

# George Feher Memorial Symposium - Friday, 5 Oct 2018

Fred Kavli Hall of Science, Tata Building, UC San Diego

## 09:00 – Overview and Introduction

Melvin Okamura (UC San Diego, Prof. emeritus)

## 09:30 - Bioenergetics Session

15 min Overview by Marilyn Gunner (CUNY)

25+5 min Richard Debus (UC Riverside)

"From the bacterial reaction centers to O<sub>2</sub> evolution in photosystem II"

25+5 min Peter Brzezinski (Stockholm)

"Supramolecular interactions in the mitochondrial respiratory chain"

25+5 min Ana and Thomas Moore (ASU)

"Proton coupled electron transfer in artificial photosynthesis: One e<sup>-</sup> oxidation coupled to multiple proton transfers in bio-inspired H-bonded networks"

11:15 - 15 min BREAK

## 11:30 - *Keynote Lecture* Daniel Nocera (Harvard)

"Proton coupled electron transfer: From biology to global energy"

12:30 - LUNCH BREAK

## 13:30 - Structure Session

15 min Overview by James Allen (ASU)

25+5 min Petra Fromme (ASU)

"Time-resolved femtosecond crystallography studies of light driven photosynthetic systems with X-ray free electron lasers"

25+5 min Douglas Rees (Caltech)

"Electrons, protons and proteins: From photosynthesis to nitrogen fixation"

## 14:45 - Spectroscopy Session

15 min Overview by Marco Flores (ASU)

25+5 min Wolfgang Lubitz (MPI Muelheim/Ruhr, Prof. emeritus)

"Water oxidation in photosynthesis: An enzyme that changed the world"

25+5 min David Britt (UC Davis)

"EPR studies of solar fuel enzymes and catalysts"

16:00 - 15 min BREAK

## 16:15 - Frontiers: Neurophysics and Industrial Biophysics

15 min Overview by David Kleinfeld (UC San Diego)

25+5 min Michael Graige (Illumina)

"Developing technology to explore the genome"

## **17:00 - Personal Remembrances**

- 10 min Roger Isaacson (UC San Diego, emeritus)
- 10 min Charles and Marilyn Perrin (UC San Diego and Salk)
- 10 min Larry Squire (UC San Diego)
- 10 min Lu Sham (UC San Diego, Prof. emeritus)
- 20 min Rachel Nechushtai (Hebrew University) and a short video featuring a young George and his secret project for the Haganah

### **Dinner for speakers and guests**

This symposium was made possible by funding from the International Society of Photosynthesis Research, the Department of Physics at UC San Diego, and the office of the Dean of Physical Sciences at UC San Diego.



Schedule of 25 September 2018

Organization: James Allen, David Kleinfeld, Wolfgang Lubitz and Melvin Okamura

Assistant: Erin Gerlach