

PROGRAM MPSGC 2009*

Monday December 7, 2009

8.30-9.00	Registration		
9.00-9.15	Guests to be seated		
9.15-9.40	Opening Ceremony by Professor Supot Hannongbua, Dean of the Faculty of Science, Chulalongorn University and Group Photo		Room: 201 MC:
9.40-10.10	Prof. Dr. Wong Chiow San <i>Plasma Research Laboratory, Physics Department, Faculty of Science, University of Malaya, Malaysia.</i> Title: Research Opportunities and Applications of Small Plasma Devices		Room: 201 MC:
10.10-10.40	Break : 2nd floor		
10.40-11.10	Assoc. Prof. Dr. Tirayut Vilaiwan <i>Chulalongkorn University, Bangkok, Thailand</i> Title: β -Pyrrolidinyl Peptide Nucleic Acids: Synthesis and Applications as Probes for DNA Sequence Analysis		Room: 201 MC:
11.10 – 12.30	203	204	206
11.10 – 11.30	MC001 Ms. Charinthip HENGKRAWIT <i>Department of Mathematics, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i> Title: Some Hyperbolic Sine-Cosine Type Functional Equations	PM001 Mr. Chu XINJUN <i>Department of Physics, Faculty of Science, National University of Singapore, SINGAPORE</i> Title: Interaction of PTCDA with Au Nanoparticles on MoS ₂	CH001 Associate Prof. Dr. Rashid Atta KHAN <i>Department of Chemistry, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i> Title: Adsorption and Thermodynamics Studies of the Effect of Temperature on the Removal of Lead from Waste Water Using Surfactant Modified Activated Carbon
11.30 – 11.50	MC002 Ms. Oranit PANPRASITWECH <i>Department of Mathematics, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i> Title: Linear Fractional Transformations of Continued Fractions with Bounded Partial Quotients in the Field of Formal Series	PM002 Ms. Xie LANFEI <i>Department of Physics, Faculty of Science, National University of Singapore, SINGAPORE</i> Title: ARPES Measurement of Exfoliated Bilayer Graphene	CH002 Ms. Quek Yi LING <i>Department of Chemistry, Faculty of Science, National University of Singapore, SINGAPORE</i> Title: Hydroethidine as a Fluorescent Probe in Quantifying Pro-oxidant Activity of Flavonols

11.50 – 12.10	<p>MC003 Mr. Seah Siang CHYE <i>Department of Mathematics, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: On the Existence of 6-dimensional Compact Ricci-Flat Kähler Manifolds</p>	<p>PM003 Ms. Raayaa WANANURUKSAWONG <i>Department of Materials Science, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Study of Silicon Nitride Ceramics for Dental Materials Application</p>	<p>CH003 Mrs. Kanimozhi SIVARAJAN <i>Department of Chemistry, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Determination of Estrogen Concentration In Single Zebra Fish (Danio Rerio) Liver By Hollow Fiber Protected Liquid Phase Micro-Extraction (HF-LPME) Combined With GC-MS</p>
12.10– 12.30	<p>MC004 Mrs. Mehri ASSADOLLAHZADEH <i>Institute of Mathematical Sciences, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: Certain Contact CR- Submanifold of an Odd-Dimensional Unit Sphere</p>	<p>PM004 Ms. Jiraporn BOONPO <i>Department of Materials Science, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Effect of a Mg-PSZ Additive on Hardness and Fracture Toughness of the Al₂O₃ /WC Composites</p>	<p>CH004 Ms. Liu FENG <i>Department of Chemistry, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Determination of Pyrrolizidine Alkaloids in Comfrey by Liquid Chromatography-Electrospray Ionization Mass Spectrometry</p>
12.30 – 14.30	Lunch & Poster Session : G floor & 2nd floor		
14.30 – 15.30	203	204	206
14.30 –14.50	<p>MC005 Ms. Gao YAN <i>Department of Mathematics, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Calibrating Least Squares Semidefinite Programming with Equality and Inequality Constraints</p>	<p>PM005 Mr. WU XIANG <i>Department of Physics, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Heat Flux Distribution and Rectification of Complex Networks</p>	<p>CH005 Ms. Yuan DAN <i>Department of Chemistry, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Syntheses and Catalytic Activities of Pseudo-pincer and CSC pincer-type Pd(II) Complexes Derived from Benzannulated N-heterocyclic Carbenes</p>
14.50 – 15.10	<p>MC006 Ms. Somayeh NIKMANESH <i>Institute of Mathematical Sciences, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: An Asset Liability Management Model for Casualty Insurers</p>	<p>PM006 Mr. Kanok HOURNKUMNUARD <i>Department of Physics, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Computational Model of Particle Capture by Random Cylindrical Wires in Axial Magnetic Filters</p>	<p>CH006 Ms. Lee See MUN <i>Department of Chemistry, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: Synthesis, Structures and Biological Activities of some Diorganotin Complexes</p>

