

7th International Workshop on Radiation Safety at Synchrotron Radiation Sources

May 8-10, 2013

Photon Sciences Directorate, Brookhaven National Laboratory
Building 488, Room B

Wednesday, May 8th:

08:15 - 09:00 Registration

09:00 - 09:30 Welcome Dr. Steve Dierker, ALD Photon Sciences Directorate

Session 1 – New Facility Reports on Commissioning Experience

Chairpersons: Panakkal Job and Yoshihiro Asano

09:30 - 10:00 “*NSLS-II Accelerator Readiness Review and Commissioning*”, L. Scott Walker

10:00 – 10:15 Coffee Break

10:15 - 10:45 “*Comparison of Calculations and Measurements of the Forward and Lateral Radiation Outside the TPS Linac Shielding Room*”, Yu-Chi Lin

10:45 – 11:15 “*Commissioning of the APPLE II Undulator*”, Anne Wefer

Session 2 – Radiation Safety Issues of Future Upgrades of the Light Sources

Chairpersons: Mohammed Benmerrouche and Roberto Madacki

11:30 - 12:00 “*Shielding Designs for the Electron Transport Line of XFEL Facility, SACLA to SPring-8 Storage Ring*”, Yoshihiro Asano

12:00 - 12:30 “*Recent Developments and Future Projects at the ESRF*”, Paul Berkvens

12:30 - 01:30 Lunch Break

Session 3 – Radiological Implications of the Top-Off Operation

Chairpersons: Johannes Bauer and Javier Queralt

01:30 - 02:00 “*Radiation Protection Issues of the Top-Up Operation of BESSY*”, Klaus Ott

02:00 - 02:30 “*Dose Distribution Studies during Top-Up Mode of Operations at Canadian Light Source*”, Asm Sabbir Ahmed

02:30 – 03:00 “*Proposed Personal Protection Controls for the Top-Off Operation at the National Synchrotron Light Source II*”, Panakkal Job

03:00 - 03:15 Coffee Break

Session 4 – Measurements to Evaluate Shielding Designs

Chairpersons: Scott Walker and Manuela Helmecke

- 03:15 – 03:45 “*Bremsstrahlung Measurements at FLASH*”, W. Clement
- 03:45– 04:15 “*Systems of Radiation Monitoring at SR Facilities at BINP*”, A.V. Repkov
- 05:30 – 08:30 [Workshop Dinner Banquet](#) - Brookhaven Center (Bldg. 30)

Thursday, May 9th

Session 5 – Measurements to Evaluate Shielding Designs

Chairpersons: Hee-Sock Lee and Zhenghua Xia

- 08:30 - 09:00 “*The Gamma and Neutron Dose Rate Due to the Total Stored Beam Losses at the ALBA Synchrotron*”, Xavier Queralt
- 09:00 - 09:30 “*Beam Loss Monitoring System inside Elettra Storage Ring*”, Katia Casarin
- 09:30 – 10:00 “*A Comparative Study between Passive and Electronic Radiation Dose Detectors*”, M.J. Garcia
- 10:00 – 10:15 Coffee Break

Session 6 – Radiation Safety Design and Assessment

Chairpersons: Sayed Rokni and Katia Casarin

- 10:15 - 10:45 “*Shielding Design for Sirius*”, Roberto Madacki
- 10:45 – 11:15 “*Neutron Deep-Penetration Calculations and Shielding Design of Proton Therapy Accelerators*”, Rong-Jiun Sheu
- 11:15 - 11:45 “*Radiological Safety Considerations of a 40 kW 35 MeV Electron Linear Accelerator at the Canadian Light Source*”, Pradyot Chowdhury
- 11:45 - 12:15 “*Assessing Radiation Safety Requirements for a New Insertion Device at CAMD*”, Lorraine Day
- 12:15 - 01:30 Lunch Break

Session 7 – Radiation Safety Design and Assessment

Chairpersons: James C. Liu and Justyna Potoczny

- 01:30 - 02:00 *“Shielding Re-Evaluation for the Linac to Booster Transfer Line at the Canadian Light Source”*, Mohammed Benmerrouche
- 02:00 - 02:30 *“Status of Radiation Safety System at Taiwan Photon Source”*, Joseph Chih-Ching Liu
- 02:30 – 03:00 *“Radiation Estimations for SESAME Storage Ring Tunnel and first day XAFS/XRF Beamline”*, Adli Mosa Hamad
- 03:00 - 03:15 Coffee Break

03:30 ----- Bus Pick-up at Berkner Hall

03:40 – 05:00 NSLS-II Tour

Friday, May 10th

Session 8 – Radiation Safety Design and Assessment

Chairpersons: Klaus Ott and Alessandro Vascotto

- 08:30 - 09:00 *“Radiation Safety Aspects of the MARS Beam Line at SOLEIL”*, Jean-Baptiste Pruvost
- 09:00 - 09:30 *“Neutron Spectra and Dosimetric Quantities Outside Typical Concrete Shielding of Synchrotron Facilities”*, James C. Liu
- 09:30 – 10:00 *“Shielding Design of Test Facility of Superconducting RF Cavity for PLS-II and Commissioning Results”*, Hee-Seock Lee
- 10:00 – 10:15 Coffee Break

Session 9 – Radiation Safety Design and Assessment

Chairpersons: Joseph Liu and Alyssa Prinz

- 10:15 - 10:45 *“The Design of Radiation Safety Access Control System for the Taiwan Photon Source”*, Chien-Rong Chen
- 10:45 – 11:15 *“The Personnel Interlock System at the European XFEL”*, Brunhilde Racky
- 11:15 - 11:45 *“Supplemental Shielding Calculation of BMIT SOE1 at the Canadian Light Source”*, Basseyy Basseyy

11:45 - 01:00 Lunch Break

Session 10 – Radiation Safety Issues of the Next Generation Facilities

Chairpersons: Brunhilde Racky and Magnus Lundin

01:00 - 01:30 “*Radiation Safety Aspects of LCLS-II Project at SLAC*”, Sayed Rokni

01:30- 02:00 “*Shielding Design of the PAL-XFEL Tunnel and Its Test Facilities*”, Nam-Suk Jung

02:00 – 02:30 “*Activation Calculations with FLUKA for the BERLinPro Vacuum System*”, Manuela Helmecke

02:30 - 03:00 “*Radiation Safety at LCLS: Maximum Credible Beam, B4C Damage Threshold, Configuration Control*”, Johannes Bauer

03:00– 03:15 Coffee Break

03:15 – 03:45 “*Estimation of the Survivability of Boron Carbide and Steel Struck by the Direct FEL X-Ray Beam of LCLS*”, Alyssa Prinz

04:00 – 05:00 Closeout Panel Discussion: Paul Berkvens
Sayed Rokni
Klaus Ott

