Mon 3rd		Tues 4th			Wed 5th			Thur 6th			
Start	End	Session/Speaker	Start	End	Session/Speaker	Start	End	Session/Speaker	Start	End	Session/Speaker
8.00	8.45	Registration	9.00	9.35	Keynote 4 Petra Fromme Chair: Yuval Mazor	9.00	10.20	Session 8 Computational biology Chair: Josh Vermaas	9.00	10.05	Session 10 Carbon Metabolism and Beyond Chair: Xin Wang
8.45	9.00	Opening Welcome Hastings/Bruce	9.35	10.40	Session 4 Light harvesting (regulation) 2 Chair: Yuval Mazor	10.20	10.40	coffee break	10.05	10.25	coffee break
9.00	9.35	Keynote 1 Cheryl Kerfeld Chair: Josh Vermaas	10.40	11.00	coffee break	10.40	12.00	Session 9 LD-ET & products Chair: Colin Gates	10.25	11.45	Session 11 Biofuels/Photosynthetic Products/New Things Chair: Ru Zhang
9.35	10.40	Session 1 Antenna & light harvesting 1 Chair: Gabriela Schlau-Cohen	11.00	12.05	Session 5 LD-ET & RC Chair: Jessica Anna			Free Time	11.45	12.00	Closing remarks Awards Announcements
10.40	11.00	coffee break	12.05	1.30	Lunch	6.00	8.00	Meet up - Park Tavern			
11.00	11.30	Keynote 2 Rowan Sage Chair: Asaph Cousins	1.30	2.05	Keynote 5 Helmut Kirchhoff Chair: Barry Bruce						
11.30	12.40	Session 2 Carbon Assimilation & Photorespiration. Chair: Laura Gunn	2.05	3.10	Session 6 Advances in Electron Transport & Metabolite Management Chair: Wim Vermaas						
12.40	1.50	Lunch	3.10	3.30	Coffee Break						
1.50	2.55	Session 3 Biogenesis & Pigments Chair: David Vinyard	3.30	4.55	Session 7: Innovations in PS I and II Research Chair: Sergei Savikhin						
2.55	3.15	coffee break	5.00	7.00	Poster session B/Mixer						
3.30	4.45	Public Lecture, Keynote 3 Rachael Morgan-Kiss Chair: Xin Wang				_					

4.45 7.00

Poster session A/Mixer

Monday 3rd June

	8.00	8.45	Registration	
	8.45	9.00	Opening/Welcome: Hastings/Bruce	
	9.00	9.35	Keynote: Cheryl Kerfeld Chair: Josh Vermaas	Structural Insights into Cyanobacterial Light Harvesting and Photoprotection
	9.35	9.40	Chair: Gabriela Schlau-Cohen	
	9.40	9.55	Alison Squires	Single-molecule Studies of Quenched Light Harvesting Proteins in an Anti- Brownian Electrokinetic (ABEL) Trap
Session 1 Antenna & light	9.55	10.10	Dihao Wang	Structure and dynamics of antenna complexes during chromatic acclimation
harvesting	10.10	10.25	Sara Massay	Fluence-dependent transient absorption reveals the functional connectivity of red chlorophyll sites in cyanobacterial PSI
	10.25	10.40	Lyudmila Slipchenko	The power of multiscale molecular modeling in understanding the structure and function of photosynthetic proteins
	10.40	11.00	coffee break	
	11.00	11.30	Keynote 2: Rowan Sage Chair: Asaph Cousins	Early Events in the Evolution of C ₄ Photosynthesis
	11.30	11.35	Chair: Laura Gunn	
	11.35	11.50	Rob Burnap	Towards a mechanism of CO ₂ uptake by NDH-1 complexes in cyanobacteria
Session 2 Carbon Assimilation and	11.50	12.05	Adrien Burlacot	Robust photosynthetic CO_2 fixation under fluctuating environments relies on a mix of alternative photosynthetic electron pathways.
Photorespiration	12.05	12.20	Noam Prywes	Rubisco biochemistry in vivo.
	12.20	12.40	Karolina Heyduk Chair: Rowan Sage	Evolution of Crassulacean acid metabolism through the lens of genomics
	12.40	1.50	Lunch/Posters	l
	1.50	1.55	Chair: David Vinyard	
	1.55	2.10	David Vinyard	Biogenesis and maintenance of the photosynthetic apparatus
Session 3	2.10	2.25	Yulia Pushkar	Similarities and differences in the water oxidation mechanism of the Photosystem II and artificial analogs.
Biogenesis & Pigments	2.25	2.40	Jennifer Bridwell-Rabb	A Metalloprotein Catalyzed Transformation in Chlorophyll Metabolism
	2.40	2.55	Roberto Espinoza-Carral	Phycobilisome linker protein ApcG from <i>Synechocystis sp.</i> PCC 6803 regulates energy transfer from photosystem II to photosystem I
	2.55	3.15	coffee break	l e e e e e e e e e e e e e e e e e e e
	3.30	4.45	Public Lecture: Rachael Morgan-Kiss Chair: Xin Wang	Photosynthesis on the edge: the wild frontier of a polar desert (McMurdo dry valleys, Antarctica)
	4.45	7.00	Poster session A/Mixer	

