

**3rd Graduate Student Symposium**  
**10 & 11 NOVEMBER 2005**  
**SR28**

**Symposium Programme**

**DAY 1**

- 9.00am to 9.15am Introduction by Asst Prof Yip Hon Kay, John
- 9.15am to 9.45am Properties and Applications of Push-Pull molecules  
Miss Che Huijuan  
*(Examiners: Prof Chan SOH, Dr Fan WY, Dr Xu QH)*
- 9.45am to 10.15am Probiotics and the Health Benefits  
Mr Feng Shengbao  
*(Examiners: Dr Huang DJ, Dr Leong LP, Dr Popovich DG)*
- 10.15am to 10.45am Catalytic Markovnikov and anti-Markovnikov Functionalization of Alkenes and Alkynes:  
Recent Developments and Trends  
Miss Han Yuan  
*(Examiners: Dr Huynh HV, Dr Tan CH, Dr Gob LY)*
- 10.45am to 11.15am Ionic Liquid as a 'Green' Solvent for Metal Ions Extraction  
Mr Hii Toh Ming  
*(Examiners: Prof Lee HK, Dr Tob CS, A/P Khoo SB)*
- 11.15am to 11.45am Solvothermal Synthesis of Inorganic Nanomaterials  
Mr Huang Mingxing  
*(Examiners: A/P Vittal JJ, A/P Kang HC)*
- 11.45am to 12.15pm Chip-Based P450 Drug Metabolism Coupled to Electrospray Ionization-Mass spectrometry  
Detection  
Mr Kong Kah Hoe  
*(Examiners: Dr Lam YL, Dr Lear MJ, Dr Yao SQ)*
- 12.15pm to 12.45pm Development of High Capacity Nickel Metal Hydride Batteries Using Magnesium Based  
Hydrogen Absorbing Superlattice Alloys  
Mr Krishnan Chandrasekaran  
*(Examiners: Dr Bettens RPA, A/P Lob KP, A/P Jaenicke S)*
- 12.45pm to 2.00pm *Lunch Break*
- 2.00pm to 2.30pm Application of Porous Material for Gas Storage  
Miss Leong Wei Lee  
*(Examiners: A/P Vittal JJ, Dr Yip HK, A/P Xue Feng)*
- 2.30pm to 3.00pm Self-assembly of Oligonucleotide Functionalized Gold Nanoparticle Conjugates  
Mr Li Xinming  
*(Examiners: A/P Li TH, A/P Leong WK, Dr Wobland T)*
- 3.00pm to 3.30pm Machines at the Molecular Level  
Mr Soh Wei Kian  
*(Examiners: Dr Yip HK, Dr Huynh HV, A/P Leong WK)*

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- |                  |  |
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| 3.30pm to 4.00pm | Conversion of Biomass to Fuel Alcohol-Methanol and Ethanol<br>Miss Vadivukarasi Raju<br><i>(Examiners: A/P Chuah GK, A/P Jaenicke Stephan)</i> |
| 4.00pm to 4.30pm | Quantitative MS for Proteomics<br>Miss Xie Hong<br><i>(Examiners: Dr Gao ZQ, Dr Lam YL,)</i>   |
| 4.30pm to 5.00pm | Irradiated Food – Detection Methods<br>Miss Nguyen Thi My Phuc<br><i>(Examiners: A/P Zhou WB, A/P Kasapis S)</i>                               |

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**DAY 2**

- 9.00am to 9.30am            Solid Phase Microextraction (SPME) for the Analysis of Environment Sample  
Miss Zhan Tong  
*(Examiners: Dr Fan WY, Prof Lee HK, Dr Tob CS)*
- 9.30am to 10.00am        Organic Nanomaterials: Few Synthetic Approaches, Characterization and  
Applications  
Mr Ankur Duarah  
*(Examiners: Dr Suresh V, Dr Weng Zhiqiang, Dr Lu YX)*
- 10.00am to 10.30am      Evaluation of Nutritional Quality of Infant Cereals  
Miss Bansal Geeta  
*(Examiners: A/P Kasapis S, Dr Huang DJ)*
- 10.30am to 11.00am      Composite Mesostructures Formed by Nanoconfinement  
Miss Deng Suzi  
*(Examiners: A/P Jaenicke S, Dr Sim WS)*
- 11.00am to 11.30am      Hydrogen Production from Diamond-supported catalysts  
Miss Hoh Hui Ying  
*(Examiners: Dr Lee AM, Dr Bettens RPA)*
- 11.30am to 12.00pm      Water-soluble Conjugated Polymers as Biosensors  
Miss Lu Xiaomei  
*(Examiners: Dr Xu QH, A/P Wong MW)*
- 12.00pm to 12.30pm      Molecular Imprinting Technology: A Good Tool for Drug Bioanalysis  
Miss Tang Qianjun  
*(Examiners: A/P Khor E, Dr Yip HK)*
- 12.30pm to 1.45pm        *Lunch Break*
- 1.45pm to 2.15pm        Quantum Dot Bioconjugates for Ultrasensitive Nonisotopic Detection  
Miss Sini George  
*(Examiners: A/P Khoo SB, Dr Mak K, Prof Li FY)*
- 2.15pm to 2.45pm        Nanopatterning of Polymer Film using Scanning Probe Lithography  
Mr Satyananda Barik  
*(Examiners: Dr Suresh V, Prof Siow KS)*
- 2.45pm to 3.15pm        Procyanidins in Cocoa and Chocolate: Is There a Contribution to Human Health?  
Miss Viduranga Yashasvi Waisundara  
*(Examiners: Dr Huang DJ, Dr Popovich DG)*
- 3.15pm to 3.45pm        Liquid Crystalline Polymers and their Applications  
Miss Wang Yan  
*(Examiners: Prof Gob SH, Dr Mak K)*

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| 3.45pm to 4.15pm | Development of Ordered Mesoporous Materials<br>Miss Xu Li<br><i>(Examiners: Prof Lee HK, A/P Chuah GK, A/P Vittal JJ)</i>  |
| 4.15pm to 4.45pm | Novel PPV Derivatives for OLED: Synthesis, Characterization and Structure-property Relationship Study<br>Mr Zhong Yu Lin<br><i>(Examiners: Dr Suresh V, A/P Khoo SB)</i> |
| 4.45pm to 5.15pm | Nanotechnology and Biology<br>Miss Ng Seow Ling<br><i>(Examiners: Dr Ong BL, A/P Li TH, Dr Fan WY)</i>   |