PROGRAM

The 40th International Conference of the Microscopy Society of Thailand (MST40)

April 3rd - 5th, 2023 Long Beach Garden Hotel & Spa, Pattaya, Chonburi

Time	Room SaiManee	Room Rachawadee 1		
	Mondoy April 21	2023		
Monday, April 3 rd , 2023				
08.30 - 09.00	Registration, Submission of Art Photo Contest, Poster/Exhibition Setup			
09.00 - 09.30	Opening Ceremony & Sponsorship Recognition [Roo	-		
	Welcome address by Assoc.Prof. Dr. Wisuit Pradidarcheep			
	(President of the Microscopy Society of Thailand)			
	Report address by Dr. Ruttachuk Rungsiwiwat	- Crischler des the transfer (
	(Department of Anatomy, Faculty of Medicine, Srinakharinwirot University)			
	Opening address by Emeritus Prof. Dr. Pansiri Phansuwan			
	(Vice President for Academic Affairs, Srinakharinwirot University)			
09.30 - 09.40	Honorary Membership Award			
09.40 - 10.25	Session Chair: George W. Yip, Wisuit Pradidarcheep			
	Plenary Lecture (PL-01) [Room: SaiManee]			
	"Sectional versus dissectional anatomy: worlds apart?"			
	Wouter H. Lamers			
	Maastricht University and Academic Medical Cen	iter, The Netherlands		
10.25 - 10.30	Group Photo			
10.30 - 10.45	Coffee Break			
10.45 - 11.15	Chair: Nisaudah Radenahmad, Vichununt Kerdput	Chair: Nattaphol Chomsaeng, Chanchana		
	Invited Lecture (IB-01)	Thanachayanont		
	"Host Pathogen Interaction: Structural Studies	Invited Lecture (IP-01)		
	of a Molecular Syringe"	"Effects of Thermal Vibration Factors in Core-Loss		
	Michael Kolbe	Fine Structure"		
	Department for Structural Infection Biology,	Mitsutaka Haruta		
	Centre for Structural Systems Biology,	Institute for Chemical Research, Kyoto University,		
	University of Hamburg, Germany	Japan		
11.15 - 11.45	Invited Lecture (IB-02)	Invited Lecture (IP-02)		
	"Synthetic Scaffold for Tracheal Transplant:	"Unusual Peaks in X-ray Spectra from Crystalline		
	The Promise and Challenges"	Materials"		
	Badrul Hisham Yahaya	Chris Boothroyd		
	Department of Biomedical Sciences, Universiti Sains Malaysia, Malaysia	School of Material Science and Engineering, Nanyang Technological University, Singapore		
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11.45 - 12.05	Technical Seminar (TS-01)	Technical Seminar (TS-02)		
	"FESEM with Biological Application"	"New Tools for Unlocking More Structural Information from SEM-EBSD Datasets"		
	<i>Tetsuo Oikawa</i> JEOL Asia Pte. Ltd. & Becthai Bangkok	Wu Jiang		
	Equipment and Chemical Co., Ltd.	Oxford Instruments Pte. Ltd.		
		oxiora instrumento r te. Etu.		
12.05 - 13.00	-Lunch-			