	Tue	esday 4th		
	9.00	9.35	Keynote: Petra Fromme Chair: Yuval Mazor	Time Resolved Serial Crystallography and X-Ray Spectroscopy on Photosynthetic Systems
	9.35	9.40	Chair: Yuval Mazor	
Session 4	9.40	9.55	Yuval Mazor	Multiple modes of PSI IsiA interaction in cyanobacteria
Antenna Pigments	9.55	10.10	Michael Reppert	Excitonic Tuning of Vibrational Coupling in Chlorophyll Proteins
Antenna i ignients	10.10	10.25	Graham Schmidt	Slow energy transfer rates in a structurally unusual light-harvesting complex 2
	10.25	10.40	Chris Gisriel	Structure of a biohybrid photosystem I-platinum nanoparticle solar fuel catalyst
	10.40	11.00	coffee break	
	11.00	11.05	Chair: Jessica Anna	
	11.05	11.20	Jessica Anna	Probing the Red Chlorophylls of Photosystem I with Multispectral Multidimensional Optical Spectroscopy
Session 5	11.20	11.35	Moritz Kretzschmar	Time resolved XFEL structures of the intermediates of the ultrafast light reaction of photosystem I
Light driven ET and RCs	11.35	11.50	Wu Xu	Development of a TSR-based method for understanding structural relationships of the electron transfer cofactors and their local environments in Photosystem I
	11.50	12.05	Philip Laible	Enabling a Vestigial Electron Transfer Pathway in Bacterial Photosynthetic Reaction Centers
	12.05	1.30	Lunch	
	1.30	2.05	Keynote: Helmut Kirchhoff Chair: Barry Bruce	From molecule to membranes: A journey from micrometers to nanometers into the hardware that converts solar radiation into chemical energy.
	2.05	2.10	Chair: Wim Vermaas	
Session 6	2.10	2.25	Malgorzata Krysiak	Understanding light-induced acceleration of linear electron transport in plants
Advances in Electron	2.25	2.40	Setsuko Wakao	Gaining insight into the functions of unknown genes by multi-omic signatures
Transport and Metabolite	2.40	2.55	Audrey Short	Elucidating Photoprotective Dynamics in Fluctuating Light Environments through Modeling
Management	2.55	3.10	Harvey Hou	Cyanobacteria metabolite overflow for energy management revealed by HPLC and LCMS
	3.10	3.30	coffee break	
	3.30	3.35	Chair: Sergei Savikhin	
	3.40	3.55	Gabriel Bury	Simulated EXAFS of Native and Sr-OEC models suggest heterogeneity in S₃ state
Session 7	3.55	4.10	Zhuoran Long	Molecular Dynamics Insights into Functional Roles of Water in Photosystem II Water Channels
Innovations in Photosystem	4.10	4.25	Brandon Russell	Utilizing wavelet analysis to deconvolute oscillations during water oxidation
and II Research	4.25	4.40	Hiroki Makita	Polarized Infrared Spectroscopy of a Single Photosystem I Microcrystal
	4.40	4.55	Sergei Savikhin	Revealing details of initial charge separation in the reaction center of photosystem I by site-directed mutagenesis and ultrafast spectroscopy.
	5.00	7.00	Poster session B/Mixer	

