



**THE GEOLOGICAL SOCIETY  
OF NAMIBIA**

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| Talk title   | <b>Exploring the Sequences and Cycles of the Nama Group in southern Namibia</b> |
| By           | <b>Bianca R. Spiering, Ajani Bissick</b>                                        |
| Date         | <b>Wednesday, 5<sup>th</sup> June 2024</b>                                      |
| Time         | <b>17h30</b>                                                                    |
| <b>VENUE</b> | <b>Auditorium of the MME</b>                                                    |

**Abstract:**

**Exploring the Sequences and Cycles of the Nama Group in southern Namibia**

**Bianca R. Spiering, Ajani Bissick**

Sedimentary cycles, intricate patterns woven into the stratigraphic record, have long captivated geologists for their important role in understanding environmental dynamics in Earth's distant past.

The latest Neoproterozoic Nama Group in the Karas Region of southern Namibia archives spectacular examples of ancient cycles. This >3000m fluvial to shallow-marine succession is marked by recurring patterns of sediment accumulation. These patterns or cycles are reminiscent of the rhythmic impact of astronomical climate forcing, well known from records of Pleistocene glaciations. Despite this observable regularity in the sedimentary cycles, the precise role of astronomical climate forcing in the formation of these sequences remains poorly understood. At the core of interpreting these sequences is the notion that each sequence reflects relative changes in sea level — generally expressed as deepening to shallowing trends of facies evolution. Given that fluctuations in sea level are commonly intertwined with astronomical forcing through glacio-eustasy, unraveling the nuanced details within these sedimentary sequences will shed light on the potential role of astronomical forcing throughout the Neoproterozoic. Here we present an initial examination of the systematic sedimentary fluctuations in the Nama Group within the frameworks of cyclo- and sequence stratigraphy.



*Cyclical patterns observed within the Huns Member of the Nama Group in the Huns Mountains area.*

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