

WORKSHOP ON ACCELERATOR OPERATIONS

August 6-10, 2012

SLAC National Accelerator Laboratory

Hosted by SLAC and LBNL

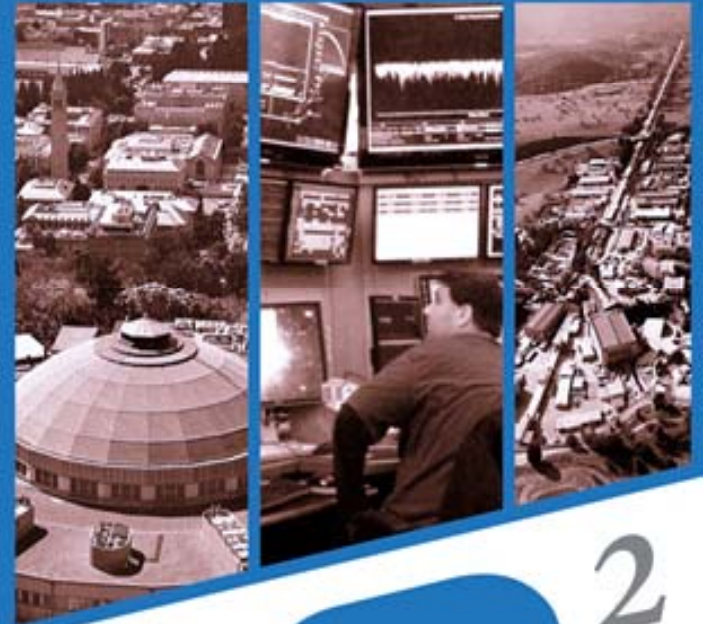
The 8th international Workshop on Accelerator Operations will be held at SLAC National Accelerator Laboratory, August 6-10, 2012. The series of Workshops on Accelerator Operations brings together professionals involved in day-to-day operation of accelerators with the goal of sharing information. By learning how others address such topics as staffing, training, documentation, commissioning, safety and maintenance, attendees can improve the efficiency of their own operations. The format is intended to foster interaction, with a combination of scheduled talks, open discussions, and submitted posters.

Program Topics:

Operator Development	Emergency Preparedness
Managing Safety	Adapting to Change
High Power Beams	Optimizing Diagnostics
Superconducting Systems	Automation
X-Ray FELs	Unique tools for small problems
Reliability & Availability	
Communication	
Recommissioning & Decommissioning	

Program Committee:

Dan Johnson	FNAL
Eichi Takada	NIRS
Kazuro Furukawa	KEK
Larent Hardy	ESRF
Jim Morel	LBNL
Michael Bieler	DESY
Michael Stanek	SLAC
Peter Ingrassia	BNL
Petra Schuett	GSI
Qin Qing	IHEP
Rossano Giachino	CERN
Violeta Toma	TRIUMF
Wenzhi Zhang	SSRF
Glen Johns	ORNL
Noel Okay	JLAB



WAO 2012



For more information:

www-conf.slac.stanford.edu/wao2012

WAO 2012 Summary

Workshop on Accelerator Operations

Hosted by SLAC National Accelerator Laboratory & Lawrence Berkeley National Laboratory

August 10, 2012 at SLAC



Thank you to WAO Local Support staff



SLAC

Helen O'Donnell

Barbara Hemstad

Lisa Adair

Wanda Elliot

Bernadette Espiritu

Queenie Huang

Naomi Nagahashi

Sharon Oden

Judy Pena

IT Support – Ken Zhou

WAO 2012 Statistics

Participants 106

Nations: 14

Australia	Republic of Korea
Canada	Spain
China	Sweden
France	Switzerland
Germany	Taiwan
Italy	United Kingdom
Japan	United States

Research Facilities 38

Accelerator Engineering Corporation	Jefferson Lab
Alba Synchrotron Facility	KEK
ANL	Korea Atomic Energy Research Institute
ARRONAX / Subatech	LANL
Australian Synchrotron	LBNL
BESSY	LNL-INFN-IT
BNL	Mass. Gen. Hospital
Canadian Light Source	National Institute of Radiological Sciences, Japan
Canadian Nuclear Safety Commission	National Synchrotron Radiation Research Center
CERN	NSCL
DESY	Research Center for Electron Photon Science, Tohoku University
Diamond Light Source	Cyclotron and Radioisotope Center, Tohoku University
Fermilab	RIKEN
GSI	Shanghai Institute of Applied Physics
HIT	Sincrotrone Trieste
Indiana University Cyclotron Operations	SLAC
Institute of High Energy Physics	SNS
ISIS	SYNCHROTRON SOLEIL
Jefferson Lab	The Svedberg Laboratory
KEK	TRIUMF

“It’s a Workshop, Not a Conference!”

Share information, participate

- questions, answers, successes, failures
- nearly every participating lab contributed

Broad range of topics

- that is the nature of accelerator operations

Variety of communication methods

- Prepared talks
- Posters
- Open discussions
- Tours
- Keynote Speaker
- Discussions during the breaks, meals

WAO 2012 Summary



SLAC

Intro to several facilities – How We Do Business

- Accelerator details, Organization, Scheduling staff

Developing Staff

- Training, Retention, Advancement
- Formal conduct of Ops, Structured training, & Skill Management vs. Informal On-the-Job training
- **Additional responsibilities**
- **Supplementary projects, “2nd jobs”**

Safety Systems, Tools, Culture

Disaster recovery, lessons learned

- **prepare your Operators with guidance & tools to deal with the unexpected**

WAO 2012 Summary



SLAC

Optimizing group reaction to changing circumstances

Operations has key role in efficient diagnostic development

- Ops/Controls collaboration
- Ops creation of Intuitive GUI or HMI

Automation where possible

- but ensure understanding of what's underneath

Special Challenges

- unique systems, hazards, configurations

Tools for Reliability, Availability tracking, Communication

- Commercial software (BlockSIM, Stockbook)
- sharing software between labs (eg. logbooks)
- UPS power feed 'flywheel' system



Sleep Research

- physiological responses
- sleep disorders
- simple measures (light exposure, sleeping environment)
- Slides of the talk will be posted on the WAO website
- Further Questions for Dr. Kushida can be emailed to
WAO2012.slac.lbnl@gmail.com

WAO 2012 Summary



SLAC

Posters - detailed solutions to several problems

- water leaks, instrumentation, web access to controls, standards, etc.

Poster authors: send poster pdf's to Eiichi. We'll get them on WAO2012 website.

Discussions

Balance rigid procedures & freedom* to explore (& fail)

*within limits/constraints

Control Room summary & brainstorming

(temp control, longer range KVM devices, Access control)

Ideas for Future WAO sessions

Let the Program Committee know if you're interested in hosting a future WAO.

WAO 2012 Program Committee thanks you for your participation!



Dan Johnson, FNAL
Eiichi Takada, NIRS
Kazuro Furukawa, KEK
Larent Hardy, ESRF
Jim Morel, LBNL
Michael Bieler, DESY
Michael Stanek, SLAC
Peter Ingrassia, BNL
Petra Schuett, GSI
Qing Qin, IHEP
Rossano Giachino, CERN
Violeta Toma, TRIUMF
Wenzhi Zhang, SSRF
Glen Johns, ORNL
Noel Okay, JLAB