

# SLAC DLSR Workshop: Goals



1. Discuss and further refine the science case for DLSRs.
2. Define the range of machine parameters for the science case.
3. Discuss the issues, challenges and proposed solutions for DLSR accelerators.
4. Work to define a technology roadmap photon beam lines
  - i.e. R&D for optics, detectors, sample handling, DAQ, simulation data storage, accelerator technology, etc.
5. Provide session summary presentations (session Chairmen)

# SLAC DLSR Workshop: Agenda

9 December

Welcome and Introductions – Plenary Session (Kavli Auditorium Bldg. 51)					
8:00 – 8:15	Welcome	C-C. Kao			
8:15 – 8:30	Workshop goals	R. Hettel			
8:30 – 9:00	Science Opportunities – Hard X-rays	F. Sette			
9:00 – 9:30	Science Opportunities – Soft X-rays	S. Kevan			Chair: R. Falcone (ALS)
9:30 – 10:00	DLSR Design – Parameter trade-offs	M. Borland			
10:00 – 10:20	~~~~ Photo and Coffee Break ~~~~				
10:20 – 10:40	MAX-IV Update	M. Eriksson			Chair: H. Tanaka (SPring-8)
10:40 – 11:00	ESRF Upgrade Plans	P. Raimondi			
11:00 – 11:20	APS-U Plans	B. Stephenson			
11:20 – 11:40	Sirius Update	L. Lin			
11:40 – 12:00	Spring-8 Plans	T. Ishikawa			
12:00 – 12:20	BAPS Plans	J. Wang			
12:20 – 12:40	ALS-II Plans	C. Steier			
12:40 – 1:45	~~~~ Lunch (Redwood Rooms, Bldg. 48) ~~~~				
Accelerator Session 1: Accelerator Physics Aspects of Component Design (Redwood Rooms, Bldg. 48)			Photon Session 1: New Techniques and Methods (Redwood Rooms, Bldg. 48)		
1:45 – 2:15	Overview of AP Issues Facing DLSR Lattice and Component Design	D. Robin (ALS)	Chair: R. Bartolini	New Techniques and Methods Enabled by DLSRs	C. Schroer
2:15 – 3:30	Short Presentations on AP Issues and Questions from Lab Representatives	MAX-IV: M. Eriksson APS-U: M. Borland ESRF: P. Raimondi Sirius: L. Lin SPring-8: H. Tanaka Others		Short Presentations/discussions on XPCS, MX, Scanningprobes, CDI	ESRF: T. Schull ESRF: P. Cloetens APS: A. Sandy APS: S. Vogt APS: R. Fischetti Others
3:30 – 3:45	~~~~ Coffee Break ~~~~				
3:45 – 4:45	Short Presentations on AP Issues and Special Modes (short bunch, timing modes, etc.)	PETRA-III: A. King Harm Cav: J. Byrd Others as needed	Chair: R. Bartolini	Short Presentations/discussions on XPCS, MX, Scanningprobes, CDI (continued)	Chair: C. Schroer
4:45 – 5:30	Discussion, Future Topics			Discussion, Future Topics	
Joint Sessions: Accelerator and Photon Science (Kavli Auditorium Bldg. 51)					
5:30	Updates on Discussions, Plans for Next Day				Chair: TBD

# SLAC DLSR Workshop: Agenda – cont.

10 December

Accelerator Session 2: Magnet Design (Redwood Rooms, Bldg. 48)				Photon Session 2: Sample and Dose Issues (Redwood Rooms, Bldg. 48)			
8:00 – 8:30	Overview of Magnet Design Issues	J. Chevanne (ESRF)		8:00 – 8:30	Overview of Minimum Dose Issues	P. Fuoss (APB)	
8:30 – 10:00	Short Presentations on Magnet Design Issues from Lab Representatives	MAX-IV: D. Einfeld APB-U: G. Decker Sifius: R. Neuenschwander BPring-6: H. Tanaka ALB-II: H. Tanwani Others	Chair: M. Eriksson	8:30 – 10:00	Short Presentations/Discussion on Minimum Doses Needed to Get Reasonable Data		Chair: P. Fuoss (APB)
10:00 – 10:30	----- Coffee Break -----						
10:30 – 11:45	Presentations, Discussion, Future Topics	Others		10:30 – 12:15	Short Presentations/Discussion on Radiation Damage		Chair: P. Fuoss (APB)
Accelerator Session 3: Vacuum Chamber Design (Redwood Rooms, Bldg. 48)				Photon Session 3: Technologies (Redwood Room, Bldg. 48)			
11:45 – 12:15	Overview of Vacuum Design Issues	H. Cease (APB)		1:30 – 2:00	Technologies	M. Yabeshi	
12:15 – 1:30	----- Lunch (Redwood Rooms, Bldg. 48) -----						
1:30 – 2:45	Short Presentations on Vacuum Design Issues from Lab Representatives	MAX-IV: D. Einfeld ESRF: J-R. Revol Sifius: R. Neuenschwander BPring-6: S. Takahashi ALB-II: A. Anders DLB: M. Cox Others	Chair: G. Decker	2:00 – 2:45	Short Presentations/Discussion on Technologies Required to Take Advantage of the Properties of DLBRs	G. Carini	Chair: M. Yabeshi (BPring-6)
	Vacuum discussions, Future Topics						
3:15 – 3:30	----- Coffee Break -----						
Accelerator Session 4: Injection (Redwood Rooms, Bldg. 48)				Photon Session 4: Technologies (Redwood Room, Bldg. 48)			
3:30 – 5:00	Short Presentations on Injection Design Issues from Lab Representatives	MAX-IV: D. Einfeld APB-U: M. Borland ESRF-U: Sifius: L. Lin BPring-6: H. Tanaka ALB-II: C. Steier Others	Chair: R. Walker	3:30 – 5:00	Short Presentations/Discussion on Technologies Required to Take Advantage of the Properties of DLBRs (continued)		
5:00 – 5:30	Discussions, Future Topics			5:00 – 5:30	Discussion, Future Topics		Chair: M. Yabeshi (BPring-6)
Joint Sessions: Accelerator and Photon Science (Kavli Auditorium Bldg. 51)							
5:30	Updates on discussion, plans for next day						Chair: TBD

11 December

Accelerator Session 5: Report Writing (Redwood Rooms, Bldg. 48)				Photon Session 4: Report Writing (Redwood Rooms, Bldg. 48)			
8:00 – 10:30	Close-out Report Writing			Close-out Report Writing			
10:30 – 11:00	----- Coffee Break -----						
Joint Sessions: Accelerator and Photon Science (Kavli Auditorium Bldg. 51)							
11:00 – 12:00	Close-out reports and plans for next steps						Chair: TBD