareness of the role of geophysical skills in addressing global energy, environmental, and climate challenges.

8. Do you think AI will take over your job or will the human element remain vital to exploration successes?

Artificial Intelligence (AI) is required to synthesise large amounts of data and automate processes throughout the exploration value chain. Nonetheless, the human mind will continue to play a significant role in

how we respond to change and develop the innovative solutions required for exploration success.