13.00 - 14.00	Chair: Ruttachuk Rungsiwiwat, Paiwan Sudwan	Chair: Sankum Nusen, Witchukorn Phuthong
	Oral Presentation Session I	Oral Presentation Session II
	OB-01: Prognostic Value of Interferon Induced	OP-01: SEM, TEM, and EELS Study of Carbides in
	Protein with Tetratricopeptide Repeats 3 in	Annealed 28wt.%Cr-1wt.%Mo Cast Iron
	Breast Cancer	Kittikhun Ruangchai
	San Hue Hua	OP-02: Processing and Characterization of CdSe
	OB-02: Alpha-Smooth Muscle Actin Expression	Thin Films Prepared by Vacuum Thermal
	Positively Correlates with the Fibrous Formation	Evaporation Method
	from Early to Advanced Stages of Liver Disease	Montree Hankoy
	in Rat Model	OP-03: Comparative X-ray Shielding, Mechanical,
	Natapong Thaneerat	and Morphological Properties of Single-Layered
	OB-03: ARID1A Immunolocalization Reveals	and Multi-Layered Bi2O3/NR Composites
	Significantly Higher Expression in Cirrhotic Liver	Donruedee Toyen
	Tissues	
	Sasipa Jaruchanapongtorn	
14.00 - 14.20	OP-01	Technical Seminar (TS-04)
14.00 - 14.20	Technical Seminar (TS-03)	"Optimized FIB/SEM Solution for Comprehensive
	"Advances SEM In-Situ Nano Mechanical	Characterization of Lithium-Based Battery
	Technology"	Materials"
	Jimmy Juan	Antonin Doupal
	Crest Nanosolution (Thailand) Co., Ltd.	Absotec Co., Ltd.
14.20 - 14.35	Coffee Break	Absolec Co., Etd.
14.20 - 14.35		Chairs Sankum Nusan, Witchukarn Dhuthang
14.35 - 15.15	Chair: Ruttachuk Rungsiwiwat, Paiwan Sudwan	Chair: Sankum Nusen, Witchukorn Phuthong
	Oral Presentation Session III	Oral Presentation Session IV
	OB-04: Chrysin Protects Against a Reduction of	OP-04: Effects of Gamma Irradiation and Thermal
	Vascular Associated Cell Proliferation in the	Aging on Mechanical and Morphological Properties
	Subgranular Zone of D-Galactose Induced Brain	of Natural Rubber Latex Films Containing Fruit Peel
	Aging	Powder
	Ram Prajit	Arkarapol Thumwong
	OB-05: Effects of Melatonin on Feline Adipose-	OP-05: Investigation of Sterling Silver Alloyed with
	derived Mesenchymal Stem Cells	Platinum
	Natthima Suwan	Nattarit Khowlueang
15.15 - 15.35	Technical Seminar (TS-05)	Technical Seminar (TS-06)
	"Battery Foreign Particle Identification	"Revealing the Hidden World of 2D Materials and
	Application"	Moiré with Atomic Force Microscope (AFM)"
	Dat Thanh Chau	Simon Fong
	Absotec Co., Ltd.	Oxford Instruments Pte. Ltd.
15.35 - 17.00		Chair: Udom Sae-Ueng, Worawit Suphamungmee
		Poster Presentation
		[Room: Rachawadee 2]
17.00 - 18.00	Annual Meeting of the Microscopy Society of Thailand [Room: SaiManee]	
18.00 - 22.00	Welcome Reception Banquet (Sponsored by Becthai Bangkok Equipment and Chemical Co., Ltd.)	
20100 22100	weicome neception banquet (sponsored by becthar bangkok equipilient and chemical co., Lta.)	

Tuesday, April 4 th , 2023				
09.00 - 09.45	Session Chair: Nattapol Laolodphan, Thapanee Sarakonsri Plenary Lecture (PL-02) [Room: SaiManee] "Video Imaging of Biological Molecules in Action by High-Speed Atomic Force Microscopy" Noriyuki Kodera WPI Nano Life Science Institute, Kanazawa University, Japan			
09.45 - 10.15	Chair: Nattapol Laolodphan, Thapanee Sarakonsri Invited Lecture (IP-03) "Analysis of Interface Structures Using Convergent-Beam Electron Diffraction" Kenji Tsuda Frontier Research Institute for Interdisciplinary Sciences, Tohoku University, Japan	Chair: Ratchadaporn Pramong, Pariwat Wisetwongsa Invited Lecture (IB-03) "Virtual Microscopy – Lessons Learned from COVID-19 in Problem-Based Learning Curricula" Susanne Eleonore Köhler Department of Anatomy and Embryology, Maastricht University, The Netherlands		
10.15 - 10.35	Technical Seminar (TS-07) "Atom Probe Tomography of Advanced Functional Materials" Devin Giddings CAMECA, AMETEK (Thailand) Co., Ltd.	Technical Seminar (TS-08) "Innovation in Microscopy Products and Technology" Ampol Assavanatenapa The Science and Educational Co., Ltd.		
10.35 - 10.50	Coffee Break			
10.50 - 11.20	Chair: Krai Meemon, Sirinush Sricharoenvej Invited Lecture (IB-04) "TOMM20 in Breast Cancer" George W. Yip Department of Anatomy, National University of Singapore, Singapore	Chair: Udom Sae-Ueng, Somjai Apisawetakan Oral Presentation Session V OB-07: The Threats of Artificial-Intelligence Generated Microscopic Imaging Pumipat Tongyoo		
11.20 - 11.50	Invited Lecture (IB-05) "Preclinical Applications of Fluorescent-Based Imaging in Cancer Models" Panomwat Amornphimoltham International College of Dentistry, Walailak University, Thailand	Technical Seminar (TS-09) "New Advances in CryoEM for Protein Structure Determination and Structure-Based Drug Discovery" Xin Nie Thermo Fisher Scientific Co., Ltd.		
11.50 - 12.10	Oral Presentation Session VI OB-06: Scanning Ion Conductance Microscopy (SICM) of Living Cells Petr V. Gorelkin	Technical Seminar (TS-10) "mIRage [®] -LS IR, a Breakthrough in IR Characterization for a Wide Range of Life Science Applications" Fei Tieng Lim Hi-Tech Imaging Co., Ltd.		
12.10 - 13.00	-Lunch-			
13.00 - 13.45	Chair: Sukanda Jiansirisomboon, Surasak Kuimalee Plenary Lecture (PL-03) [Room: SaiManee] "Microscopy Techniques Critical in Hard Disk Drive Manufacturing" Duangporn Sompongse Western Digital Storage Technologies (Thailand) Ltd., Ayutthaya, Thailand			

