Engineering All Hands

Henrik von der Lippe
July 7, 2017

Pre-Meeting Safety Check

Our address:

- B50 Auditorium, (Seaborg Road)
- LBNL
  One Cyclotron Road,
  Berkeley, CA 94720

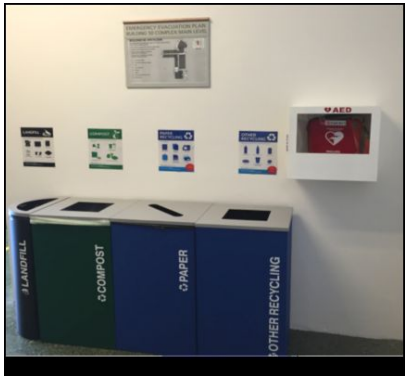
Our evacuation/assembly point:

- H1 Parking lot

Thanks to Deborah Wendt for the idea

The nearest AED:

- Around the corner to the left as you exit the auditorium



Volunteers:

- Who is CPR certified and willing to perform?
- Who will call 911?
- Who will lead the evacuation?
- Who will meet the emergency vehicles?
- Who will sweep the room?

Outline

- Overview of Accelerator Technology and Applied Physics (ATAP) Activities and Initiatives - Wim Leemans
- Division updates
  - New Employees over the last year
  - 2017 new hires & retirees
  - Engineering Process Guide
- Ice Cream Social B50C-Patio

New Employees & Retirees

New Employees

ME/Magnetics

- Adam Balogh
- Thomas Clemons
- Fausto Maciarello
- Kayla Mason
- Chris Orman
- Kristopher Pearson
- Denny Tan
- Li Wang

ESIE

- Phat Sanethavong
- Nigel Mesta Hired 12/2016

Retirees

ESIE

- Mark Amman
- Paul Barale
- Randy Candelario
- Helen Chen
- Jonathan Elkins
- Sergio Rogoff
- Rick Steele

ME/Magnetics

- Mark Campagna
- Manuel Pereira
- Paul Pipersky

Career Milestones

10 Years

Rick Bloemhard *(Feb.)*
Roman Dockal *(Apr.)*
Ian Johnson *(May)*

20 Years

Dawn Munson *(Mar.)*
Alex Ratti *(Mar.)*

15 Years

Chris Redding *(Feb.)*
Monte Whisenhunt *(Mar.)*
Daniel Ellis *(Jul.)*

25 Years

Sergio Gavida *(Feb.)*
Harold Yaver *(Apr.)*

Qiang Du

Scalable Control on Multidimensional Coherent Combining for High Average Power Ultrafast Laser

Explore engineering aspects of beam combining diagnostics and controls methods. Study and implement optimized multi-input multi-output (MIMO) control for each dimensional local control, including calibration and feedback control of cavity phasing and modulations in temporal stacking, stabilization of parallel channel phasing errors in spatial combining, and spectral optimization with understanding of phase dispersion and nonlinear effects in spectral combining. Apply system engineering and integration between multi-layers of controls for robustness.

