January 15-17, 2020 Modeling and Validation of CryoEM Map Workshop Agenda

Redwood Conference Room, Bldg 48, SLAC National Accelerator Laboratory, Menlo Park, CA

https://vue.slac.stanford.edu/slac-visitor-map

Wednesday, January 15, 2020

Time	Title	Speaker
Map and Structure Visualization, Segmentation, Modeling Fitting		
9:00 AM	ChimeraX - Visualization of CryoEM maps and models	Tom Goddard, Elaine Meng, Eric Petterson
10:15 AM	Break	
10:45 AM	ChimeraX - Visualization of CryoEM maps and models	Tom Goddard, Elaine Meng, Eric Petterson
12:00 PM	Lunch	
1:15 PM	Segmentation, Rigid Body and Flexible Fitting	Greg Pintilie
2:00 PM	ChimeraX - Visualization of CryoEM maps and models	Tom Goddard, Elaine Meng, Eric Petterson
3:00 PM	Break	
3:30 PM	Publication-Quality images and movies	Tom Goddard
4:30 PM	Hands on VR to visualize CryoEM structures*	Michael Schmid

Day 2: Thursday, January 16, 2020

Time	Title	Speaker
Modeling With Phenix		

Time	Title	Speaker
9:15 AM	Phenix Introduction	Paul Adams
9:30 AM	Automated Model Docking and Building	Paul Adams
10:30 AM	Break	
11:00 AM	Structure Refinement	Pavel Afonine
12:00 PM	Validation and Refinement	Paul Adams
12:30 PM	Lunch	
1:30 PM	Introduction to Phenix cryo-EM Tools Practical	Paul Adams
2:00 PM	Automated Model Building Practical	Paul Adams
3:00 PM	Break	
3:30 PM	Structure Refinement and Validation Practical	Pavel Afonine
4:30 PM	Ligands	Nigel Moriarty

Day 3: Friday, January 17, 2020

Time	Title	Speaker
	Structure Annotation and Validation	
9:00 AM	Assessment of High Resolution CryoEM Map Features	Greg Pintilie
10:15 AM	**Break**	
11:00 AM	Practical with Apoferritin and other Molecules (Phenix and/or ChimeraX)	Tom Goddard, Paul Adams, Greg Pintilie
12:00 PM	Lunch **Courtesy of Thermo FIsher**	

Time	Topic	Speaker
1:15 PM	Validation of Biological Structures	Helen Berman
2:00 PM	CryoEM Structural Validation	Cathy Lawson
3:00 PM	Break	
3:30 PM	Practical and General Discussions	
5:00 PM	End	