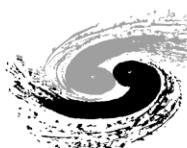


2018 MOLECULAR IMAGING INSTRUMENTATION CONFERENCE

PET/MRI & SPECT/MRI

GUANGDONG
April 15, 2018

HONG KONG
April 16-17, 2018



中國科學院高能物理研究所
Institute of High Energy Physics
Chinese Academy of Sciences



Organizers:

- University of Chicago (UChicago) Pritzker School of Medicine
- University of Chicago (UChicago) Center in Hong Kong

Co-organizers:

- The Institute of High Energy Physics (IHEP) of the Chinese Academy of Sciences (CAS)
- The University of Hong Kong (HKU)
- Shenzhen Institutes of Advanced Technology (SIAT) of the CAS
- City University of Hong Kong (CityU)

AGENDA

April 15 (Sunday)

Venue: China Spallation Neutron Source (CSNS) Institute of High Energy Physics (IHEP)/CAS, Dongguan

8:50	GATHER AT THE ROYAL GARDEN HOTEL (DALANG, DONGGUAN) LOBBY FOR BUS RIDE* TO CSNS
9:00	REGISTRATION
9:30	Welcome and Opening Remarks <ul style="list-style-type: none">➤ Long WEI, PhD, IHEP➤ Chin-Tu CHEN, PhD, UChicago
SESSION 1	CO-CHAIRS: Zhiming ZHANG, PhD, IHEP Chien-Min KAO, PhD, UChicago
9:35	“Overview of CSNS & School of Nuclear Science and Technology, University of Chinese Academy of Sciences” <ul style="list-style-type: none">➤ Long WEI, PhD, IHEP
10:05	“The New Progress of Molecular Imaging in IHEP” <ul style="list-style-type: none">➤ Zhe WANG, PhD, IHEP
10:30	“Detector Optimization for A Dedicated Brain PET Scanner” <ul style="list-style-type: none">➤ Qian YANG, PhD, SIAT
10:55	BREAK
SESSION 2	CO-CHAIRS: Yongfeng YANG, PhD, SIAT Ching-Han HSU, PhD, Tsing-Hua University (Hsinchu)
11:10	“PET/MRI and SPECT/MRI Multi-Modality Theranostic Probes” <ul style="list-style-type: none">➤ Chin-Tu CHEN, PhD, UChicago
11:35	“Accelerator Produced Iodine-124 and Applications in Molecular Imaging” <ul style="list-style-type: none">➤ Wenjiang YANG, PhD, IHEP
12:00	LUNCH & TOUR OF CSNS

**Bus Ride for Pre-registered Guests Only*

AGENDA

April 15 (Sunday)

Venue: CSNS/IHEP/CAS, Dongguan

SESSION 3 CO-CHAIRS: Ling-Jian MENG, PhD, Univ. of Illinois at Urbana/Champaign (UIUC)
Jyh-Cheng CHEN, PhD, Nat'l Yang-Ming University (NYMU)

14:00 "Research on Key Technology of MBI system"

- Xianchao HUANG, PhD, IHEP

14:30 "The Development of Electronic System in Nuclear Imaging Equipment"

- Xiaohui LI, PhD, IHEP

14:55 "Dual-Ended Readout Small Animal PET Detectors with 0.5 mm Pixelated LYSO Crystal Arrays and SiPMs"

- Zhonghua KUANG, PhD, SIAT

15:20 BREAK

SESSION 4 CO-CHAIRS: Cunfeng WEI, PhD, IHEP
Chen-Ying CHOU, PhD, NTU

15:35 "Performance of A Long Rectangle Semi-Monolithic LYSO Scintillator PET Detector"

- Xin FU, PhD, SIAT

16:00 "The Application of Sub-Surface Laser Engraving in Scintillation Detectors n"

- Haohui TANG, PhD, IHEP

16:25 PANEL DISCUSSION

- Long WEI, PhD, IHEP
- Chin-Tu CHEN, PhD, UChicago

17:00 DINNER

18:00 GATHER AT THE LOBBY FOR BUS RIDE* TO L'HOTEL ISLAND SOUTH (HONG KONG)

**Bus Ride for Pre-registered Guests Only*

AGENDA

April 16 (Monday)

Venue: UChicago Center in Hong Kong

8:45	GATHER AT THE L'HOTEL ISLAND SOUTH (HK) LOBBY FOR BUS RIDE* TO THE CENTER IN HONG KONG
9:30	WELCOME AND OPENING REMARKS - Auditorium <ul style="list-style-type: none">➤ Kitty CHONG, UChicago Center in Hong Kong➤ Chin-Tu CHEN, PhD, UChicago➤ Long WEI, PhD, UChicago
SESSION 5	CO-CHAIRS: Chien-Min KAO, PhD, UChicago Lin LI, PhD, IHEP
9:35	“Simultaneous PET/MR in Brain Cancer and Cardiac Applications” <ul style="list-style-type: none">➤ Georges EL FAKHRI, PhD, Harvard Medical School and Massachusetts General Hospital (MGH/Harvard)
10:05	“Dynamic PET/MR in neurological disease” <ul style="list-style-type: none">➤ Garrett HO, MD, Hong Kong Sanatorium & Hospital (HKS&H)
10:35	“MRI and PET Imaging of Brain Circuits” <ul style="list-style-type: none">➤ Ed X. WU, PhD, HKU
11:05	BREAK
SESSION 6	CO-CHAIRS: Garrett HO, MD, HKS&H Mythra Varun NEMALLAPUDI, PhD, Institute of Physics/Academia Sinica (IOP/AS)
11:30	“Developments of High Resolution MRI Compatible PET Scanners at SIAT” <ul style="list-style-type: none">➤ Yongfeng YANG, PhD, SIAT
12:00	“A PET Insert for Preclinical PET-MRI Using TOF-Capable Strip-Line Readout and MVT Sampling DAQ: Recent Advances” <ul style="list-style-type: none">➤ Chien-Min KAO, PhD, UChicago
12:30	LUNCH - Function Room

