

## Ways to hold Supergreen 2022

Supergreen 2022 will be held in a hybrid mode. All submitted oral and poster presentations will be shown in an asynchronous platform during the period from 10/24 to 10/27. The pre-recorded video and poster will be collected in this platform for discussion asynchronously. For the plenary and invited speeches from Taiwan, an on-site meeting at Gis Taipei Tech convention center will be held on 10/28, and line streamed using Cisco Webex. In addition, an on-site poster presentation will also be held at Gis Taipei Tech convention center on 10/28. The lectures given by the overseas plenary and invited speakers will turn fully online, and an online meeting on 10/29 will be held using Cisco Webex. Please see the following table for summary of Supergreen 2022 presentation way.

Type of presenting author	Presentation way	Presentation time
Plenary and invited speaker from Taiwan	On-site and live streamed	10/28
Overseas plenary and invited speaker	Online	10/29
Submitted oral presentation	Asynchronous webinar	10/24-10/27
Submitted poster presentation	Asynchronous webinar	10/24-10/27
	On-site presentation	10/28

## Supergreen 2022 Program

2022/10/24-2022/10/27
<p style="text-align: center;"><b><u>Asynchronous Webinar</u></b> <b>For all submitted oral and poster presentations</b></p>

<b>2022/10/28</b> <b><u>On-site meeting and live streamed using Cisco Webex</u></b> <b>For plenary and invited speeches from Taiwan</b> <b>Room: The Lecture Hall</b>	
8:30-14:30	Registration
9:15-9:30	Welcome Ceremony
<b>Session 1: Applications of SCF in Taiwan</b> Chair: Prof. Yan-Ping Chen (National Taiwan University)	
9:30-10:00	<b>PL-1: Dr. Dar-Jen Hsieh</b> (ACRO Biomedical Co.) Supercritical CO <sub>2</sub> , the ultimate solution for tissue engineering and regenerative medicine
10:00-10:25	<b>IL-1-1: Prof. Shen-Kung Liao</b> (Feng Chia University) Industrial application of supercritical dyeing in Taiwan
10:25-10:50	<b>IL-1-2: Dr. Ming-Tsai Liang</b> (JOPE Technology Co.) Industrial application of supercritical fluid simulated moving bed on the separation of eicosapentaenoic acid ethyl ester from fish oil
10:50-11:05	Short break
<b>Session 2: Applications of SCF in Taiwan</b> Chair: Prof. Ming-Jer Lee (National Taiwan University of Science and Technology)	
11:05-11:30	<b>IL-2-1: Prof. Ping-Shan Lai</b> (National Chung Hsing University) Pharmaceutical applications of supercritical fluid extraction with micro/nanoparticle formulations
11:30-11:55	<b>IL-2-2: Prof. Chie-Shaan Su</b> (National Taipei University of Technology) Particle design of anticancer drug using supercritical fluid technology
11:55-12:20	<b>IL-2-3: Prof. Shu-Kai Yeh</b> (National Taiwan University of Science and Technology) Recent advances in supercritical fluid assisted polymer processing
12:20-13:30	Lunch (The Lecture Hall)
13:30-14:30	On-site poster presentation (Room 201)
<b>TSCFA annual member meeting</b> <b>(For TSCFA member only)</b>	
14:30-17:30	TSCFA annual member meeting
18:00-20:00	Banquet

2022/10/29

**Online meeting using Cisco Webex**

**For overseas plenary and invited speeches**

**Session 3: Reactions, material design and nanotechnology**

Chair: Prof. Jui-Yang Feng (National University of Kaohsiung)

9:00-9:30	<b>PL-2: Prof. Tadafumi Adschiri</b> (Tohoku University) Chemical reactions in supercritical water and their applications
9:30-9:55	<b>IL-3-1: Prof. Jaehoon Kim</b> (Sungkyunkwan University) The role of sub- and supercritical solvent in the biomass conversion
9:55-10:20	<b>IL-3-2: Prof. Qun Xu</b> (Zhengzhou University) Supercritical CO <sub>2</sub> -induced phase engineering for room-temperature ferromagnetism materials
10:20-10:45	<b>IL-3-3: Prof. Masaru Watanabe</b> (Tohoku University) Recycling of plastics and leaching of LIB cathode elements by hydrothermal technology
10:45-11:00	Short break
<b>Session 4: Processes intensification, CO<sub>2</sub> utilization and industrial applications</b>	
Chair: Prof. Hsien-Tsung Wu (Ming Chi University of Technology)	
11:00-11:30	<b>PL-3: Prof. Youn-Woo Lee</b> (Seoul National University) Super critical thinking for sustainable society
11:30-11:55	<b>IL-4-1: Prof. Huanda Zheng</b> (Dalian Polytechnic University) Research progress of supercritical CO <sub>2</sub> waterless dyeing and finishing
11:55-12:20	<b>IL-4-2: Prof. Hirohisa Uchida</b> (Kanazawa University) TBD
12:20-13:30	Lunch time
<b>Session 5: Physicochemical properties and thermodynamics</b>	
Chair: Prof. Chieh-Ming Hsieh (National Central University)	
13:30-14:00	<b>PL-4: Prof. Buxing Han</b> (Chinese Academy of Sciences) Properties of green solvents and their applications in green chemistry
14:00-14:25	<b>IL-5-1: Prof. You Han</b> (Tianjin University) ReaxFF force field development and application in supercritical water reaction
14:25-14:50	<b>IL-5-2: Prof. Tae Jun Yoon</b> (Chungnam National University) Zero-liquid discharge supercritical water desalination: from electrons to molecules to processes.
14:50-15:15	<b>IL-5-3: Prof. Cyril Aymonier</b> Physico-chemistry in supercritical fluids for a circular economy
15:15-15:30	Short break

**Session 6: Natural products, pharmaceutical and biomedical applications**

Chair: Prof. Ardila Hayu Tiwikrama (National Taipei University of Technology)

15:30-16:00	<b>PL-5: Prof. Motonobu Goto</b> (Nagoya University) Supercritical fluid technology for phytochemicals
16:00-16:25	<b>IL-6-1: Prof. Željko Knez</b> (University of Maribor) Use of high pressure technologies for design of product for pharma Industry
16:25-16:50	<b>IL-6-2: Prof. Yusuke Shimoyama</b> (Tokyo Institute of Technology) Pharmaceutical crystal engineering in supercritical CO <sub>2</sub>
16:50-17:15	<b>IL-6-3: Prof. Giovanna Della Porta</b> (University of Salerno) TBD
17:15-17:30	Closing and award ceremony