Budgets

FY17 budget was passed by Congress and signed by the President in April

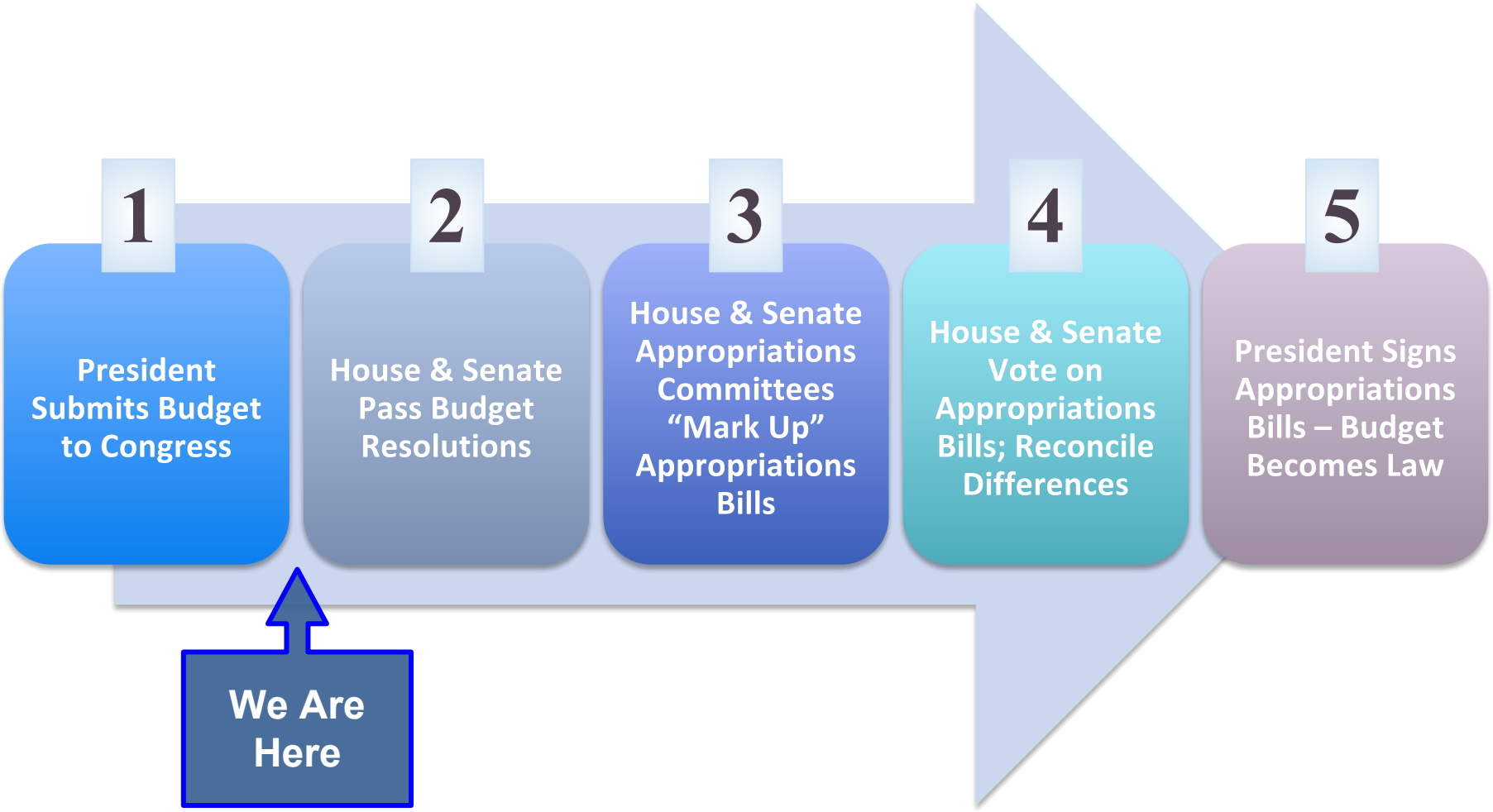
LBNL:

- **FY17: $574M**
- **DESI and LZ each receive an additional $2M in FY17**
- **ALS-U receive $5M**

