



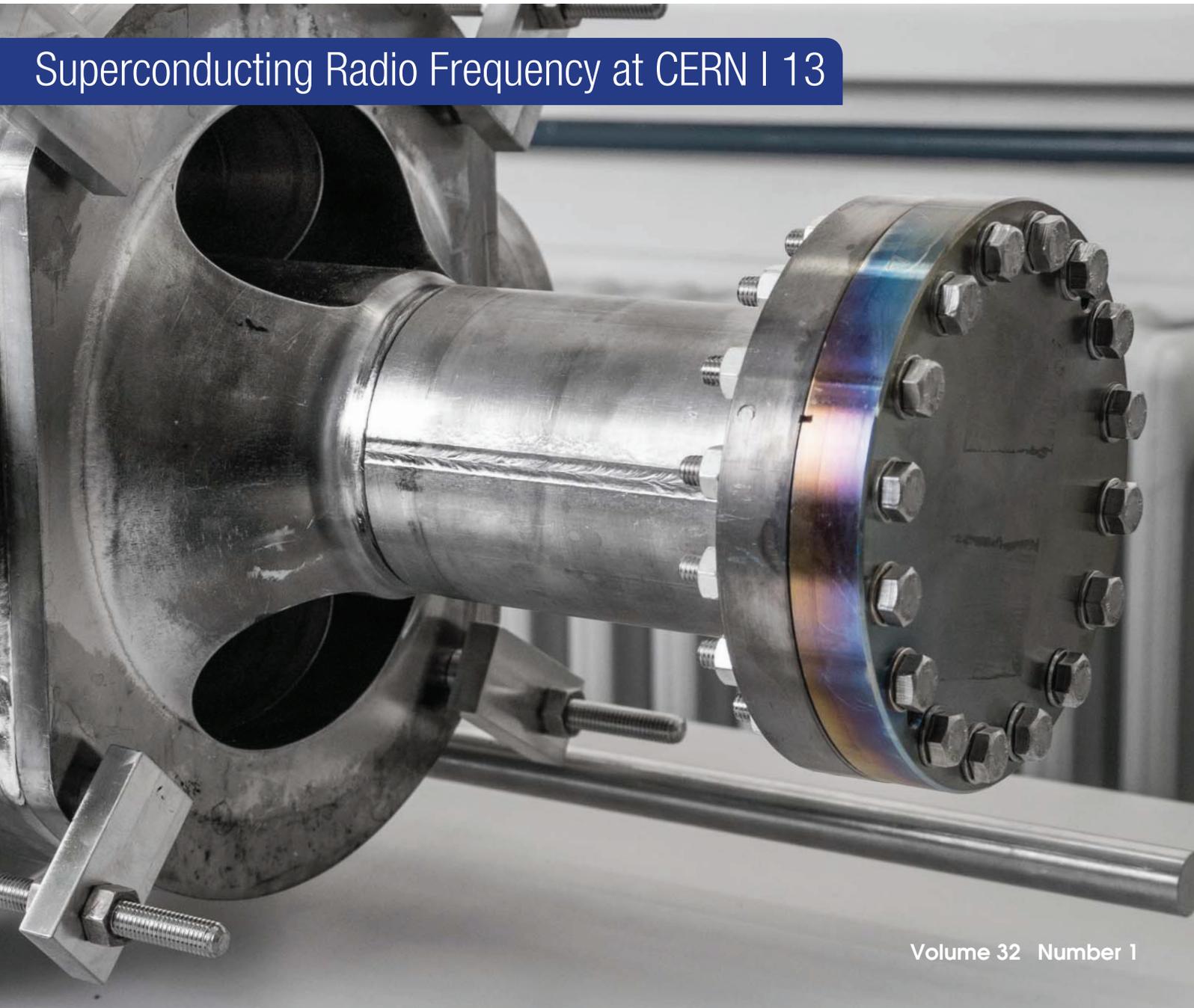
Preserving Innocent Biosamples ..... 8  
Scientists Prep for DUNE Neutrino Study ..... 16  
Next Generation MLI with Discrete Spacers..... 20

Superconductivity: A Retrospective..... 24  
Nominations Open for 2016 Boom Award..... 32  
In Memoriam: Nason, Soulen and Keller..... 36

