

1ST AUSTRALIAN CONFERENCE ON GREEN AND SUSTAINABLE CHEMISTRY & ENGINEERING'

2 -5 JULY 2023

SHANGRI-LA THE MARINA HOTEL, CAIRNS, QLD

WWW: GASC.AU



Conference Program @17/4/23

Sunday 2 July 2023

Registration opens: 4:00pm to 7:00pm

5:00 –
7:00 pm

Reception (with food & beverages)
Venue: The Backyard (Garden)

Monday 3 July 2023

Registration starts at 8:00 am

8:30 –
9:00 am

Opening Session
Chair:

8:30 – 8:50 Welcome Address
QLD Chief Scientist: Prof. Bronwyn Harch

	8:50 – 9:00 Welcome Address Representatives from RACI and IChemE		
9:00 – 9:30 am	Plenary 1: John Warner Title: Chair: Lianzhou Wang		
9:30 – 10:00 am	Plenary 2: Maria Forsyth Title: Chair: Huanting Wang		
10:00 – 10:30 am	Plenary 3 Edward Buckingham (Monash Business School) If Green and Sustainable Chemistry and Engineering is to innovate and 'save the planet', what would it entail? Chair: Tony Patti		
10:30 – 10:45 am	Morning Tea (Poster Preparation)		
	Parallel Session 1 (Energy) Chair:	Parallel Session 2 (clean water) Chair:	Parallel Session 3 Circular Chemistry (Mineral) Chair:
10:45 – 11:05 am	Yun Liu (ANU)	Xiwang Zhang (UQ)	Anh Nguyen (UQ)
11:05 – 11:25 am	Ji Liang (Tianjin University)	David Bergman South East Water	Longbin Huang (to be confirmed) UQ

11:25 – 11:50 am			Zuliang Chen (to be confirmed) Fujian Normal University
11:50 – 12:10 am			Hong Peng ✓ UQ
12:10 – 12:30 pm	Poster Flash Talks (2 min each x 10)	Poster Flash Talks (2 min each x 10)	Poster Flash Talks (2 min each x 10)
12:30 – 1:30 pm	Lunch Break (Poster Session)		
1:30 – 2:30 pm	<p align="center">Panel Discussion</p> <p align="center"><i>Clean and affordable energy: what will the Australian energy mix look like in 2050?</i></p> <p align="center">Co-Chairs: Karen Wilson & Elsa Antunes</p>		
	<p align="center">Parallel Session 1 Biomass & Circular Chemistry (Chair: Karen Wilson & Elsa Antunes)</p>	<p align="center">Parallel Session 2 H2 and CO2 utilization (Chair: Hongqi Song & Yijiao Jiang)</p>	<p align="center">Parallel Session 3 Unconventional Energy Generation (Chair:</p> <p align="center">0</p>
2:35 – 2:55 pm	Bernadette McCabe (USQ)	Debra Bernhardt (UQ)	Amanda Ellis (UMelb.)
2:55 – 3:15	Carol Lin (City U HongKong)	Zongping Shao (Curtin University)	Dewei Chu (UNSW)
3:15 – 3:25			Zhigang Chen (USQ)
3:25 – 3:35			Zhenxiang Cheng (Wollogang)
3:35 – 3:45 pm	Afternoon tea		

3:45 – 4:45 pm	<p style="text-align: center;">Panel Discussion</p> <p style="text-align: center;">How to find your pathway towards industry-academia co-designed impactful research?</p> <p style="text-align: center;">Panellists: Bronwyn Harch, John Warner; Paul Anastas; Jagadish; Maria Forsyth; Samantha Read, Craig Lovelady (BioWorks)</p>	
5:00 – 6:00 pm	<p style="text-align: center;">Business Plan Workshop</p> <p style="text-align: center;">Edward Buckingham</p>	<p style="text-align: center;">Co-Design Workshop</p> <p style="text-align: center;">Decarbonization Pathways for Australian Mining Industry</p>
6:00 – 9:00 pm	<p style="text-align: center;">BBQ dinner</p> <p style="text-align: center;">Venue: The Backyard (Garden)</p>	

Tuesday 4 July 2023		
8:30 – 9:00 am	<p style="text-align: center;">Plenary Session</p> <p style="text-align: center;">Plenary 4: Liming Dai</p> <p style="text-align: center;">Title: Chair:</p>	
9:00 – 9:30 am	<p style="text-align: center;">Plenary 5: Shaobin Wang</p> <p style="text-align: center;">Title: Chair:</p>	
9:30 – 10:00 am	<p style="text-align: center;">Plenary 6: Zhiping Xu</p> <p style="text-align: center;">Chair:</p>	
10:00 – 10:15 am	<p style="color: #0070c0;">Morning Tea</p>	