15.10 – 15.30	<p>MC007 Mr. Dong XUANCHUN <i>Department of Mathematics, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Comparisons between sine-Gordon Equation and Perturbed Nonlinear Schrodinger Equations for Modeling Light Bullets beyond Critical Collapse</p>	<p>PM007 Ms. Ni XIAOXI <i>Department of Physics, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Molecular Dynamics with Quantum Heat Baths: Results for Nanoribbons and Nanotubes</p>	<p>CH007 Mr. Nguyen Minh HAI <i>Department of Chemistry, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Attaching Gold and Platinum to the Rim of Tetracene: A Synthetic and Spectroscopic Study</p>
15.30 – 16.00	Break : 2nd floor		
16.00 – 17.20	203	204	206
16.00 – 16.20	<p>MC008 Mr. Tran Minh NGOC <i>Department of Statistics and Applied Probability, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: The Loss Rank Criteria for Variable Selection</p>	<p>PM008 Mr. Hossein ASGARI <i>Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: Effects of Dust Charge Fluctuations on Formation of Dust Acoustic Dressed Soliton in Dusty Plasma</p>	<p>CH008 Ms. Li JINLING <i>Department of Chemistry, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Synthesis of Soluble and Stable Bisanthene Derivatives with NIR Absorption</p>
16.20 – 16.40	<p>MC009 Mr. Lu JUN <i>Department of Statistics and Applied Probability, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Adaptive Independent Component Analysis</p>	<p>PM009 Mr. Chen YU <i>Department of Physics, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Five-dimensional Black Holes with Lens Space Horizon Topology</p>	<p>CH009 Ms. Wan Nurul Nazneem Wan OTHMAN <i>Department of Chemistry, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: Alkaloids Isolated from the Bark of <i>Cryptocarya densiflora</i> (Lauraceae)</p>
16.40 – 17.00	<p>MC010 Mr. LIANG XUEHUA <i>Department of Statistics and Applied Probability, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Statistical Inference for Functional Linear Models with Singular Matrix</p>	<p>PM010 Mr. Mahammad Reza Abdolhosseini MOGHADDAM <i>Department of Physics, Faculty of Science, University of Malaya, MALAYSIA</i></p> <p>Title: Comparison between Analytical Solution and Experimental Setup of a Short Yb Doped Fiber Laser</p>	<p>CH010 Ms. Piyaporn AKKAHAT <i>Program in Petrochemistry, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Using Poly(Acrylic Acid) Brushes as SPR-Precursor Layer for Biosensing Applications</p>

<p>17.00 – 17.20</p>		<p>PM011 Mr. Siamak Dawazdah EMAMI <i>Department of Physics, Faculty of Science, University of Malaya, MALAYSIA</i></p> <p>Title: Gain Flatted Hybrid Optical Amplifier Using Thulium Doped Fiber and Raman Amplifier</p>	<p>CH011 Mr. Narahari MAHANTA <i>Department of Chemistry, National University of Singapore, SINGAPORE</i></p> <p>Title: Preparation and Study of Poly(vinyl alcohol) and Cellulose Based Polymeric Nanofibers Containing Silver Nanoparticles</p>
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PROGRAM MPSGC 2009*

