

**Accelerator and Detector Research Program Comparative Review
Advanced Beam Dynamics and Modeling Session - Oak 1**

Tuesday, April 30, 2019

Presenter	Institution	Title	Time
Eliane Lessner	DOE	Introductory Remarks	9:05-9:20
Alexander Aiken	SLAC	Democratizing Accelerators	9:20 -10:00
Nickolas Evans	ORNL	Self-consistent Beam Distribution	10:00-10:40
		BREAK	10:40-11:00
John Powers	ANL	Emittance Exchange for High-Brightness Beams	11:00-11:40
Cho Ng & Ji Qiang	SLAC	Integrated Electromagnetics and Beam Dynamics Simulation for Light Source	11:40-12:20
		LUNCH	12:20-1:30
Auralee Edelen	SLAC	Surrogate Modeling for Fast, Accurate Design and Control of XFELs	1:30-2:10
Simon Leemann	LBNL	Beam Based Optimization and Machine Learning for Synchrotrons	2:10-2:50
Xiaobiao Huang	SLAC	Beam Based Optimization and Machine Learning for Synchrotrons	2:50-3:30
		BREAK	3:30-3:50
Jeroen van Tilborg	LBNL	A compact laser-plasma-accelerator-based free-electron laser for ultra-fast hyper-spectral experiments	3:50-4:30
Kwang-je Kim	ANL	Does a Free Electron Laser Exhibit Non-Classical Statistics?	4:30-5:10

Auralee Edelen for Daniel Ratner
John Powers for Manuel Conde