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Let Me Drill a Coring Hole for You, and I will Return You a Telescope Inserted into the Earth

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Abstract

There was a famous saying by Sage Archimedes over 2,000 years ago that giving him a long enough lever and a fulcrum, he would tilt the entire earth. As an old driller, I propose another non-famous saying that giving me a chance to drill a coring hole, and I will create a telescope to insert the deepest earth for you. Nowadays, drilling is one of most significant methods to collect samples from the deep earth. Those samples are extremely important for geoscientists to focus on the dynamic evolution of deep earth. Therefore, drilling engineering is thought to be inseparable for the geosciences. Unfortunately, some young geologists, especially students majoring on geology, have no meanings of what the drilling is, and of the importance for their geological researches. In this case, education popularization drilling knowledge should be strengthened in future. And we hope that sufficient attention of drilling engineering will be taken by

geologists in the world. Moreover, in order to obtain high-quality cores by various coring drilling methods. Drilling techniques and special coring tools must be continuously developed to successfully perform with regard to a variety of complex geological conditions. We have developed coring tools these years as follows: Splitted core barrel Triple tube coring drill tool, Advanced tube coring tool, Vacuum suction coring tool, Shock-type coring tool, Long core barrel coring tool, WL-drilling system with hydro-hammer, WL-drilling system with mud motor. These new coring tools have played a very important role in China's scientific drilling program. All in all, without advanced drilling technology, pickup of high quality samples from the deep Earth and geological research on the dynamic evolution will be restricted.

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