Tuesday December 8, 2009

9.30-10.00	<p>Prof. Dr. Lee Hian Kee <i>Department of Chemistry, Faculty of Science, National University of Singapore, Singapore</i></p> <p>Title: Cost-Effective, Practical and Green Approaches to Environmental Sample Preparation</p> <p style="text-align: right;">Room: 207 MC:</p>		
10.00-10.30	<p>Assoc. Prof. Dr. Duangdao Aht-Ong <i>Chulalongkorn University, Bangkok, Thailand</i></p> <p>Title: Environmentally Friendly Bio-based and Biodegradable Polymers: Preparation, Properties, and Biodegradability Evaluation</p> <p style="text-align: right;">Room: 207 MC:</p>		
10.30-11.00	<p>Break : 2nd floor</p>		
11.00 – 12.40	203	204	206
11.00 – 11.20	<p>MC011 Mr. Ding CHAO <i>Department of Mathematics, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Some Properties on the Perturbation Analysis of the Second-order Conic Programming</p>	<p>PM012 Mr. Mateekul JIRAWATTANANON <i>Department of Materials Science, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Spectroscopic Characterization of Gold Particles in Self-striking Gold Ruby Glass</p>	<p>CH012 Mr. Sangkorn KONGJAO <i>Department of Chemical Technology, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: The Direct Electrochemical Degradation of Glycerol to 1,3-Propanediol</p>
11.20 – 11.40	<p>MC012 Ms. Zheng XIAOHUI <i>Department of Statistics and Applied Probability, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Hierarchical Modelling of Epidemic Outbreak</p>	<p>PM013 Mr. Teewin TUAPRAKONE <i>Department of Materials Science, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Slip Casting of Activated Carbon from Rice Husk</p>	<p>CH013 Ms. Soo Ching SIEW <i>Department of Chemistry, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: Production of Bioethanol from Spent Mushroom Sawdust Substrate (SMSS)</p>
11.40 – 12.00	<p>MC013 Mr. Wichai WITAYAKIATTILERD <i>Department of Mathematics, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Regularity of Piecewise Continuous Almost Periodic Solutions for Nonlinear Impulsive Systems</p>	<p>PM014 Mr. Poramate CHINTASONKRO <i>Department of Materials Science, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Preparation of Zirconia from Zircon</p>	<p>CH014 Mr. Tippapong JAIPHUEPHAE <i>Department of Chemical Technology, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Production of Powdery Natural Rubber by Spray Dryer</p>

12.00 – 12.20	<p>MC014 Ms. Wu Swee LENG <i>Institute of Mathematical Sciences, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: Approximate Distributions of Deviance in Simple Logistic Regression Models</p>	<p>PM015 Ms. Onthida KOSASANG <i>Department of Materials Science, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Impedance Study of Y-doped BaZrO₃ for Fuel Cell Application</p>	<p>CH015 Mr. Warapong SOPIN <i>Pulp and Paper Technology Program, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Comparison of Soda and Modified Soda Pulping of Corn Stalks</p>
12.20 – 12.40		<p>PM016 Ms. Nor Mas Mira Abd. RAHMAN <i>Department of Chemistry, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: Conditioning Effect on Tensile and Flexural Properties of Injection Moulded Short Glass Fibre Reinforced Polyamide 6, 6 Composites</p>	<p>CH016 Mr. Surachat CHOMBANPHEW <i>Department of Chemical Technology, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Dynamic Modeling of Unsaturated Polyester Production from Maleic anhydride and Propylene glycol</p>
12.40 – 14.30	Lunch & Poster Session : G floor & 2nd floor		
14.30 – 15.50	203	204	206
14.30 – 14.50	<p>MC015 Ms. LI WEI <i>Department of Mathematics, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Effective Versions of Cantor-Bernstein Theorem</p>	<p>PM017 Mrs. Sharife SHAHI <i>Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: Application of Four-Wave Mixing for Determination of Nonlinear Parameter Based on Bi-EDF</p>	<p>CH017 Ms. Zaira Zaman CHOWDHURY <i>Department of Chemistry, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: Kinetics and Equilibrium Isotherm Studies on the Adsorption of Lead (II) onto Surfactant Modified Palm-oil Fuel Ash from Synthetic Water in a Single Solute System</p>
14.50 – 15.10	<p>MC016 Ms. Smaneh Gholizadeh HAMIDI <i>Institute of Mathematical Sciences, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: Properties for a Certain Class of Multivalent Functions</p>	<p>PM018 Mr. Isaac Ow Yueh SHENG <i>Department of Physics, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Fabrication of Micron-size Distributed Bragg Reflectors in Porous Silicon</p>	<p>CH018 Mr. Vijay Manickam ACHARI <i>Department of Chemistry, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: Molecular Dynamics Simulation of Bio-Related Glycolipid Membranes</p>

