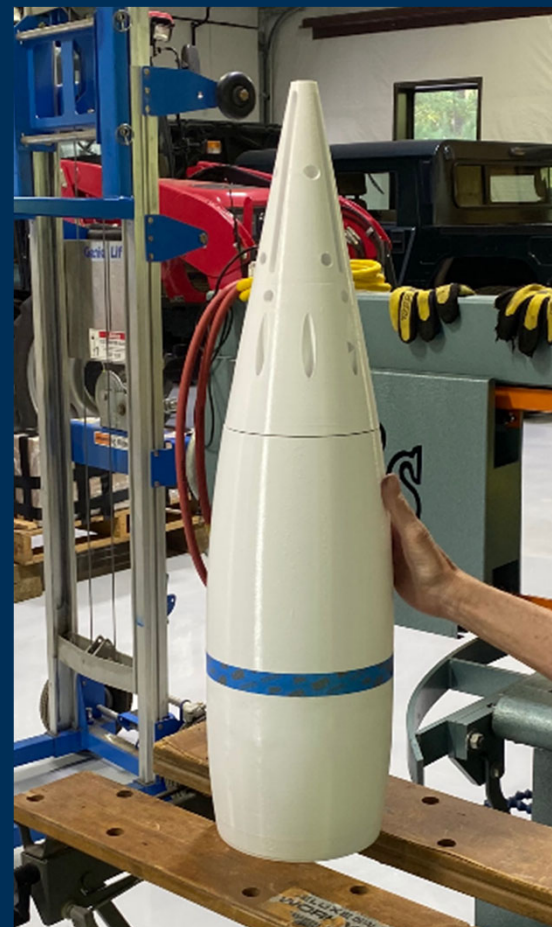




# Federal Interagency Sediment Project (FISP) P-21 Sampler Development with Carnet Technology



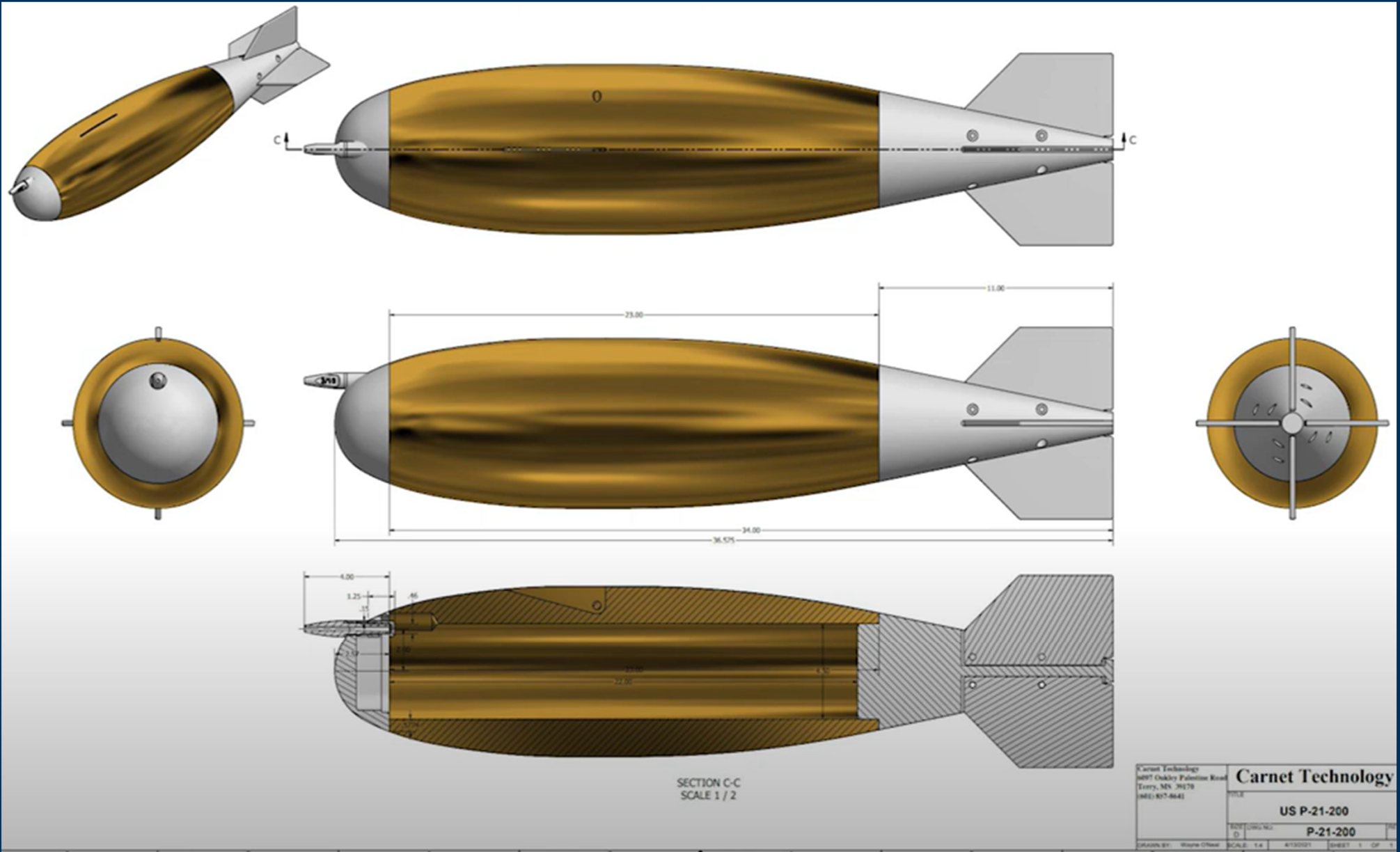
U.S. Department of the Interior  
U.S. Geological Survey

