

Welcome and Introduction to SLAC

J. G. Weisend II



SLAC statistics

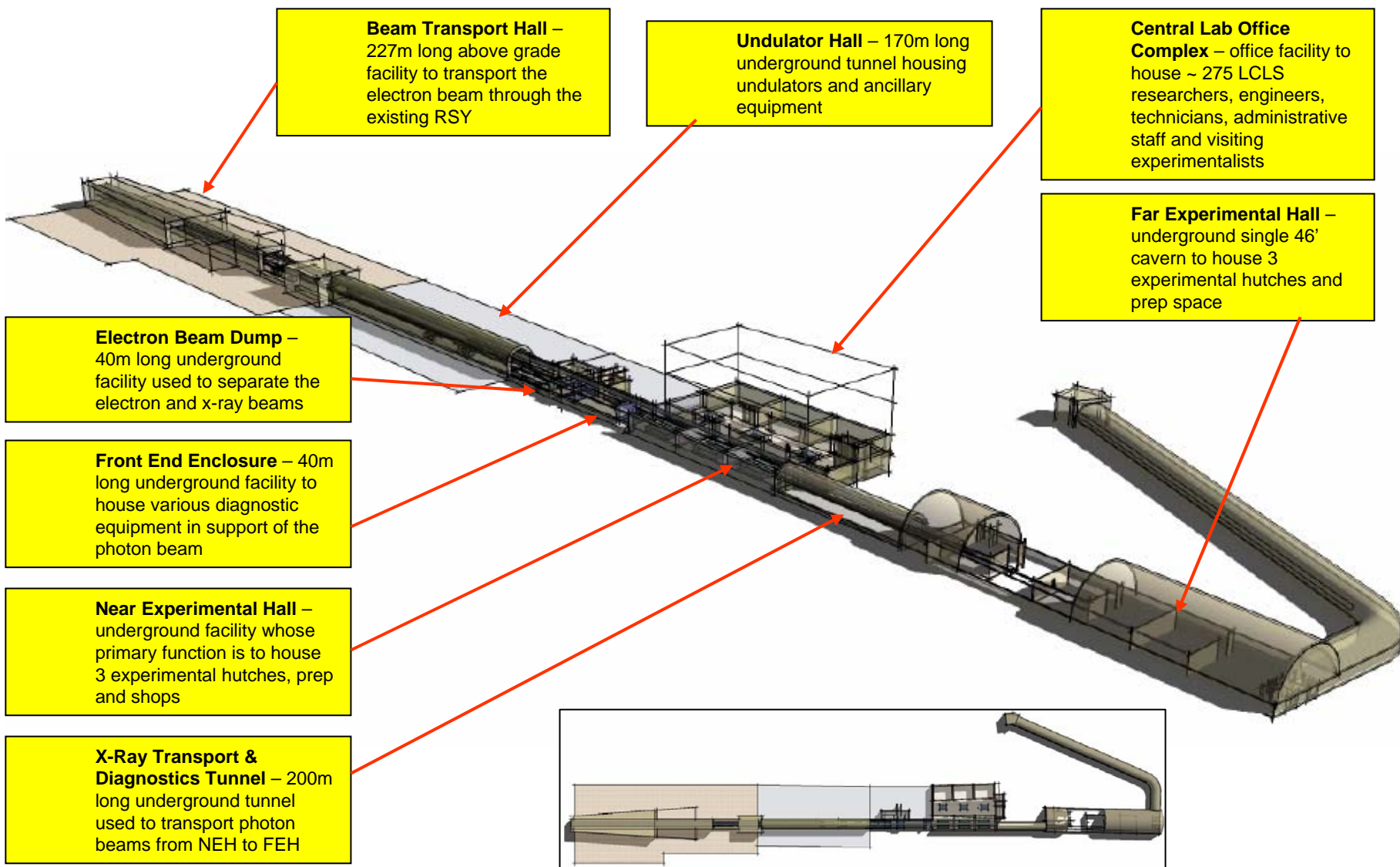
- SLAC is a National Laboratory run by Stanford for the DOE
- 1200 employees
- Construction started in 1962
- Budget \$250 million/year
- 426 Acres – leased for \$1/year
- No classified work – not allowed under DOE/Stanford contract

SLAC is a User Facility

- 1200 Elementary Particle Physics users
- 1800 Synchrotron Light users
- Collaborators from 20 Countries
- 500 papers published per year using data from SLAC.
- Our product is knowledge.