15.10 – 15.30	<p>MC017 Mr. Ali H. M. ABUZAIID <i>Institute of Mathematical Sciences, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: Detection of Outliers in Simple Circular Regression Model</p>	<p>PM019 Ms. Varalak SAENGSUWAN <i>Department of Physics, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Development of XRF Imaging and Analysis at the Siam Photon Laboratory</p>	<p>CH019 Mr. Jiao CHONGJUN <i>Department of Chemistry, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Bis-<i>N</i>-fused quaterrylenebis(dicarboximide): A Novel Stable and Soluble NIR Dye</p>
15.30 – 15.50		<p>PM020 Ms. Siti Fatimah NORIZAN <i>Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: Controllable Wavelength Channels for Multiwavelength Brillouin Bismuth/Erbium Based Fiber Laser</p>	<p>CH020 Ms. Cheeraporn ANATHANAWAT <i>Program of Macromolecular Science, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Label-Free DNA Sensor Based on Biotinylated Pyrrolidinyl Peptide Nucleic Acid and Surface Plasmon Resonance Technique</p>
15.50 – 16.20	Break : 2nd floor		
16.20 – 17.40	203	204	206
16.20 – 16.40		<p>PM021 Mr. Vinayak Bharat NAIK <i>Department of Physics, Faculty of Science, National University of Singapore, SINGAPORE</i></p> <p>Title: Multifunctional Properties of Multiferroic Oxides</p>	<p>CH021 Ms. Matinee JAMKRATOKE <i>Department of Chemistry, Faculty of Science, Chulalongkorn University, Bangkok, THAILAND</i></p> <p>Title: Fluorescence Sensors Based on Naphthoquinone and Boronic Acid: Their CN Sensing Properties</p>
16.40 – 17.00		<p>PM022 Mrs. Roghaieh PARVIZI <i>Department of Physics, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i></p> <p>Title: A Blend of the SBS and Four-Wave Mixing in Bismuth Based Highly Nonlinear Fiber</p>	

17.00 – 17.20		PM023 Mr. YAN YUANJUN <i>Department of Physics, Faculty of Science, National University of Singapore, SINGAPORE</i> Title: Two-Photon Polymerization 3D Nano-lithography and its Applications in Photonics	
17.20 – 17.40		PM024 Ms. Asfarina Amir HASSAN <i>Department of Chemistry, Faculty of Science, University of Malaya, Kuala Lumpur, MALAYSIA</i> Title: Impact and Dynamic Mechanical Properties of Injection Moulded Short Glass Fibre Reinforced Polyamide 6 Composites Subjected to Different Environmental Condition	

PROGRAM MPSGC 2009*
Wednesday December 9, 2009

9.30-10.00	Assoc. Prof. Dr. Paisan Nakmahachalasint <i>Department of Mathematics, Faculty of Science, Chulalongkorn University, Bangkok, Thailand</i> Title: On the Stability of Functional Equations	Room: 208 MC:
10.00-10.30	Closing Ceremony by and Group Photo	
10.30-11.00	Lunch : G floor	

