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landfills, ubiquitous microplastic, erosion, widespread fertiliser use, ash from the burning of fossil fuels, radioactive particles from nuclear waste and the effects of unfolding climate change.

When our descendants study fossilised records buried in rocks and in soil, this is likely to be the evidence signalling the dawn of the age in which humanity dominated the earth.

Geological summit set to announce the epoch of humanity

Anthropocene working group announced at the 35th International Geological Congress in Cape Town that the beginning of a new epoch, or geological era – the Anthrocopene should provisionally be declared because man-made influences on the "state, dynamics and future of the earth system" are as signifi-

conclusion of the last Ice Age.

Dr Matthys Dippenaar, a geologist in the University of Pretoria's Geology department, said the announcement was "very exciting and we are very boundary. privileged that it happened in South Africa". Dippenaar and his colleague, Louis van Rooy, said the geological timescale is subdivided, based on major

of biodiversity) or deposition environments shaping the planet and its biodiversity, as well as major extinction events such as the Permian-Triassic

"To announce the Anthropocene as a new epoch dating from the 1950s implies geologists have decided that we have definitely entered a new time

from others preceding it," they

"Man's impact is now

considered one that will be reflected in the geological record of rocks and soils in the geological future. The Anthropocene can be characterised by changes in how sediments are deposited, how we disrupt the Earth's subsurface,

does not intrinsically imply any adverse impacts induced on the planet, but rather the indistinguishable reflection of man's influence on the changing geological processes shaping the planet."

The relevance of this is that it provides a new chronostratigraphic, or the timebased sequencing and classicant as those that happened climatic ice ages, evolution- in the geological timescale, and what the chemical nature fication of earth materials, formed," they said. This week, members of the nearly 12 000 years ago, at the ary (the Cambrian explosion which can be distinguished of these deposits are. The term basis for placing the influence

humankind into context of the shaping of the planet, "not necessarily now, but in the short geological or long-term anthropological future".

"Our deep excavations, our man-made construction materials, our use of nuclear energy and our carbon footprint are now part of how the future's rocks are being

The term was first coined phorus and various metals.

in 2000 "to denote the present time interval, in which many geologically significant conditions and processes are profoundly altered by human activities".

These include changes in: erosion and sediment transport associated with a number of anthropogenic processes, such as colonisation, urbanisation and climate change; the chemical composition of the atmosphere with significant anthropogenic perturbations of the cycles of elements such as carbon, nitrogen, phos-