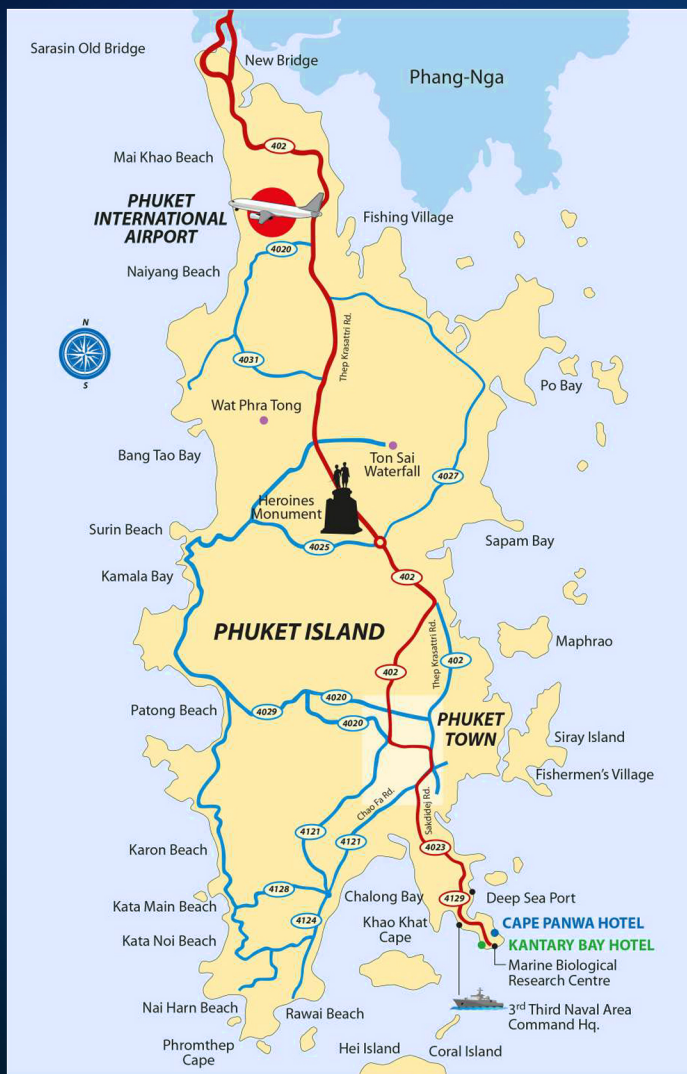## From Phuket International Airport to Cape Panwa Hotel

Invited Speakers

Mu-Ming POO
Institute of Neuroscience, Chinese Academy of Science, China

Wieslaw L. NOWINSKI
Sano - Centre for Computational Personalised Medicine, Cracow, Poland (formerly A*STAR/NUS, Singapore)

Ann-Shyn CHIANG
National Tsing Hua University, Taiwan

Manaschai KUNASETH
NSTDA Supercomputer Center (ThaiSC), NSTDA, Thailand

Host by

Synchrotron Light Research Institute (Public Organization)
Postal address : P.O. Box 93, Muang, Nakhon Ratchasima 30000, THAILAND
Tel.: 66 44 217 040 Email: catleya@slri.or.th

SYNAPSE

MAPPING THE NEURONAL NETWORK OF THE ENTIRE HUMAN BRAIN

MICROSCOPIC MAPPING OF THE ENTIRE HUMAN BRAIN 2022 GENERAL MEETING OF THE SYNAPSE ASIA-PACIFIC ENTERPRISE

November 30~December 2, 2022
Cape Panwa Hotel, Phuket, Thailand

THAI SYNCHROTRON NATIONAL LAB

PROGRAM

DAY 1
SYNAPSE General Assembly Meeting

November 30, 2022 (Wednesday)

