

Program

Friday, October 27

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

Saturday, October 28

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

10:40 - 11:00 am Anton Avramov: *Terminal phenotypes in Cyanobacteria. Lessons that we can learn?*

11:00 - 11:20 am Clair A. Huffine: *[CO₂] Impacts In vivo Carboxysome Redox Dynamics*

11:20 - 11:40 am Daipayan Sarkar: *Comparing Photosynthetic Metabolite Permeability Across Bacterial Microcompartment Shell Proteins*

11:40 - 12:00 pm Seth Cook: *RT Log Phase Measurement Using an IoT-Device-Controlled Photobioreactor*

12:00 - 12:20 pm Rebekah White: *Automating the analysis of Synechocystis TEM image datasets using machine learning*

12:30 pm **Lunch**

Afternoon Free

4:00 - 6:00 pm **Poster Session**

6:00 pm **Dinner**

7:30 - 7:50 pm Qijie Shen: *Detecting the red state in phycobilisomes and unravelling its potential role in photoprotection*

7:50 - 8:10 pm Devon Popson: *Long-term acclimation and adaptation shape the short-term high light stress response in the Antarctic alga, Chlamydomonas priscuii*

8:10 - 8:30 pm Steven D. McKenzie: *Phosphorylation and oxidative damage mediate Photosystem II disassembly in Arabidopsis thaliana*

8:30 pm **Poster Session**

Sunday, October 29

7:00 am

Breakfast

9:00 - 9:20 am

Ping-Jui Eric Wu: *Vibrationally enhanced excitation energy transfer (EET) in CPC and APC unit of Phycobilisome*

9:20 - 9:40 am

Haijun Liu: *Cyanobacterial Phycobilisome Allostery as Revealed by Quantitative Mass Spectrometry*

9:40 - 10:00 am

Sandeep Biswas: *Reevaluating the evolution of the photosystem II core antenna proteins in cyanobacteria*

10:00 - 10:30 am

Coffee Break

10:30 am

Awards Presentations