# Jlab Engineering Division Professional Development Program

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## **Program Introduction**

#### Intro to JLab

- Nuclear Physics Research Funded by DOE
- CEBAF is the core machine 6 GeV
- 12 GeV upgrade double CEBAF energy/>\$300 million.
- FEL world's most powerful tunable laser.
- Engineering Division ~180 staff

### Seminar Series History/Mission

- Staff Development expanded to external
- CEC class "a start but not the end"





## **Program Introduction**

### This Series

-4/26

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1/25 Cryogenics at JLab – R. Ganni
2/8 Cycle Design/Carnot Analysis – R. Ganni
2/22 System Optimization/Ganni Cycle – R. Ganni
3/8 2K Systems – LN2 – Components – R. Ganni
3/22 Instr/Controls/Design – J. Creel, R. Ganni
4/5 Small 2K System Design – P. Knudsen
4/19 Helium Purification – M. Wright
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### Attendance/CEU's

- 8 CEU's can miss 2 sessions
- We can furnish the necessary documentation for you to obtain CEU's – Certificate of Completion

12 GeV Cryo System Planning – D. Arenius





## Logistics

#### Documentation

Handouts and binders

### Safety Considerations

- Exits Muster Points
- -911

#### Contacts/Feedback

- Me, Tonya, Marissa, Gayle
- Survey forms and informal

#### Introductions

- You
- Our Speaker