13.45 - 14.15	Chair: Sukanda Jiansirisomboon, Surasak Kuimalee	Chair: Thewarid Berkban, Pattanapong Boonprom	
	Invited Lecture (IP-04)	Invited Lecture (IB-06)	
	"Characterizing Low-Dimensional Materials by	"Ferroptosis-Inducing Effect of Benja-ummarit:	
	Low-Voltage Scanning/Transmission Electron	From Molecular to Novel Morphological	
	Microscopy"	Observation"	
	Masanori Koshino	Arnatchai Maiuthed	
	Nanomaterials Research Institute, National	Department of Pharmacology, Faculty of Pharmacy,	
	Institute of Advanced industrial Science and	Mahidol University, Thailand	
	Technology, Japan		
14.15 - 14.45	Technical Seminar (TS-11)	Invited Lecture (IB-07)	
	"Low Damage and High Sensitivity Analysis –	"Consuming Young Coconut Juice for Glowing	
	Optimum Bright-Field (OBE) STEM and Electron	Skin"	
	Dose Modulator (EDM) System"	Nisaudah Radenahmad	
	Tetsuo Oikawa	Division of Health and Applied Sciences, Faculty of	
	JEOL Asia Pte. Ltd. & Becthai Bangkok	Science, Prince of Songkla University, Thailand	
	Equipment and Chemical Co., Ltd.		
14.45 - 15.00	Coffee Break		
15.00 - 15.30	Chair: Nattaphol Chomsaeng, Nattapol Laolodphan	Chair: Punyavee Dechkrong, Hans de Jong	
	Oral Presentation Session VI	Invited Lecture (IB-08)	
	OI-01: Finite Element Analysis and Resin Rich	"Novel Strategies in Microscopic Analyses of	
	Area Characterization of Spread Tow Carbon	Variegated Leaf Phenotypes"	
	Fibre Fabrics from Synchrotron X-ray	Hans de Jong	
	Tomographic Microscopy	Laboratory of Genetics, Wageningen University and	
	Siriganya Kampanthong	Research, The Netherlands	
15.30 - 16.00	Technical Seminar (TS-12)	Invited Lecture (IB-09)	
	"XFlash [®] 7 EDS Series for Electron Microscopy	"Visualization of Male Sterility in Plants"	
	Fastest Quantitative and Qualitative	Pornsawan Sutthinon	
	Measurements at High Spatial Resolution"	Department of Botany, Faculty of Science,	
	Baojun Yu	Kasetsart University, Thailand	
	Bruker Malaysia		
16.00 - 16.20		Oral Presentation Session VII	
		OB-08: Sugarcane Leaf Anatomical Plasticity Under	
		Drought Stress	
		Kao Fujimoto	
17.30 - 20.00	Award Winner Announcement		
	Closing ceremony		
	Dinner [Room SaiManee]		
Wednesday, April 5 th , 2023			
09.00 - 12.00	Post-Conference Training & Conference Excursion		