# Cold Facts

The Magazine of the Cryogenic Society of America, Inc. **INTERNATIONAL**

Superconducting Radio Frequency at CERN I 13



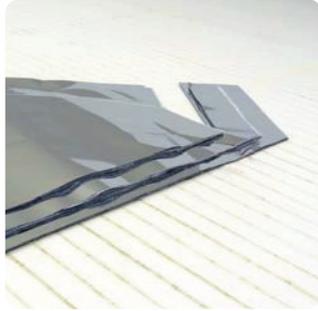
# Product Showcase

In the interest of enhancing the value of *Cold Facts* and helping prospective customers find cryogenic products and services, we offer this Product Showcase. We invite companies to send us short releases (150 words or fewer) with high resolution JPEGs of their new products. This feature is free and open to all companies and related manufacturers.

## Web Industries

### CAD CUT Cryokits

CAD Cut, a Web Industries company, has announced additional customization options for its CAD Cut Cryokits™. Grommets, snaps and straps can now be integrated into CAD CUT MLI blankets, and specialized packing techniques can be specified for faster installation. CAD Cut Cryokits provide complete, customized MLI systems packaged and shipped in a simple to order and simple to use format. Each kit contains everything needed for cryogenic insulation installation, including cut-to-fit MLI blankets and wide-width co-rolled insulation materials.



By incorporating vendor-approved grommets, snaps or straps during the blanket manufacturing process, CAD Cut eliminates placement variability. This can reduce non-value and make-ready or inspection work on the customer's factory floor, therein reducing labor costs and increasing productivity. Cryokit components can also be custom folded and sequenced in-box for more efficient layup and installation. These time-saving customization options are the latest in CAD Cut's line of proven MLI solutions that simplify end-product manufacturing. [www.cadcut.com](http://www.cadcut.com)

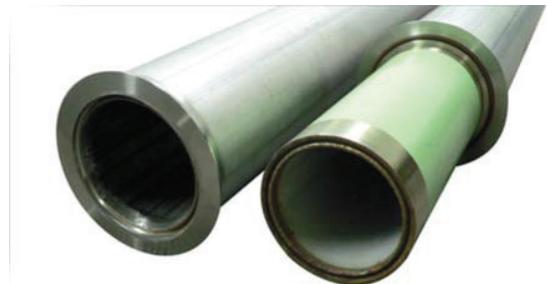
## Technifab

### T-400 Series Bayonet

Technifab recently unveiled the addition of T-400 Series Bayonets to its high quality, efficient Techniguard Rigid Vacuum Jacketed Pipe. With the inclusion of the T-400 bayonet, Technifab now offers frost-free connections for pipe sizes 1/2"ODT through 4"IPS.

The T-400 Series Bayonet is a close tolerance bayonet. The design provides a low heat transfer rate that minimizes cryogenic liquid boiloff and saves money. A T-400 bayonet eliminates the need for field welding or soldering. This makes installation simple and less expensive, pipe reconfiguration easy and system expansion effortless.

T-400 Series Bayonets are manufactured using stainless steel construction insuring maximum strength and corrosion resistance for use in a variety of cryogenic applications including LN<sub>2</sub>, Ar, H<sub>2</sub>, LOX and He. [www.technifab.com](http://www.technifab.com)



## Cryotherm

### Apollo® Series: supply vessels for cryogenic liquid nitrogen

Cryotherm's fully matured products guarantee a long service life. Cryotherm designed its Apollo® vessels to store cryogenic liquid nitrogen with vacuum super-insulation and long-time vacuum protection. One of the quality features of these cryogenic vessels is a welded design made of anti-magnetic and highly corrosion-resistant stainless steel. Apollo vessels can also be easily and safely transported,



Volume: 50L-350L

thanks to a robust transport protection frame and smooth running rolls. The Apollo Series vessels for liquid

nitrogen are available as either cryogenic vessels with integrated pressure build-up or as unpressurized dewars, and are popular within both the gas industry and at science centers and laboratories. Cryotherm's standard vessel includes several advanced features at no extra cost, including an integrated safety device at the vessel neck, a combined positive pressure-relief and seal-off device, a level indicator, a decanting head with waste gas and overflow valve, a decanting hose with phase separator and diverse accessories such as gloves and safety goggles. [www.cryotherm.de](http://www.cryotherm.de)