AGENDA

April 16 (Monday)

Venue: UChicago Center in Hong Kong

SESSION 7 CO-CHAIRS: Charles CHANG, PhD, HKU
Zhanli HU, PhD, SIAT

13:30 “Development of the MRC-SPECT-C: An Ultrahigh Performance MR-Compatible SPECT System for Clinical Cardiovascular Imaging”
➤ Ling-Jian MENG, PhD, UIUC

14:00 “Advances in Image Reconstruction for PET/MR Imaging”
➤ Cheng-Ying CHOU, PhD, Nat’l Taiwan University (NTU)

14:30 “Detector Development at Academia Sinica for TOF-PET Applications”
➤ Mythra Varun NEMALLAPUDI, PhD, IOP/AS

15:00 BREAK

SESSION 8 CO-CHAIRS: ED X. WU, PhD, HKU
Pek Lan KHONG, MD, HKU

15:30 “Reduction of Motion-Related Artifacts in MRI”
➤ Charles CHANG, PhD, HKU

16:00 “Performance Evaluation of Preclinical PET/MRI NanoScan with NEMA IQ-Phantom and Self-Designed Phantoms”
➤ Jyh-Cheng CHEN, PhD, NYMU

16:30 Panel Discussion
➤ Long WEI, PhD, IHEP
➤ Chin-Tu CHEN, PhD, UChicago

17:30 TOUR OF UCHICAGO CENTER

18:00 GROUP DINNER
Golden Lilies Banquet - Shop 102, the Arcade, 100 Cyberport Road

19:30 GATHER AT GOLDEN LILIES BANQUET ENTRANCE FOR BUS RIDE* TO THE L'HOTEL ISLAND SOUTH (HK)

**Bus Ride for Pre-registered Guests Only*

AGENDA

April 17 (Tuesday)

Venue: UChicago Center in Hong Kong

8:15 **GATHER AT THE L'HOTEL ISLAND SOUTH (HK) LOBBY FOR BUS RIDE* TO THE CENTER IN HONG KONG**

SESSION 9 CONFERENCE PLENARY SESSION – Auditorium

Honorary Keynote Speaker: Way KUO, PhD

President, City University of Hong Kong (CityU)

9:00 **Introduction**

➤ Chin-Tu CHEN, PhD, UChicago

9:02 **“Data Analysis and Accountability”**

➤ Way KUO, PhD, CityU

9:40 **GROUP PHOTO**

9:45 **BREAK**

SESSION 10 SPECIAL MINI-WORKSHOP ON “MOLECULAR IMAGING AND ONE HEALTH”

CO-CHAIRS: Michael YANG, PhD, CityU

Chin-Tu CHEN, PhD, UChicago

10:00 **Welcome and Opening Remarks**

➤ Michael YANG, PhD, CityU

➤ Chin-Tu CHEN, PhD, UChicago

10:05 **“Targeting Cancer Stem Cells by Hyperthermia Using Magnetic Nanoparticles”**

➤ Michael YANG, PhD, CityU

10:25 **“Development of Theranostic Agents for Cancer Imaging and Treatment”**

➤ Gigi LO, PhD, CityU

10:45 **“Imaging and One Health”**

➤ Chin-Tu CHEN, PhD, UChicago

AGENDA

April 17 (Tuesday)

Venue: UChicago Center in Hong Kong

- 11:05 "Developing Fluorescent Probes for Biological Applications"**
➤ Hongyan SUN, PhD, CityU
- 11:25 "Upconversion Nanoparticles for Biological Imaging and Therapy"**
➤ Wang FENG, PhD, CityU
- 11:45 "Design Considerations for Developing PET Systems in Veterinary Imaging"**
➤ Chien-Min KAO, PhD, UChicago
- 12:05 LUNCH- Function Room**
- 12:45 "Neuronal Imaging: From Circuits to Behavior"**
➤ Geoff LAU, PhD, CityU
- 13:05 "MR Imaging of Molecules in Cancer and Regenerative Medicine"**
➤ Kannie CHAN, PhD, CityU
- 13:25 "Of Mice and Men – An Imaging Perspective"**
➤ Georges EL FAKHRI, PhD, MGH/Harvard
- 13:45 Panel Discussion**
Co-Moderators: Michael YANG, PhD, CityU
Chin-Tu CHEN, PhD, UChicago
Panelists: ALL Speakers
Pek Lan KHONG, MD, HKU
Ed X. WU, PhD, HKU
Ling-Jian MENG, PhD, UIUC
- 14:30 CLOSING REMARKS**
➤ Michael YANG, PhD, CityU
➤ Long WEI, PhD, IHEP
➤ Chin-Tu CHEN, PhD, UChicago

***We thank the following corporate participants
for their generous contributions:***

Hangzhou GaoNeng Medical Equipment Co., Ltd.

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THE UNIVERSITY OF
CHICAGO

Center in
Hong Kong

Level 6, Cyberport 2, 100 Cyberport Road Hong Kong

www.uchicago.hk
hk@uchicago.edu
852-2533-9570