

# JEFFERSON LAB'S ENGINEERING DIVISION PROFESSIONAL DEVELOPMENT PROGRAM

## Cryogenics Seminars

Registration is required to participate in the Jefferson Lab Engineering Division's Professional Development Program, a series of free seminars to be presented by JLab staff and invited guest speakers representing cutting-edge fields in engineering. The first set of eight 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.

The two overview sessions are open to all lab staff, representatives from local industry who have a professional interest in the topic and graduate engineering students; overview sessions will be held at Jefferson Lab in the CEBAF Center Auditorium. The technical presentations are for engineers, senior/mid-level technicians and graduate engineering students; technical sessions will be held in CEBAF Center, Room F113.

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

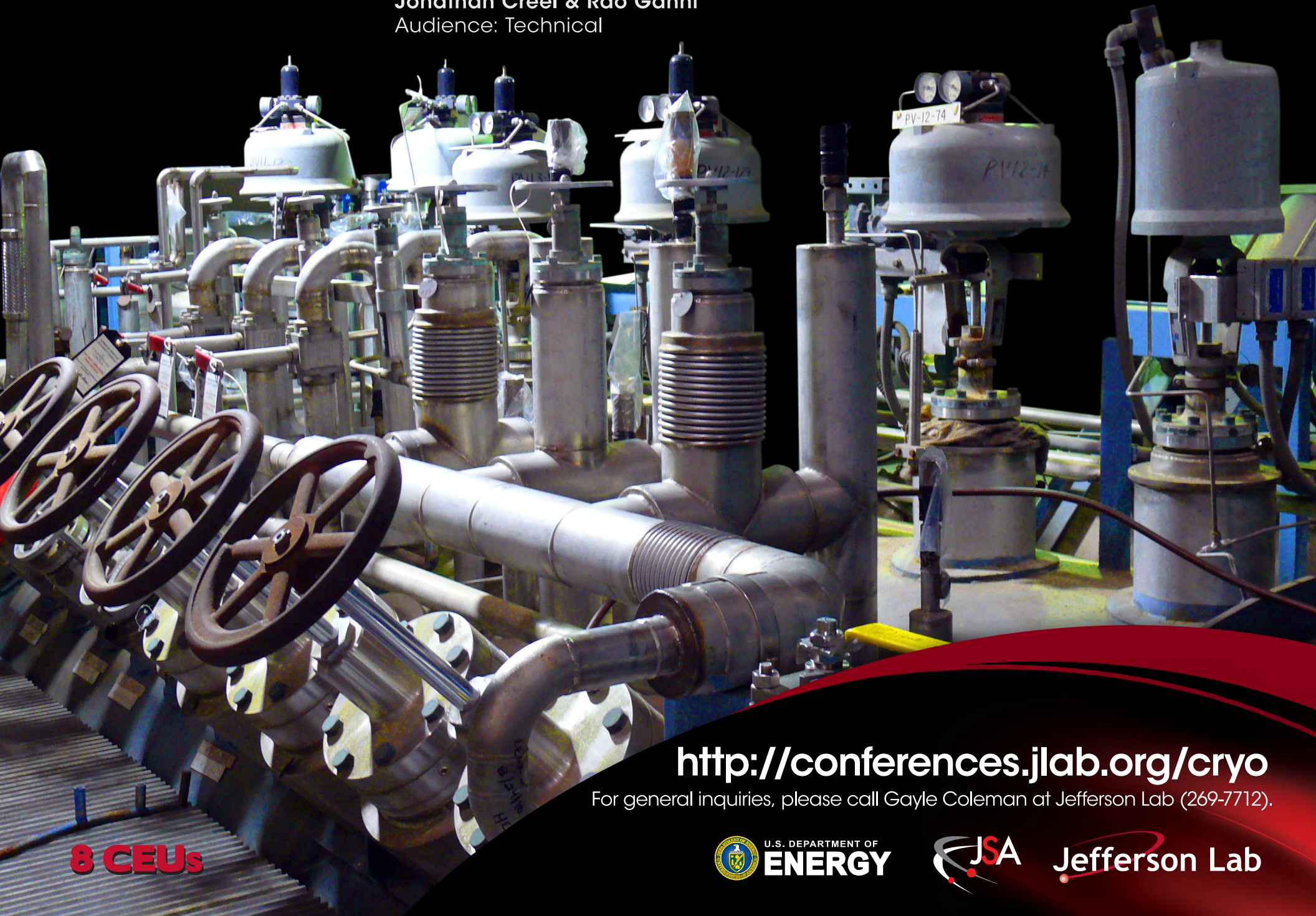
Audience: Technical

**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**