

# Program

## Friday, October 28

4:00 - 6:00 pm	Registration & Poster Hanging
6:00 pm	Dinner
7:30 pm	Introduction and Welcome
7:40 - 8:20 pm	<b>Keynote Lecture:</b> Jennifer Bridwell-Rabb: <i>Metalloproteins in Chlorophyll Biosynthesis</i>
8:20 - 8:40 pm	Jacob Wat: <i>Rapid Screening of Metallo-Chlorophylls Complexed with Water Soluble Chlorophyll Proteins</i>
8:40 - 9:00 pm	Leslie Castillo: <i>Depletion Reveals Role of Bicarbonate in the Cyanobacteria Photosynthetic Electron Transport Chain</i>
8:00 - 9:20 pm	Jens Niklas: <i>Coherences of Photo-Induced Electron Spin Qubit Pair States in Photosystem I</i>
9:30 pm	Mixer and Poster Session

## Saturday, October 29

7:00 am	Breakfast
9:00 - 9:40 am	<b>Keynote Lecture:</b> Himadri Pakrasi: <i>Photosynthesis and Nitrogen Fixation in a Unicellular Cyanobacterium.</i>
9:40 - 10:00 am	Ningdong Xie: <i>Dark Respiration Prepares Photosynthesis Initiation Through the Phosphoketolase and ED Aldolase Metabolism in Cyanobacteria</i>
10:00 - 10:20 am	Harvey Hou: <i>Photosynthetic metabolic overflow in cyanobacteria</i>
10:20 - 10:40 am	Coffee Break

<b>10:40 - 11:00 am</b>	Anton Avramov: <i>Terminal phenotypes in Cyanobacteria. Lessons that we can learn?</i>
<b>11:00 - 11:20 am</b>	Claire A. Huffine: <i>[CO<sub>2</sub>] Impacts In vivo Carboxysome Redox Dynamics</i>
<b>11:20 - 11:40 am</b>	Daipayan Sarkar: <i>Comparing Photosynthetic Metabolite Permeability Across Bacterial Microcompartment Shell Proteins</i>
<b>11:40 - 12:00 pm</b>	Seth Cook: <i>RT Log Phase Measurement Using an IoT-Device-Controlled Photobioreactor</i>
<b>12:00 - 12:20 pm</b>	Rebekah White: <i>Automating the analysis of Synechocystis TEM image datasets using machine learning</i>
<b>12:30 pm</b>	<b>Lunch</b>
<i>Afternoon Free</i>	
<b>4:00 - 6:00 pm</b>	<b>Poster Session</b>
<b>6:00 pm</b>	<b>Dinner</b>
<b>7:30 - 7:50 pm</b>	Qijie Shen: <i>Detecting the red state in phycobilisomes and unravelling its potential role in photoprotection</i>
<b>7:50 - 8:10 pm</b>	Devon Popson: <i>Long-term acclimation and adaptation shape the short-term high light stress response in the Antarctic alga, Chlamydomonas priscuii</i>
<b>8:10 - 8:30 pm</b>	Steven McKenzie: <i>Phosphorylation and oxidative damage mediate Photosystem II disassembly in Arabidopsis thaliana</i>
<b>8:30 pm</b>	<b>Poster Session</b>

**Sunday, October 30**

<b>7:00 am</b>	<b>Breakfast</b>
<b>9:00 - 9:20 am</b>	Eric Wu: <i>Vibrationally enhanced excitation energy transfer (EET) in CPC and APC unit of Phycobilisome</i>
<b>9:20 - 9:40 am</b>	Haijun Liu: <i>Cyanobacterial Phycobilisome Allostery as Revealed by Quantitative Mass Spectrometry</i>
<b>9:40 - 10:00 am</b>	Sandeep Biswas: <i>Reevaluating the evolution of the photosystem II core antenna proteins in cyanobacteria</i>
<b>10:00 - 10:30 am</b>	<b>Coffee Break</b>
<b>10:30 am</b>	<b>Awards Presentations</b>