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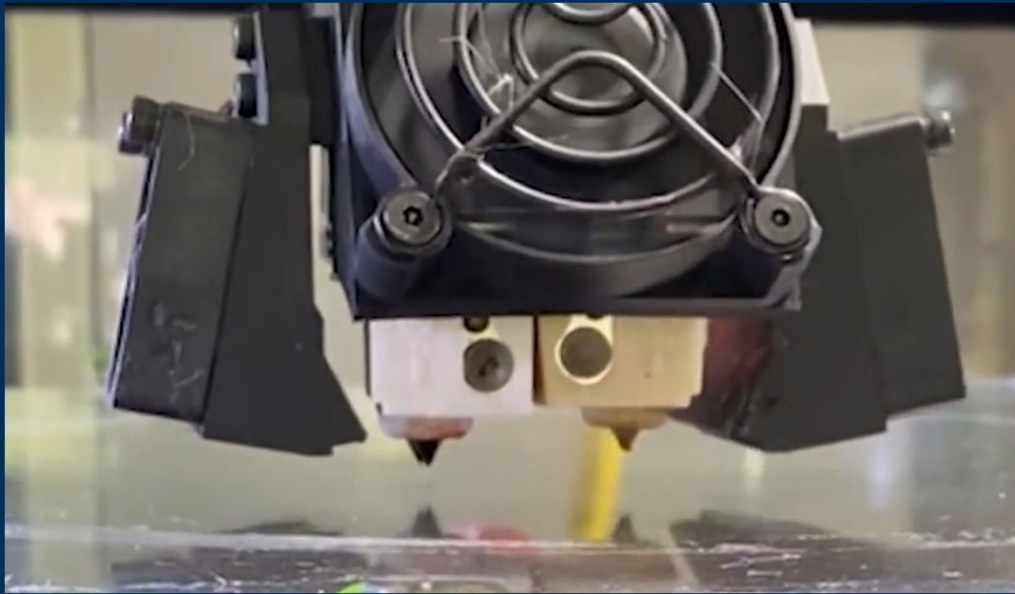
# New Physical Sampler Priorities

