

2021 Spring

TIGP Sustainable Chemical Science and Technology Program			
Introduction to Sustainable Chemical Science and Technology			
		Period:	2021/Feb. - 2021/June
		Classroom:	B105, IoC, AS
		Time:	AM9:10-12:00
Goals:	1. Know the backgrounds and chemistry of sustainability-related issues. 2. Learn the spirit of green chemistry and the challenges/opportunities in the real world. 3. Get exposed to important research directions.		
Theme			
<b>4</b>	<b>Energy Related Technologies</b>		
	4.1 Photoenergy Related Science and Technologies	Chen, Kuei-Hsien	2021/2/24
	4.2 Batteries, Fuel Cells/H <sub>2</sub> Generation	Yen, Hung-Ju/ Chiang, Ming-Hsi	2021/3/3
	4.3 Energy Conversion and Energy Saving Technology and Materials (Photochromic, Electrochromic, Thermo-chromic)	Yen, Hung-Ju	2021/3/10
<b>5</b>	<b>Greener Materials</b>		
	5.1 Chemicals from Different Feedstocks		
	5.1.2 CO <sub>2</sub> and Natural Gas	Yu, Steve Sheng-Fa	2021/3/17
	5.1.2 Biomass	Chung, Cedric Po-Wen	2021/3/24
	5.2 Degradable Polymers	Yu, Hsiao-hua	2021/3/31
	5.3 From Waste to Wealth (CO <sub>2</sub> ; E-waste; food waste; plastic waste...)	Yu, Steve Sheng-Fa	2021/4/7
	<b>*** Mid-Term Exam Week***</b>	<b>No Class</b>	<b>2021/4/14</b>
	5.4 Bio-Synthesis	Wang, Cheng-Chung	2021/4/21
	5.5 Green Nano (I)	Ong, Tiow-Gan	2021/4/28
	<b>Time Conflict</b>	<b>No Class</b>	<b>2021/5/5</b>
<b>6</b>	<b>Sustainable Health - Tackle Disease by Chemistry</b>		
	6.1 Disease Detection and Diagnosis	Chen, Yu-Ju	2021/5/12
	6.2 Peptide and probe chemistry in Diseases	Huang, Joseph Jen-Tse	2021/5/19
	6.3 Drug Development	Li, Wen-Shan	2021/5/26
	6.4 Emergent nanomedicine & diagnostic platforms	Tu, Hsiung-Lin	2021/6/2
	5.5 Green Nano (II)	Kuo, Chun-Hong	2021/6/9
<b>7</b>	<b>Information Sharing</b>	Chao, Ito	2021/6/16
	<b>*** Semester Report Deadline ***</b>	<b>No Class</b>	<b>2021/6/23</b>