FY18 President's Budget Request for The Office of Science proposal -18%

- **Wait for Congress to complete their proposals**

5 Steps to Federal Budget

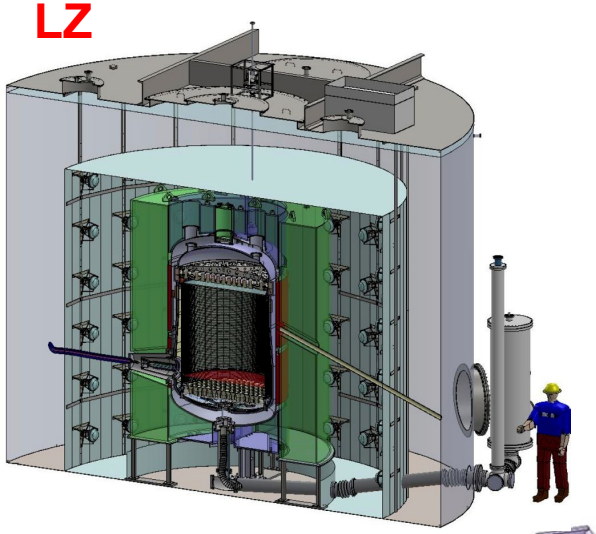


DOE 413.3B Projects

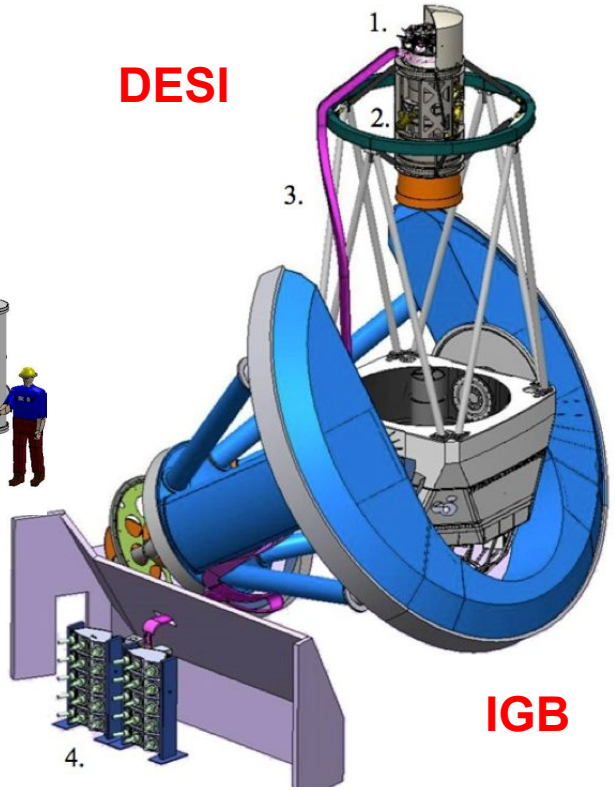
LCLS-II injector

LARP

LZ

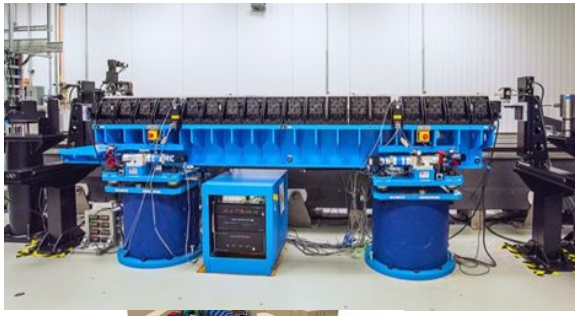


DESI

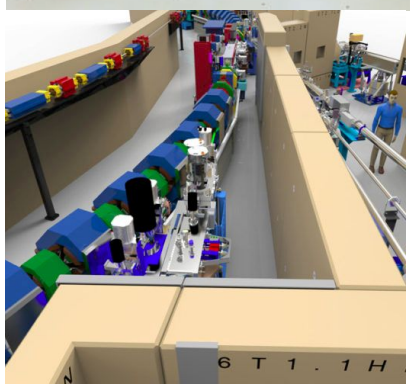


IGB

LCLS-II HGVPU

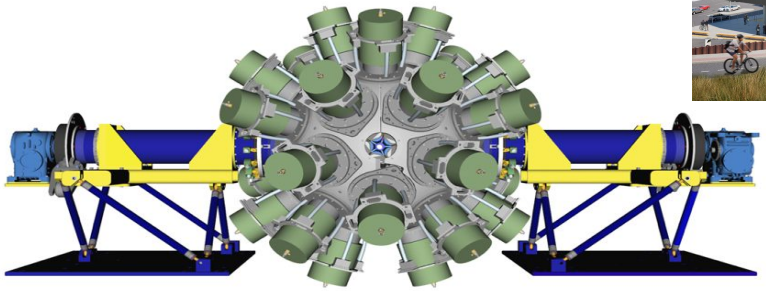


ATLAS upgrade



ALS-U

GRETA



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EPG | ENGINEERING PROCESS GUIDE

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Dashboard

Engineering Process Guide Home

Engineering Project Process

Project Flow Overview
Project Management Roles and Respons
Graded Approach to Project Managem
- Project Grade Assessment

Conduct Of Engineering
- Systems Engineering and Project Documentation
- Project Closeout
- Technical Project Reviews
- Supplier Management
- Acceptance Tests and Verification
- Quality Assurance/Assessment/Risk
- Safety

Quality Assurance

Design Standards

- Controlled Documents

Document Management
- Document Control Center (DCC)
- Engineering Notes
- Windchill
- Eng. Network Drives (U: & X:)
- Category Codes

Mechanical Engineering Reference
- Mechanical Design Standards

General Information

- LETS (Online Time Reporting)

Employee Information
- Administrative Support & Resources
- Commute, Transportation or Visitor Information
- Computer/Telephone Support
- Employee Responsibilities
- Finance & Proposals
- Human Resources
- New Employee Information & Checklist
- Property Management
- Supervisor Information
- Travel

