



The International Chemical Congress
of Pacific Basin Societies 2025
Honolulu, Hawaii - December 15-20, 2025
Pacificchem 2025

Symposium: *Challenges for Artificial Photosynthesis: Regulating Organic-Inorganic Functional Interfaces for Disruptive Solar Fuels Research*

Number of Oral Daytime Sessions:4 (I-IV)

Location:Hawaii Convention Center

Organizers: Ken Sakai (CSJ) Gary Brudvig (ACS) Licheng Sun (CCS) Marcella Bonchio (SCI)

The next generation of solar energy conversion schemes calls for a unifying vision, dissecting a multi-level chemical complexity by: (i) optimization of each “a-solo” components (photoadsorbers, multi-redox catalysts, electron/proton relays, semiconductors, conductive scaffolds); (ii) their sophisticated assemblies (photo-induced charge separation and transport, oxidative/reductive catalysis, photoprotection) and (iii) the orchestration of a mechanistic cascade for efficient solar-to-fuel energy storage. This symposium focuses on the organic-inorganic interfaces at the frontier of molecular and materials science enabling the “green shift” of Artificial Photosynthesis. Scientific sessions involve world recognized experts and emerging investigators covering the fields of photo-(electro)catalysis applied to water splitting and CO₂ reduction, supramolecular sciences, and photo-biology, key technologies and advanced characterization methods (nanosciences, electrochemistry, photochemistry, advanced spectroscopy and computational modelling).

Agenda at a Glance

Location:Hawaii Convention Center



Monday December 15th 2025 ----- (7:00 – 19:00 ----- Registration)

8:00 – 12:00		Morning Session (I)	
8.00 – 8.25	Ken Sakai – <i>Opening Chair Lecture 1 and Symposium Introduction</i>		
8.25 – 8.50	Invited1		
8.50 – 9.15	Invited2		
9.15 – 9.30	Oral1		
9.30 – 9.45	Oral2		
9.45 – 10.00	Oral3		
10.00 – 10.15	Oral4		
10.15 – 10.30	Oral5		
10.30 – 10.45	Oral6		
10.45 – 11.00	Oral7		
11.00 – 11.25	Invited3		
11.25 – 11.50	Invited4		
12.00 -13.00 <i>Lunch Break</i>			
13:00 – 17:00		Afternoon Session (II)	
13.00 – 13.25	<i>Chair-lecture 2 and Opening of the Afternoon Session</i>		
13.25 – 13.50	Invited5		
13.50 – 14.15	Invited6		
14.15 – 14.30	Oral7		
14.30 – 14.45	Oral8		
14.45 – 15.00	Oral9		
15.00 – 15.15	Oral10		
15.15 – 15.30	Oral11		
15.30 – 15.45	Oral12		
15.45 – 16.00	Oral13		
16.00 – 16.25	Invited7		
16.25 – 17.50	Invited8		
18:00 – 20:00	Pacificchem Opening Ceremony & Session		
20:00 – 22:00	Pacificchem Opening Reception		



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Tuesday December 16th 2025 ----- (7:00 – 17:00 ----- Registration)

8:00 – 12:00		Morning Session (III)	
8.00 – 8.25	Chair-lecture 3 and Opening of the 2 nd day		
8.25 – 8.50	Invited9		
8.50 – 9.15	Invited10		
9.15 – 9.30	Oral14		
9.30 – 9.45	Oral15		
9.45 – 10.00	Oral16		
10.00 – 10.15	Oral17		
10.15 – 10.30	Oral18		
10.30 – 10.45	Oral19		
10.45 – 11.00	Oral20		
11.00 – 11.25	Invited11		
11.25 – 12.00	Invited12 and <i>Closing Session</i>		
12.00 -13.00 <i>Lunch Break</i>			
13:00 – 17:00		Afternoon Session (IV)	
13.00 – 13.25	Chair-lecture 4 and Opening of the Afternoon session		
13.25 – 13.50	Invited13		
13.50 – 14.15	Invited14		
14.15 – 14.30	Oral21		
14.30 – 14.45	Oral22		
14.45 – 15.00	Oral23		
15.00 – 15.15	Oral24		
15.15 – 15.30	Oral25		
15.30 – 15.45	Oral26		
15.45 – 16.00	Oral27		
16.00 – 16.25	Invited15		
16.25 – 18.00	Invited16 ---- and <i>Closing Remarks</i> ----		
18.00 – 19.30	Symposium Aperitif-Dinner – Offered by Sponsors		
19:30 – 21:00	Pacifichem Poster Sessions		

4 Chair Lecture and Opening (25 min each) - 16 invited lectures (25min each) - **Orals 27** (15 min each)

1 Poster session

INVITED SPEAKERS LIST --

1. Francesca Toma - Helmholtz-Zentrum Hereon, Berlin
2. Smaranda Marinescu, University of Southern California, USA
- 3 Elisabeth Gibson, University of Newcastle, UK
- 4 Jenny Y. Yang, University of California, Irvine, USA
- 5 Aleksandra Vojvodic, University of Pennsylvania, USA
- 6 Inke Siewert, University of Goettingen, Germany
- 7 Jillian Dempsey, University of North Carolina at Chapel Hill, USA
- 8 Li-Zhu Wu, Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, China
- 9 Alexander Simonov, Monash University, Australia
- 10 Maurizio Prato – CIC biomagune, Spain,
- 11 Ally Aukauloo – Paris Saclay – France
- 12 Kazunari Domen – Tokyo Univ
- 13 Ryu Abe, Kyoto University, Japan
- 14 Julio Lloret, ICIQ (Institut Catala d'Investigacio Quimica), Spain
- 15 Marc Robert, Universite Paris Diderot, France
- 16 Akihiko Kudo, Tokyo University of Science, Japan