Time	Event
09:00 – 09:30	Welcome by the Chair of the Organizing Committee
09:30 – 09:50	MOU signing ceremony with SLRI (Tetsuya ISHIKAWA/ Saroj RUJIRAWAT)
09:50 – 10:30	Honorary speech Single-cell transcriptome and connectome of the brain - Mu-Ming POO (Institute of Neuroscience, Chinese Academic of Sciences)
10:30 – 10:50	Tea break and group photo taking
10:50 – 11:25	Honorary speech Connectome mapping – from fruit fly to human - Ann-Shyn CHIANG (NTHU)
11:25 – 12:00	Honorary speech The SYNAPSE human sub-cellular brain atlas: toward its design - Wieslaw L. NOWINSKI (SANO)
12:00 – 13:00	Break for lunch
13:00 – 13:30	The Roots of Modern X-ray Optics: Enrico Fermi's Thesis 100 Years Ago - Giorgio MARGARITONDO (EPFL)
13:30 – 13:50	Radionuclide production for theranostics - Anton STAMPFL (ANSTO)
13:50 – 14:10	MAXWELL and more - Yoshiki KOHMURA (RIKEN/SPring-8)
14:10 – 14:30	X-ray tomography beamline at the new 3 GeV synchrotron in Thailand - Catleya ROJVIRIYA (SLRI)
14:30 – 15:00	Tea break
15:00 – 15:20	BEATS, the BEAmline for Tomography at SESAME- Gianluca IORI (SESAME)
15:20 – 15:40	AXON update - Yeu-Kuang HWU (Academia Sinica)
15:40 – 16:00	SSFR brain imaging beamline update – Jun HU (SINAP)
16:00 – 16:15	Vibrational Spectromicroscopy - Chia-Liang Cheng (Donghua U & NSTC)
16:15 – 16:30	Closing
16:45 – 17:15	Leave for the pier
17:30 – 19:30	Dinner Banquet / Social

DAY 2
International Workshop on High Performance Computing on Brain Imaging

December 1, 2022 (Thursday)

Time	Event
09:00 – 09:30	Honorary speech LANTA: Thailand's National-Scale HPC Infrastructure - Manaschai KUNASETH (NSTDA)
09:30 – 09:50	Computational challenges to construct Drosophila connectome -Ting-Kuo LEE (NTHU)
09:50 – 10:05	Data management capabilities in NSRRC/NCHC (Taiwan)
10:05 – 10:20	Distributed Collaboration Infrastructure in ASGC (Taiwan)
10:20 – 10:35	Data management capabilities of RIKEN/SPring-8 Center (Japan)
10:35 – 10:55	Tea break
10:55 – 11:10	X-ray imaging studies on soft materials at PLS-II - Byung Mook WEON (Sungkyunkwan University)
11:10 – 11:25	Data management capabilities of NSCC (Singapore) (Shoba RANGANATHAN)
11:25 – 11:45	Data acquisition and first stage processing - Yeu-Kuang HWU (AS)
11:45 – 12:00	Reverse Engineer the Fly Brain - Yu-Tai CHING (NYCU)
12:00 – 13:30	Break for lunch
13:30 – 13:45	Stitching Large Brain Images by Monte-Carlo Method - Chih-Ting SHIH (THU)
13:45 – 14:00	Application of AI on spectroimaging - Cyril PETIBOIS (AS)
14:00 – 14:15	Optical Imaging of large samples - Peilin CHEN (AS)
14:15 – 14:30	HPC and AI for Building the Brain Connectivity Map – Shoba RANGANATHAN (NSCC)
14:30 – 14:45	Temporal Focusing-Based Multiphoton Imaging with Deep Inpainting and Prediction - Shean-Jen Chen (NYCU)
14:45 – 15:10	Tea break
15:10 – 15:30	Image processing representative sharing (Ting-Kuo LEE)
15:50 – 16:10	Data pipeline and throughput representative sharing (Y. HWU)
16:10 – 16:30	Data compression, storage and security representative sharing
16:30 – 17:00	Summary; Moving Forward; Next Meeting (Year/Country); Closing
17:30 – 19:30	Dinner / Social

DAY 3
SYNAPSE Executive Board Meeting

December 2, 2022 (Friday)

Time	Event
09:00-12:00	SYNAPSE Executive Board Meeting Giorgio Margaritondo (Chairman) Tetsuya Ishikawa, Yoshiki Kohmura, Kei Sawada (RIKEN/SPring-8 Center), Yeu-Kuang Hwu, Cyril Petibois (Academia Sinica), Chia-Liang Cheng (National Dong Hua U), Chian Ming Low , Eng Soon Tok, Alvin Teo (NUS/SSLS), Jung Ho Je, Byung Mook Weon, Jae-Hong Lim (POSTECH-SKKU), Zhen-Tang Zhao, Jun Hu, Chun-Hai Fan (SSRF/SINAP), Anton Stampfl (ANTSO), Saroj Rujirawat, Supagorn Rugmai, Catleya Rojviriya (SLRI), Andrea Lausi, Gianluca Iori (SESAME)
12:00	Adjourn

Cape Panwa Hotel Location Map