- New Employee Information & Checklist

Employee information

Key Resources

(comprehensive resource list at the end of this checklist)

- ❑ Berkeley Lab Training (BLT) - Training requirements and profiles.
- ❑ CAD - CAD and computer documentation/resources (i.e., U/X drive, DCC, printing, and Windchill).
- ❑ Division Contacts - Identifies key functional roles in the division.
- ❑ Engineering Division Website - Overview of our capabilities and resources.
- ❑ Engineering Process Guide - Resource to guide employees.
- ❑ IT Help - Submit an online IT help request.
- ❑ LETS - Enter/approve timesheets.
- ❑ Network Drives (U-Drive and X-Drive) - Network Drives should be used for all data storage; especially project data that needs to be shared and backed up. Everyone has access to the X drive. Individual user (U drives) are created by IT upon request.

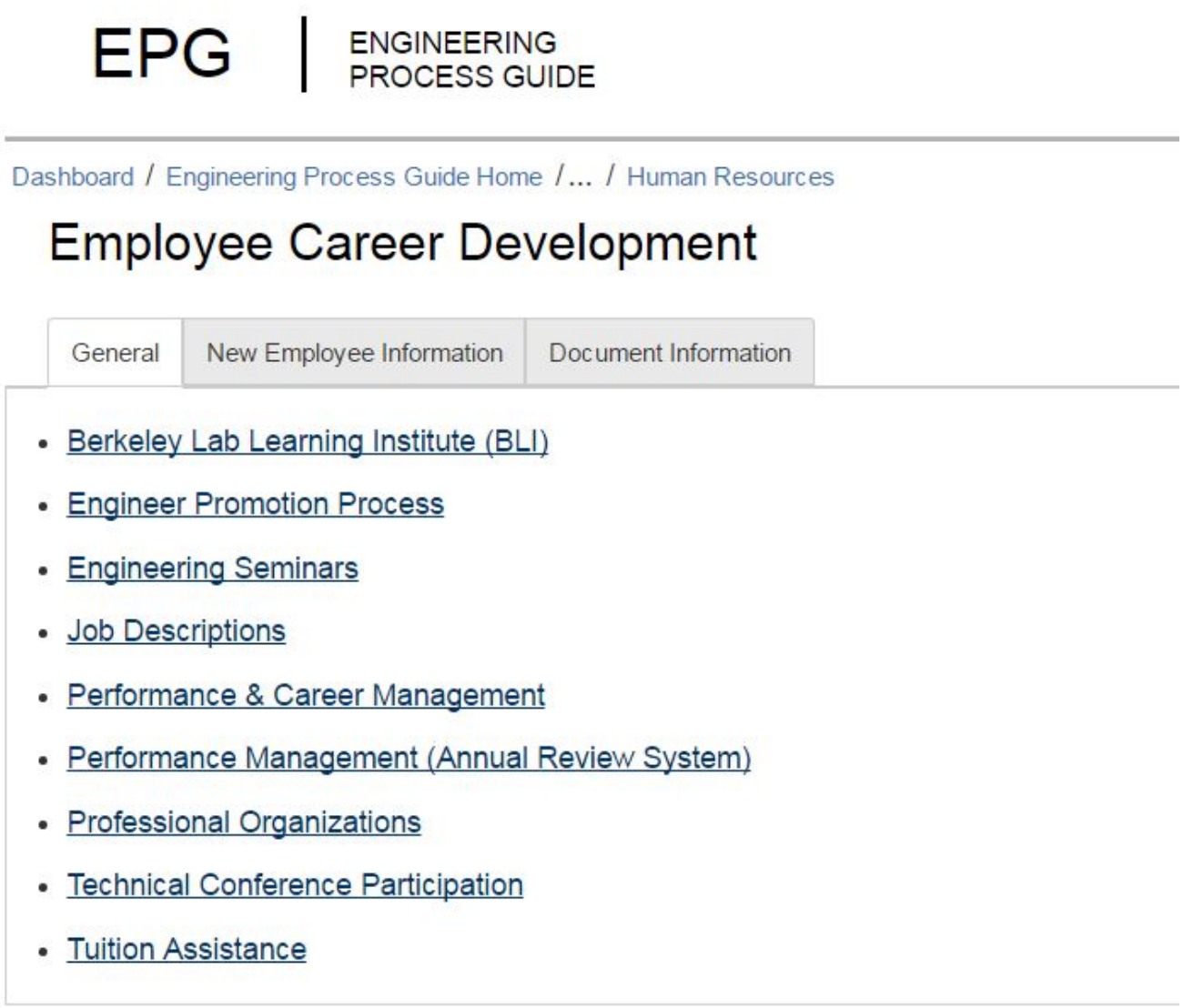
Actions (Required)

