

2021

Inspiration Award

Faculty Invention Disclosure

MULTIPLE TEMPERATURE BOREHOLE FLUID SAMPLER

Inventor:

Dr. Geoffrey Wheat



- Temperatures at oceanic boreholes may reach extremely high levels (~190°C)
- New samplers are needed to study in situ conditions of these boreholes
- Multi-Temperature Fluid Sampler (MTFS) is a syringe-style fluid sampler that employs thermal response of shape memory alloys
- Multiple samples may be taken at varying temperature ranges
- Application in scientific research and petroleum discovery



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