Ave. Rank	Item Description
1.3	Drawings
3.0	Standard solenoids and plungers (i.e. no milling)
4.0	Multi-sampler (D-99 and P-6 heads)
5.7	Additonal heads for custom physical samples or surrogate inst.
5.7	Bottle container
6.0	Bag container
8.0	Different bag attachment mechanism
8.7	Interchangeable components with P-6 and P-6-200
8.7	Hollow-walled sampler body filled with metal and epoxy for desired weight
8.7	Space for accomadating surrogate electronics
10.3	Mounting points on the body for printed mounts to secure surrogate instruments
11.0	Buoyant head, valve components

# New Physical Sampler Plans



# 3D Printing Technology Being Used

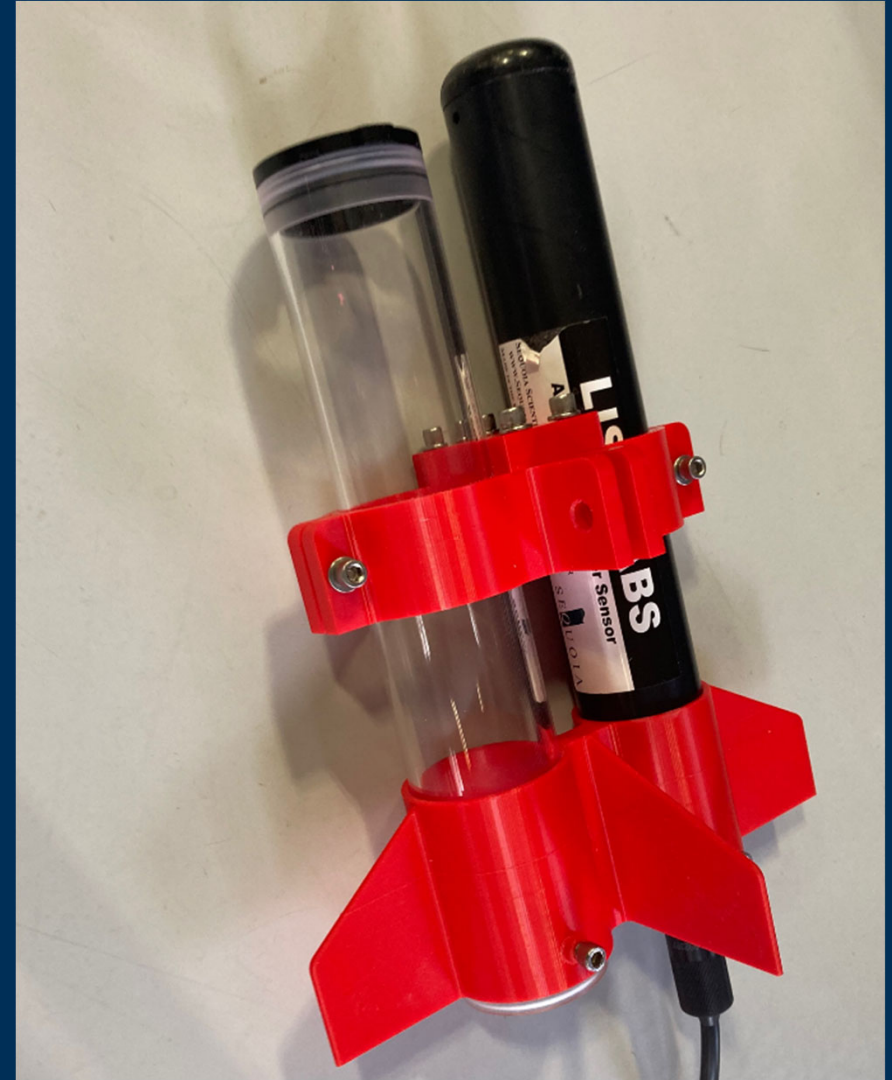




# Core Filled with Weights and Epoxy



# Surrogate technologies can be attached to bottom of sampler



- Final stages of development in 2022
- Performance tests in 2023