- ❑ Discuss WPC (Work Planning & Control) Activities with supervisor and activity lead; you are required to be assigned to at least one WPC Activity. Discuss the activity/activities that you are assigned to, associated hazards, and controls with your supervisor. *(WPC Training)*
- ❑ Read and accept WPC conditions - For each WPC Activity that you are assigned to, you will be required to read and accept the conditions.
- ❑ Complete training identified through WPC.
- ❑ Update Online Directory - New employees may inherit their supervisor's contact information. Update the Lab directory with your office location and phone number/s as appropriate.
- ❑ Login to Gmail - Loging into Gmail will provide you with access to the Google suite of applications. Though the use of Gmail and Gcal are required for all employees, other applications are available/required for various productivity functions.
- ❑ Login to Smartsheet - SmartSheet is a tool used for managing tasks, small projects, or labor resources. Login with your Lab Gmail to activate your Smartsheet account.

Scroll down to E under Resources

- Document Control Center (DCC) Resources - Category codes, engineering notes, and design data.
- Employee Activities Association - Administers Lab clubs and promotes/supports Laboratory-wide recreational, cultural, educational, and social activities.
- Employee Development - Resources and guidance for employee career development.

Employee information



Using Laptops in Non-Office Environments

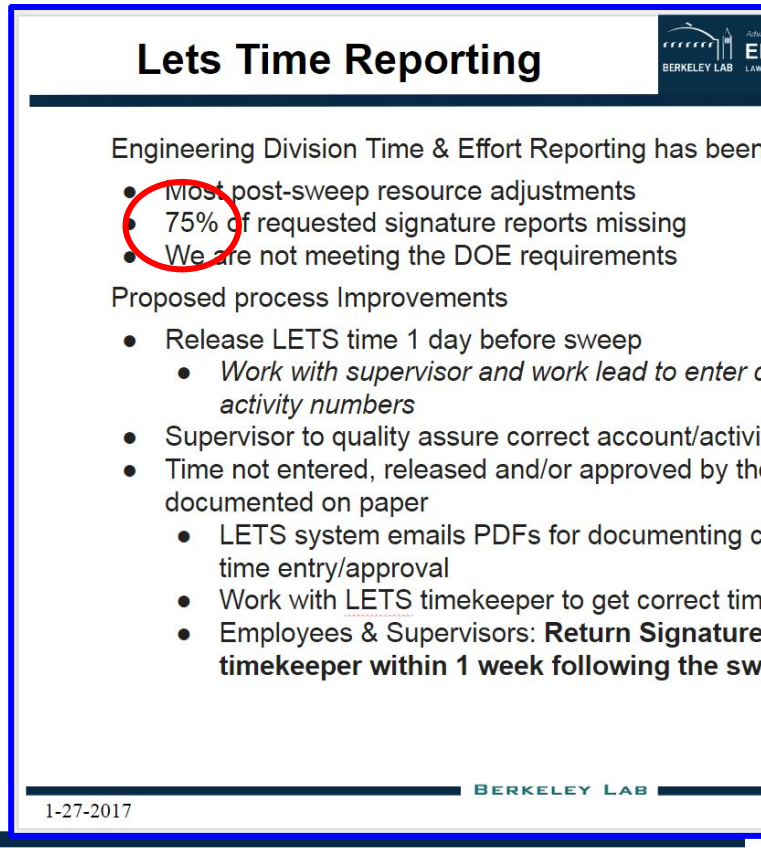
LETS reporting improvements

January through May 2017 Data:

- **3% signature reports missing**

Great improvement!

Please continue.



ENG/ATAP safety day

- 33 obsolete or malfunctioning computers
- 13 rolling bins and 3/4 of a dumpster of paper and cardboard
- 28 hoppers, rolling bins, barrels, and pallets of excess equipment and miscellaneous scrap and salvage
- 1 cargo container filled with still-needed items that were not in active use
- 0 accidents and injuries — the best statistic of all, thanks to appropriate PPE and staying within our training and abilities

Questions?

B50C Patio

This presentation will be posted on our Engineering.lbl.gov site