

# JEFFERSON LAB'S ENGINEERING DIVISION PROFESSIONAL DEVELOPMENT PROGRAM

## Cryogenics Seminars

Jefferson Lab's engineers, technicians and all interested employees are invited to participate in the Engineering Division's Professional Development Program, a series of seminars to be presented by JLab staff and invited guest speakers representing cutting-edge fields in engineering. The first set of seminars will be devoted to Cryogenics and presented by the lab's award-winning staff: Rao Ganni, Jonathan Creel, Peter Knudsen, Mathew Wright and Dana Arenius.

Overview sessions are open to lab staff and will be held in the CEBAF Center Auditorium. The technical presentations are for lab engineers and senior/mid-level technicians and will be held in CEBAF Center, Room F113. Engineers from local industry and graduate engineering students enrolled in local universities are also invited. All sessions will be held on Tuesday afternoons.

Eight Continuing Education Units will be granted by the Virginia State Licensing Board to professional engineers who complete the cryogenics series. **Space is limited and advanced reservations are required for all sessions. Register online: <http://conferences.jlab.org/cryo/>**

**JANUARY 25 • 1:30-2:30**

### **Cryogenics at JLab**

Rao Ganni

Audience: Overview

**FEBRUARY 8 • 1:30-3:00**

### **Cycle design/Carnot Analysis**

Rao Ganni

Audience: Technical

**FEBRUARY 22 • 1:30-3:00**

### **System Optimization/Ganni Cycle**

Rao Ganni

Audience: Technical

**MARCH 8 • 1:30-3:00**

### **2K Systems/Ln2/Typical Components**

Rao Ganni

Audience: Technical

**MARCH 22 • 1:30-3:00**

### **Instrumentation/Controls/Design Overview**

Jonathan Creel & Rao Ganni

Audience: Technical

**APRIL 5 • 1:30-2:30**

### **Small 2K System Design**

Peter Knudsen

Audience: Technical

**APRIL 19 • 1:30-2:30**

### **Helium Purification**

Mathew Wright

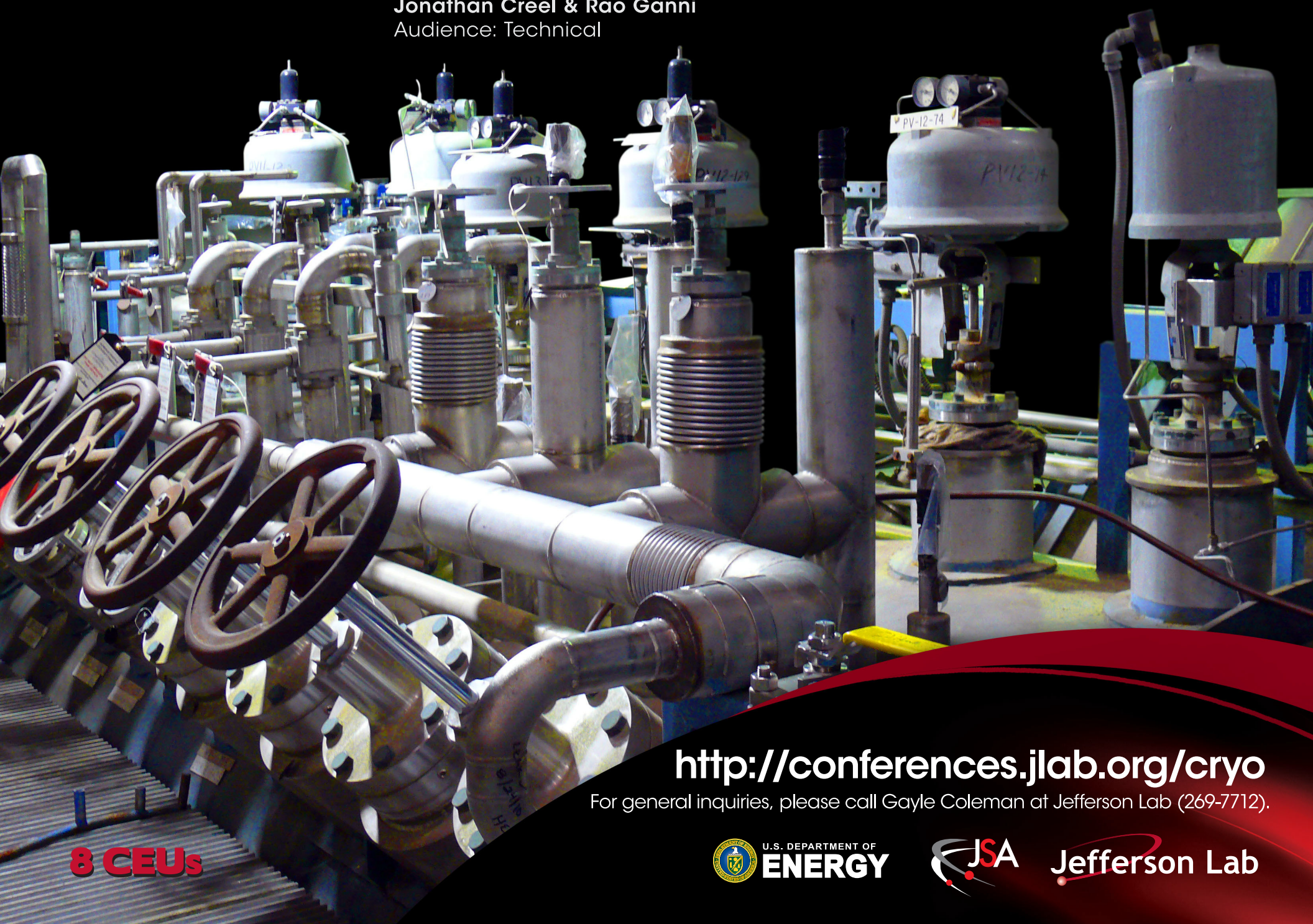
Audience: Technical

**APRIL 26 • 1:30-2:30**

### **12 GeV Cryo System Planning**

Dana Arenius

Audience: Overview



**<http://conferences.jlab.org/cryo>**

For general inquiries, please call Gayle Coleman at Jefferson Lab (269-7712).

**8 CEUs**



**Jefferson Lab**