	Parallel Session 1	Parallel Session 2	Parallel Session 3
	catalysis	Decarbonization	Sustainable Agriculture
10:15 – 10:35 am	Christian Doonan (UAdelaide)	Zhonghua Zhu (UQ)	Michael O’Shea (UQ)
10:35 – 10:55 am	Jingsan Xu (QUT)	Dawei Wang (UNSW)	Diane Ouwerkerk
10:55 – 11:15 am	Haoran Jason Xu (UNSW)	Yansong Shen UNSW	Nasim Amaralian (UQ)
11:15 – 11:30 am	Mu Xiao (UQ)		
11:30 - 11:45 am	Miaoqiang Lv (UQ)		
11: 45 – 12:25 pm	ECR talks (10 min x 4)	ECR talks (10 min x 4)	ECR talks (10 min x 4)
12:25 – 1:00 pm	Lunch Break		
1:00 – 3:00 pm	Co-Design Workshop Sustainable Agriculture and the Roles of Green Chemistry Co-Chairs: Mary Fletcher, Peng Li, Natasha Hungerford		
3:00 – 3:15 pm	Afternoon Tea		
	Parallel Session 1 Renewable energy	Parallel Session 2 Circular chemistry (organics/polymer)	Parallel Session 3 Benign by design
			Parallel Session 4 (School Teachers Event) Green chemistry education

3:15 – 2:35 pm	Dan Li (UMelb.)	Peter Halley (UQ)	Kei Saito (Kyoto Uni.)	
2:35 – 2:55 pm	Feng Wang (Swinburne)	Wei Zhang (Noted; to be confirmed)	Pingan Song (USQ)	
2:55 – 4:15 pm			Caiyun Wang	
4:35 – 4:45 pm	Panel Discussion: How shall we effectively incorporate Green Chemistry & Engineering into our education programs?		Business Plan Workshop (Part II)	
4:45 – 5:00 pm (flexible)	Green Chemistry & Engineering Public Lecture Chair: Colin Raston Welcome address by QLD Chief Scientist			
5:00 – 6:00	Public Lecture Paul Anastas			
6:00 – 9:00 pm	Conference Dinner Jagadish v (may change)			

Wednesday 5 July 2023

8:00 – 8:30 am	Plenary Session George Britovsek (Imperial College)
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8:30 – 9:00 am	Plenary Session Plenary 7: Rachel Caruso (RMIT) Title: Chair:		
9:30 – 10:00 am	Plenary 8: Nam-Trung Nguyen (Griffith U) Chair:		
10:00 – 10:15 am	Morning Tea		
	Parallel Session 1 Health & Environment	Parallel Session 2 Benign by Design	Parallel Session 3 Environmental Monitoring & Remediation
10:15 – 10:35 am		Volker Hessel	Muhammad Shiddiky
10:35 – 10:55 am	Tushar	Mats Anderson (Flinders)	
10:55 – 11:15 am	Valeska Ting	Susan Northfield	James Chapman
11:15 – 11:35 am			
11:35 am – 11:55	ECR talk x2	ECR talk x2	ECR talk x2
12:00 – 2:00 pm	Solution for Sustainable Hospitals Co-Design Workshop Co-Chairs: Leonie Barner, Kerstin Wyssusek, Judith Singleton lunch served		
2:00 – 2:30 pm	Plenary Session Plenary 12:		

	Xiaojing Hao Title: Chair:
2:30 – 2:35 pm	Awards and Closing Remarks

Tours:

05/07/2023 2:30 – 5:30 ICU Ideas Lab., James Cook University, Cairns Campus

Other industry sites

Industry-led research discussions:

Bioenergy

Shahana McKenzie CEO **Bioenergy** Australia

Green cosmetics

Robert McPherson

Sustainable agribusiness

<https://www.greenbiz.com/anastasia-behr>

Anastasia Behr

Sustainable medical practice

A/Prof. Kerstin Wyssusek

Other suggested speakers (keynote, invited, industry)

Liz Rowsell Johnson Matthey

Sally Brooker

<https://www.otago.ac.nz/chemistry/people/otago666540.html>

Johanna Johnson from Logan City council

Julia Creasey, Croda Group Sustainability Director

Dr Yvonne Mah from BASF who is a polymer specialist and has a strong interest in green chemistry.

Dr Debjani Ghosh - PZ Cussons - looking at greening their supply chains