Fields of Study at SLAC

- Elementary Particle Physics, or High Energy Physics (HEP)
 - Study the smallest particles of matter and the forces that hold them together.
- Materials science, chemistry and biology using synchrotron light as a probe
- Major construction is beginning on the LCLS
- Astro-particle physics
 - HEP results effect cosmological models and astro-physics set constraints on particle models



Cryogenic Operations Workshop 2006 Program

May 9 – 11, 2006

**Stanford Linear Accelerator Center
ROB (Bldg. 48) Redwood Rooms**



<u>Tuesday, May 9</u>		
8:00 – 8:45 a.m.	<i>Registration/Refreshments</i>	
8:45 – 9:00	Welcome to SLAC/Orientation	J. G. Weisend II
9:00 – 9:30	Overview of Recent JLab Cryogenic Operations	J. Wilson
9:30 – 10:00	Cryogenic Operations for Tevatron Run II	M. Geynisman
10:00 – 10:30	The RHIC Refrigerator	A. Sidi-Yekhle
10:30 – 10:45	<i>Break</i>	
10:45 – 11:15	SNS Cryogenic System Capabilities Overview	D. Arenius
11:15 – 11:45	ISAC-II SC-Linac Cryogenic System at TRIUMF	I. Sekachev
11:45 – 1:00	<i>Lunch on your own</i>	
1:00 – 2:00 p.m.	Science at SLAC	P. Drell, K. Hodgson
2:00 – 2:30	Cryogenic Operations at SLAC	J.G. Weisend II
2:30 – 3:00	Summary of the Operation of the SKS Cryogenic System	K. Aoki
3:00 – 3:15	<i>Break</i>	
3:15 – 3:45	A Preliminary Look at the ILC Cryogenic System	T. Peterson
3:45 – 4:15	Present and Future Cryogenic Operations at Cornell	R. Ehrlich, E. Smith
4:15 – 5:00	Questions and discussions	
6:00 – 8:00	<i>Welcome Reception – Auditorium Breezeway</i>	

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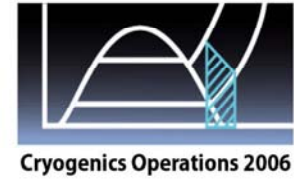


<u>Wednesday, May 10</u>		
8:00 – 8:45 a.m.	<i>Refreshments</i>	
8:45 – 10:30	Short Course on Cryogenic Safety	R. Bell
10:30 – 10:45	<i>Break and Group Photo</i>	
10:45 – 12:00	Short Course on Cryogenic Safety	R. Bell
12:00 – 1:30 p.m.	<i>Lunch on your own</i>	
1:30 – 2:00	Safety in RHIC Cryogenic Operations	A. Nicoletti
2:00 – 2:30	Availability & Reliability of CERN CryoPlants	L. Serio
2:30 – 3:00	Operations of Cryogenics for CERN Experiments & LHC Test Facilities	K. Barth
3:00 – 3:15	<i>Break</i>	
3:15 – 3:45	Overview of Jefferson Lab 12GeV Upgrade	D. Arenius
3:45 – 4:15	Screw Compressor Characteristics for Helium Refrigerators	D. Arenius
4:15 – 5:00	Questions and discussions	
6:00 – 8:00	<i>Conference Banquet – SLAC Cafeteria</i>	

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<u>Thursday, May 11</u>		
8:00 – 8:45 a.m.	<i>Refreshments</i>	
8:45 – 9:15	Cryogens for the NSCL Coupled Cyclotron Facility	H. Laumer
9:15 – 9:45	Cryogenic Improvements for the ATLAS Energy Upgrade	S. MacDonald
9:45 – 10:15	Cryogenics of SRF Spoke Cavity Development at SMTF	M. White
10:15 – 10:30	<i>Break</i>	
10:30 – 10:45	Cryogenic System of Vertical RF Test Facility	Y. Huang
10:45 – 11:15	Workshop Wrap up & Announcement of Next Meeting	
11:15 – 1:00	<i>Lunch on your own</i>	
1:00 – 4:00 p.m.	SLAC Tour	