

## SUSTech-HKU Joint Research Symposium 2018

SUSTech, Shenzhen

21 November 2018 (Wednesday)

### SCHEDULE

Time	Details	Location
9:50	<b>HKU delegation arrives at SUSTech</b>	<b>110 Library</b>
10:00-10:20	<b>Opening Ceremony for the Symposium</b>  Opening addresses by Prof. Andy HOR, Vice-President and Pro-Vice-Chancellor (Research), HKU & Prof. Jinguang TENG, Vice President and Dean of Graduate School, SUSTech	
10:20-10:50	<b>Keynote Lecture</b>  <b>Global Arena for the Development of Engineering Leadership</b>  Prof. Yiming RONG Chair Professor and Department Head, Dept. of Mechanical and Energy Engineering, SUSTech & Prof. Guoquan HUANG Chair Professor and Department Head, Dept. of Industrial and Manufacturing Systems Engineering, HKU	<b>110 Library</b>
10:50-11:10	<b>Overview of Research Areas of HKU and SUSTech, and the HKU-SUSTech Joint Education Program for PhD</b>  Prof. Dong-Yan JIN, Associate Dean, Graduate School, HKU & Prof. Shuanghua YANG, Associate Dean, Graduate School, SUSTech	<b>110 Library</b>
11:10-11:20	<b>Group Photo Session</b>	
11:20-11:50	<b>Tea Break &amp; Poster Session (13 posters)</b>	<b>Atrium, Library</b>
11:50-12:50	<b>Parallel Sessions for HKU and SUSTech academics, and HKU-SUSTech students</b>	<b>110 &amp;111 Library</b>

	<b>Session themes</b> Parallel Session 1: Environment, Chemistry & Biology Parallel Session 2: Advancing emerging research and innovations	
12:45-13:50	<b>Lunch Break</b>	<b>Faculty Cafeteria</b>
14:00-15:30	Parallel Sessions for HKU and SUSTech academics, and HKU-SUSTech students  <b>Session themes</b> Parallel Session 1: Environment, Chemistry & Biology Parallel Session 2: Advancing emerging research and innovations	<b>110 &amp; 111 Library</b>
15:30-16:00	<b>Tea Break for Discussion among Participants &amp; Poster Session(13 posters)</b>	<b>Atrium, Library</b>
16:00-17:30	<b>Parallel Sessions for HKU and SUSTech academics, and HKU-SUSTech students</b>	<b>110 &amp; 111 Library</b>
17:45-18:30	<b>Campus tour and Lab Visit</b>	
18:30-20:00	<b>Dinner</b> ( By invitation only )	<b>Guest House</b>

## Session 1: Environment, Chemistry & Biology

Chair: Prof. Qiongyu GUO &amp; Prof. Yucong XIE Room: 111 Library

11:50	SUSTech	Prof. Tzung-May FU 傅宗玫	Environmental Science & Engineering	Volatile Organic Compound Emissions in China: Space-Based Constraints on Emissions and Impacts on Regional Air Quality
12:05	HKU	Dr C.H. LIU	Mechanical Engineering	Large-Eddy Simulation of Pollutant Transport in Urban Environment
12:20	SUSTech	Prof. Yanqing TIAN 田颜清	Materials Science and Engineering	Highly selective fluorescent potassium ion sensors
12:35	HKU	Dr Xiaoyu LI	Chemistry	DNA-encoded chemical library and its applications in drug discovery
<b>Lunch</b>				
14:00	SUSTech	Prof. Qiongyu GUO 郭琼玉	Biomedical Engineering	Developing biomimetic collagen-based matrix using cyclodextrin for corneal repair
14:15	HKU	Dr Cheng-han YU	Biomedical Sciences	Matrix-force dependent integrin signaling at the podosome
14:30	SUSTech	Prof. Liang YANG 杨亮	Medicine	Chemical Biology Control of Biofilm Infections
14:45	HKU	Dr Linwei TIAN	Public Health	Environment causes of two cancers: lung cancer in eastern Yunnan and esophageal cancer in the Taihang Mountains
15:00	HKU	Dr Yuanliang ZHAI	Biological Sciences	From CryoEM structures to molecular mechanisms in DNA replication
<b>Tea Break</b>				
16:00	SUSTech	Prof. Yucong XIE 谢宇聪	Biology	Novel molecular mechanisms of cytokinesis in <i>C. elegans</i>

16:15	SUSTech	<b>Prof. Feng RAO</b> 饶枫	Biology	Inositol Polyphosphates as Signaling Messengers: Mechanisms and Targeting
16:30	HKU	<b>Dr K.W. Y. YUEN</b>	Biological Sciences	Epigenetic regulation of Centromere function in Chromosome Segregation
16:45	HKU	<b>Dr Boon-Leong LIM</b>	Biological Sciences	Monitoring energy changes in living organisms
17:00	SUSTech	<b>Prof. Andrew HUTCHINS</b>	Biology	Transposable elements and epigenetic control
17:15	HKU	<b>Dr Jason WONG</b>	Biomedical Sciences	Uncovering mutational and DNA repair processes from cancer genomes

