

11th Department of Energy Laser Safety Officer Workshop

September 27-29, 2016 • Fermilab, Batavia, Illinois



Welcome to the 11th DOE Laser Safety Officer Workshop

Matthew Quinn

11th DOE LSO Workshop

Fermi National Accelerator Laboratory

September 27, 2016

Welcome Outline

- Fermilab Wilson Hall - Emergency Procedures
- Essentials
- Program Overview
- Opening Remarks
 - Amber Kenney Deputy Chief Safety Officer
 - Tim Meyer Chief Operating Officer

Welcome to Fermilab



Things to do

15th floor observation areas



Things to do

2nd floor art gallery



Walking paths



Wilson Hall Emergency Procedures

- Fire Procedures
 - Floor experiencing the problem and floors immediately adjacent will have the strobes activated and 3 beeps followed by voice evacuation instructions
 - Floors adjacent to the affected area will receive voice instructions advising personnel that an emergency exists but no action is required for their floor
 - Floors beyond the affected and adjacent area will not receive any emergency notification, as no action is required of the personnel occupying these floors

Wilson Hall Emergency Procedures

- Emergency Evacuation Routes
 - Stair Route
 - East Tower use southeast stairway
 - West Tower use southwest stairway
 - Secondary Stair Route
 - Floors 3-5 and 7-16 traverse cross-over to opposite south stairway
 - Floor 6 and any floor with both stair routes blocked, exit via the north (open) stairway to the next lower level, then south to enclosed stairway
 - Exit building at the ground floor stairwell doors
 - Proceed to the designated assembly area - the area across the drive in front of the LINAC, Cross-Gallery, and Transfer Hall

Wilson Hall Emergency Procedures

- Tornado
 - A tornado warning is issued by the Communications Center over the Site wide Emergency Warning System (SEWS)
 - Descend using primary stair route
 - Continue down the south stairwells into the basement tornado shelter area
 - Designated shelter consists of the entire basement, tunnels to the Cross Gallery and Auditorium, and selected VMS areas

Essentials

- Power outlets are under seats
- Restrooms
 - North East corner of 1st Floor
 - Alternate across from Auditorium
 - Woman's South East Ground Floor
 - Men's South West Ground Floor
- Breaks
 - In the Atrium area outside 1 West
- Lunch
 - Available in the cafeteria outside 1 West

LSOW Locations

- 2005 – Livermore
- 2006 – Brookhaven
- 2007 – Argonne
- 2008 – Sandia/Los Alamos
- 2009 – U Penn
- 2010 – Berkeley Lab
- 2011 – MIT
- 2012 – SLAC
- 2013 – NIST
- 2014 – Livermore
- 2016 – Fermilab

Workshop Scope and Goals

Scope

- Current laser applications – associated laser safety issues and solutions
- Laser accidents, near misses, lessons learned
- Best practices
- Advances in laser technology and science
- Laser safety training and laser safety program management
- Practical laser safety aspects of optical elements, PPE, other issues

Goals

- To provide the premier source of “Practical Laser Safety” available anywhere
- Share information and methodology for optimizing laser safety programs
- Update and expand our knowledge
- Meet with Vendor Representatives to learn about the latest products and services in laser safety and education
- Discussions with other LSOs following each talk, during breaks, and at the Social Event

Workshop Agenda

Tuesday, September 27, 2016

- 08:00 - 08:30 Registration: Wilson Hall Atrium SW
Convener: Melody Saperston (Fermi National Accelerator Laboratory)
- 08:30 - 10:00 Session 1: Welcome to Fermilab
Convener: Matthew Quinn (Fermilab)
- 08:30 **Welcome to the 11th DOE LSO Workshop** 5'
Speaker: Matthew Quinn (Fermilab)
- 08:35 **Welcome to Fermilab** 25'
Speakers: Fermilab Chief Safety Officer, Fermilab Directorate, Fermilab Fermi Site Office
- 09:00 **The Holographic Universe** 30'
Speaker: Chris Stoughton (Fermilab)
Material: [Slides](#) 
- 09:30 **Searching for Dark Matter** 30'
Speaker: Alex Drlica-Wagner (Fermilab)
- 10:00 - 10:20 Coffee Break (Atrium)
- 10:20 - 11:50 Session 2: Implementations and Applications I
Convener: Joanna Casson (Los Alamos National Laboratory)
- 10:20 **Laser Safety Implementation at Fermilab's FAST Facility** 30'
Speaker: Chip Edstrom (AD/APC/FAST)
- 10:50 **Examples of Controls in Laser Applications at SLAC** 30'
Speaker: Mike Woods (SLAC)
- 11:20 **Challenges of Laser Safety in Multi-program Active Laser Laboratories** 30'
Speaker: Phillip Evans (Oak Ridge National Laboratory)
- 11:50 - 13:15 Lunch (Cafeteria)

Social Event

- Two Brothers Roundhouse
- 6pm Tuesday (tonight!)



Vendors

- Vendor Exhibition starts Wednesday at 2 pm in the Atrium.



Tours

- Wednesday, 3pm
- Busses will be in front of Wilson Hall for FAST, Holometer, NuMI/MINOS. There will be two tour groups for NuMI/MINOS.
- No flip-flops, sandals, or high heel shoes
- Main Control Room/Linac tour will meet in Wilson Hall Atrium.
- Your badge holder has a tour ticket indicating which tour you are registered for.

LSO Appreciation Event



PIZZA Tasting

Join us for a slice of **Pizza**, Chicago style.

September 28, 2016

Wednesday Night 5:30 pm - 8:30 pm

*Mike & Denise's Pizzeria,
1760 N Farnsworth Ave., Aurora, IL 60560*

Event: Pizza tasting with a selection of appetizers.

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Local Organizing Committee

- Fermilab Conference Office
 - Melody Saperston
 - Joy Pomillo
- Dave Baird, Deputy LSO
- Jamie Santucci, FAST Laser Safety Representative
- Workshop Program, Abstracts, Speaker Bios, Computing info is on the Workshop website

<https://indico.fnal.gov/event/LSOW16>

Thank you!