Wednesday 5th June

		9.00	9.05	Chair: Josh Vermass	
		9.05	9.20	Josh Vermaas	Atomic View of Photosynthetic Metabolite Permeability Pathways and Confinement in Cyanobacterial Carboxysomes
	Session 8	9.20	9.35	Doran Raccah	Integrative Modeling of Photosystem II Light Harvesting
Con	mputational Biology	9.35	9.50	Melih Sener	Integrative modeling of photosynthetic energy conversion from electronic to cell scale
Con	inputational biology	9.50	10.05	Jack Lawrence	Charge separation in Photosystem I investigated through predictive first principles modeling
		10.05	10.20	Seda Kelestemur	Inspired by Nature: Amino Acids for Robust Hierarchical Supramolecular Assembly
		10.20	10.40	coffee break	
		10.40	10.45	Chair: Colin Gates	
		10.45	11.00	Colin Gates	External Controls on Photosystem II-Cyclic Electron Flow
N	Morning Session 9	11.00	11.15	Chuck Dismukes	70 Years since Calvin-Benson: Where are the bottlenecks? Which phototrophs can sprint? Any marathoners?
Li	ght Driven ET and Products	11.15	11.30	Anagha Krishnan	Understanding and engineering photosynthesis in a highly productive marine algal genus, <i>Picochlorum</i>
		11.30	11.45	Kevin Redding	Light-driven electron transport in heliobacteria
		11.45	12.00	Himanshu Mehra	Expanding the roles of the accessory TPR protein PratA in Synechocystis sp. PCC 6803
				Free Time	
		6.00	8.00	Meet Up-Park Tavern	

Thursday 6th June

	9.00	9.05	Chair: Xin Wang	
	9.05	9.20	Xin Wang	Modulating dark respiration for improved photosynthesis in cyanobacteria
Session 10 Carbon Metabolism and	9.20	9.35	Bo Wang	Alteration of central carbon metabolism in cyanobacteria for biosynthesis of glycogen and sucrose
Beyond	9.35	9.50	Maria Santos	Dramatic restructuring of carbon concentrating machinery accompanies energy imbalance and oxidative stress in cyanobacterial mutants of the circadian regulator RpaA
	9.50	10.05	Jiangping Yu	Carbon and phosphorus metabolism contribute to energy regulation in cyanobacteria
	10.05	10.25	coffee break	
	10.25	10.30	Chair: Ru Zhang	
	10.30	10.45	Ru Zhang	Photosynthesis dynamics under moderate and acute high temperatures in the model green alga <i>Chlamydomonas reinhardtii</i>
Session 11	10.45	11	Sunil Tiwari	Impact of environmental factors on cyanobacterial growth and phycocyanin levels
Biofuels/Photosynthetic Products/New Things	11.00	11.15	Andrew Paton	The VDE and ZEP3 Genes of the Model Diatom <i>Phaeodactylum tricornutum</i> Mediate Its Major Xanthophyll Cycle
	11.15	11.30	Michal Koblížek	Cold-loving bacterium from a mountain lake harvests light energy using both bacteriochlorophyll-containing photosystems as well as proton-pumping rhodopsins
	11.30	11.45	Wim Vermaas	Characterization of cyanobacterial mutants with reduced PSI
	11.45	12.00	Awards/Closing Rema	rks