## Session 2: Advancing emerging research and innovations

Chair: Prof. Zhen ZHANG Room: 110 Library

11:50	HKU	Prof. Nancy W.Y. LAW	Education	Education as a design science: engineering e-learning and analytics systems to advance the science of learning
12:05	Student	Ms. Kejin ZHU 朱柯锦	Education	China's Power Strategy and Its Higher Education Internationalization in Southeast Asia
12:15	Student	Mr. Wei CEHN 陈伟	Materials Science and Engineering	molecular doped inorganic semiconductor for perovskite solar cells
12:25	HKU	Dr. Y. CHEN	Mechanical Engineering	Materials and Energy
<b>Lunch</b>				
14:00	SUTech	Prof. Hong WANG 汪宏	Materials Science and Engineering	Novel Dielectric Materials for Passive Integration and Energy Storage
14:15	Student	Mr. Chao SHEN 沈超	Mechanics and Aerospace Engineering	Acoustic Metasurface
14:25	SUTech	Prof. Weishu LIU 刘玮书	Materials Science and Engineering	Flexible thermoelectric materials, devices and its application.
14:40	SUTech	Prof. Zhubing HE 何祝兵	Materials Science and Engineering	Lead-free perovskite materials and devices
14:55	HKU	Prof. Maohai XIE	Physics	Epitaxial 2D crystalline films
15:10	Student	Mr. Yu ZHANG 张昱	Physics	molecular doped inorganic semiconductor for perovskite solar cells
15:20	HKU	Prof. Aleksandra B. DJURISIC	Physics	Halide perovskite materials and devices
<b>Tea Break</b>				

16:00	SUSTech	<b>Prof. Shuanghua YANG</b> 杨双华	Computer Science and Engineering	Non-intrusive measuring and remote monitoring for waste water management
16:15	Student	<b>Mr. Xiangtian XIAO</b> 肖翔天	Electrical and Electronic Engineering	Sky-blue Perovskite Light-emitting Diodes Based on CsPbBr <sub>3</sub> Quantum Dots
16:25	Student	<b>Mr. Xiaoyang LI</b> 李晓阳	Electrical and Electronic Engineering	Wirelessly Powered Over-the-Air Computation for High-Mobility Sensing
16:35	HKU	<b>Dr. Philip L.H. YU</b>	Statistics and Actuarial Science	AI/ML in Medicine, Business and Finance
16:50	Student	<b>Mr. Shuqing CHAI</b> 柴树清	Mathematics	Navier slip model of the moving contact line problem
17:00	HKU	<b>Dr. Guangyue HAN</b>	Mathematics	Information Theory and its applications
17:15	SUSTech	<b>Prof. Chaoyang SONG</b> 宋超阳	Mechanical and Energy Engineering	Lobster inspired soft robot for underwater manipulation and control
17:30	SUSTech	<b>Prof. Luke GIBSON</b>	Environmental Science & Engineering	Pitfalls in the Ivory Trade: Missing Hippo Teeth & Mismatched Trade Bans in China and Hong Kong

## Poster Session

Posters ( 11:20--11:50)		
Room: Atrium, Library		
Student Name	Cohort	Poster
Huan CHEN	2018	Structural Study of <i>Mycoplasmal pneumonia</i> Lipoate-Protein Ligase A
Peizhong CHEN	2017	The protein interactions of Shc1 changes with different sites phosphorylated
Juan CUI	2017	Large enhancement of electrical transport properties of SnS in the out-of-plane direction by n-type doping: a combined ARPES and DFT study
Daqiang GUO	2017	IoT-enabled smart manufacturing platform for fixed-position assembly islands
Shanfeng HUANG	2016	Online Scheduling for Multi-User Mobile Edge Computing

Xiaolong LI	2017	Hermite Polynomial Estimation for Signed Gerber-Shiu Function against General Levy Process
Lei LIU	2016	Integrated Metagenomics and Metatranscriptomics to Study Microbial dynamics in anammox treatment process
Pengyi LIU	2017	Zero-one-inflated proportion data analysis
Sihan LIU	2017	Blood-retinal barrier on a Chip
Meijing YANG	2017	An uncharacterised protein which interacts with mitochondria TA proteins in plant
Fei MENG	2017	Fundamental work cost for quantum cloning
Zifeng WANG	2016	Water as an urban heat sink: Blue infrastructure alleviates urban heat island effect in mega-city agglomeration
Yunxue XIA	2017	Heavy metals removal and plant-phosphorus recovery from sewage sludge by pyrolysis treatment with organic and inorganic chlorinating agents
<b>Posters ( 15:30--16:00)</b>		
<b>Room: Atrium, Library</b>		
<b>Student Name</b>	<b>Cohort</b>	<b>Poster</b>
Weier LIU	2017	Molecular recognitions by endo-functionalized molecular tubes
Rong MAO	2016	The variation of storage selection function in hillslope and its relation to time-variant storage and travel time distribution under nonstationary hydrologic condition
Guanding MEI	2018	Efficient light-emitting diodes based on perovskite quantum dots with formamidine-methylamine hybrid cations
Yifan SHI	2017	Fourier cosine method for finite time gerber-shiu function
Rui TANG	2017	Synthesis, characterisation and luminescence properties of copper(I) complexes bearing NHC ligand
Hao TIAN	2016	Intrinsic Role of Excess Electrons in Surface Reactions on Rutile TiO <sub>2</sub> (110): Using Water and Oxygen as Probes
Jian WANG	2016	
Pengchao WANG	2017	Using genetically expanded unnatural amino acids to probe signal transduction dynamics in Gram-negative bacteria
Xiaorui WANG	2017	Observation of self-focusing and refocusing of femtosecond laser propagated in ZnO crystal by two-photon luminescence
Zhengyu WANG	2017	Selective conversion of gaseous CO <sub>2</sub> by g-C <sub>3</sub> N <sub>4</sub> photocatalysts decorated with Pd-Ag bimetallic nanoparticles
Wei YE	2017	China's Education Aid to Africa: Motivations for the Changing Practice
Jiawei ZHANG	2017	Accumulation and translocation of heavy metals from rhizosphere soil to parts of <i>Lycium barbarum</i> grown on a traditional planting area
Zezhong ZHANG	2017	Enabling Vehicular Microwave Imaging: A Mirror Vehicle Approach