



**POCER 2017 Tentative Agenda**  
*Date of update: 13 July 2017*

**Time Event**

| <b>Time</b>          | <b>Event</b>                              |
|----------------------|---|
| <b>08:00 - 08:30</b> | Registration & Poster Installation        |
| <b>08:30 - 09:00</b> | Opening Ceremony                          |
| <b>09:00 - 09:45</b> | Plenary Talk: Prof. Thomas Yang           |
| <b>09:45 - 10:15</b> | Tea Break                                 |
| <b>10:15 - 12:00</b> | Parallel Sessions 1A & 1B                 |
| <b>12:00 - 13:30</b> | Lunch & Poster Session                    |
| <b>13:30 - 14.15</b> | Keynote Talk: Assoc Prof. Joon Ching Juan |
| <b>14:15 - 15:45</b> | Parallel Sessions 2A & 2B                 |
| <b>15:45 - 16:15</b> | Tea Break & Poster Session                |
| <b>16:15 - 17:30</b> | Parallel Sessions 3A & 3B                 |
| <b>17:30 - 18:30</b> | Award Presentation & Closing Ceremony     |

**POCER 2017 Tentative Presentation Sessions**

**25 July 2017, 10:15 – 12:00: Parallel Sessions 1A & 1B**

| <b>Session 1A: Chemical and Biological Processing</b> |  |   |  |
|---|--|---|--|
| <b>Paper ID</b>                                       | <b>Title</b>   | <b>Authors</b>  | <b>Correspondence email</b>  |
| <b>POCER186</b>                                       | Antibacterial study of tungsten oxide particles on Staphylococcus Aureus and Pseudomonas Aeruginosa                                | Yuet-Lee Ying, Swee-Yong Pung, Ming-Thong Ong and Yuh-Fen Pung*                               | <a href="mailto:sypung@usm.my">sypung@usm.my</a>                                   |
| <b>POCER192</b>                                       | Optimization of microwave-hydrothermal extraction of malic acid from Cactus (Euphorbia Trigona) using response surface methodology | Chung Loong Yiin, Armando T. Quitain*, Suzana Yusup, Mitsuru Sasaki, and Tetsuya Kida         | <a href="mailto:quitain@kumamoto-u.ac.jp">quitain@kumamoto-u.ac.jp</a>             |
| <b>POCER193</b>                                       | Bio-Decolorization of malachite green and reactive black 5 in anoxic-aerobic moving bed biofilm reactor                            | Ong CY*, Lee KM, Lim CK and Tee WM  | <a href="mailto:ong171@1utar.my">ong171@1utar.my</a>                               |
| <b>POCER195</b>                                       | Extraction of essential oil from Leptospermum flavescens and Melaleuca cajuputi leaves for herbicides allelopathy                  | Benjamin Kueh Wei Bin, Suzana Yusup*, Noridah Osman   | <a href="mailto:drsuzana_yusuf@utp.edu.my">drsuzana_yusuf@utp.edu.my</a>           |
| <b>POCER207</b>                                       | Primary capture of Bacillus subtilis xylanase from fermentation broth with an alcohol/salt aqueous biphasic system                 | Cindy Xin Yi Chai, Pik Ki Wan, John Chi-Wei Lan, Joo Shun Tan, Pau Loke Show and Hui Suan Ng* | <a href="mailto:GrraceNg@ucsiuniversity.edu.my">GrraceNg@ucsiuniversity.edu.my</a> |
| <b>POCER209</b>                                       | Extraction of Betacyanins from Red Pitaya employing liquid-liquid fractionation  | Hui Yi Leong, Pau Loke Show*, Chien Wei Ooi, Advina Lizah Julkifle                            | <a href="mailto:PauLoke.Show@nottingham.edu.my">PauLoke.Show@nottingham.edu.my</a> |
| <b>POCER214</b>                                       | Conversion of microalgal Biomass to biochar in wastewater treatment  | Yu Kai Ling*, Show Pau Loke, Ling Tau Chuan, and Ong Hwai Chyuan                              | <a href="mailto:kai-ling@hotmail.com">kai-ling@hotmail.com</a>                     |

| <b>Session 1B: Process System Engineering</b> |   |   |  |
|---|---|---|--|
| <b>Paper ID</b>                               | <b>Title</b>  | <b>Authors</b>  | <b>Correspondence email</b>  |
| <b>POCER171</b>                               | Multi-objective molecular design with analytic hierarchy process  | Jecksin Ooi, Michael Angelo B. Promentilla, Raymond R. Tan, Denny K. S. Ng, Nishanth G. Chemmangattuvalappil* | <a href="mailto:Nishanth.C@nottingham.edu.my">Nishanth.C@nottingham.edu.my</a>                           |
| <b>POCER175</b>                               | Safety and health assessment in chemical product design   | Rafeqah Raslan, Mimi H. Hassim*, Nishanth Gopalakrishnan Chemmangattuvalappil, Denny K. S. Ng                 | <a href="mailto:mimi@cheme.utm.my">mimi@cheme.utm.my</a>   |
| <b>POCER177</b>                               | Enterprise decision making framework for chemical product design in integrated biorefineries                | Yen Yi Lai, Kelvin Chu How Yik, Han Peng Hau, Chai Peng Chow and Lik Yin Ng*                                  | <a href="mailto:ngly@utar.com.my">ngly@utar.com.my</a>   |
| <b>POCER196</b>                               | Addressing criticality via redundancy allocation in energy systems design: A systematic approach            | Viknesh Andiappan*, Michael Francis D. Benjamin, Raymond R. Tan, Denny K. S. Ng                               | <a href="mailto:VikneshAndiappan.Murugappan@taylor.edu.my">VikneshAndiappan.Murugappan@taylor.edu.my</a> |
| <b>POCER205</b>                               | New risk assessment method for green financing with analytic network process approach                       | Ngan Sue Lin*, Lam Hon Loong, and Puan Yatim  | <a href="mailto:kebx6nsl@nottingham.edu.my">kebx6nsl@nottingham.edu.my</a>                               |
| <b>POCER206</b>                               | Superstructure optimization for chilled and cooling water system utilizing waste heat from multiple sources | Wai Mun Chan, Yik Teeng Leong, Yong Kuen Ho, Irene Mei Leng Chew*   | <a href="mailto:Irene.chew@monash.edu">Irene.chew@monash.edu</a>   |
| <b>POCER217</b>                               | The overview of green and lean manufacturing  | Wei Dong Leong*, Hon Loong Lam, S.G. Ponnambalam and Chee Pin Tan   | <a href="mailto:leongweidong@gmail.com">leongweidong@gmail.com</a>                                       |

**POCER 2017 Tentative Presentation Sessions (Continued)**

**25 July 2017, 14:15 – 15:45: Parallel Sessions 2A & 2B**

| <b>Session 2A: Energy Management &amp; Carbon Capture</b> |   |   |  |
|---|---|---|--|
| <b>Paper ID</b>   | <b>Title</b>  | <b>Authors</b>  | <b>Correspondence email</b>  |
| <b>POCER183</b>   | Temperature dependent non-Newtonian flow of molten salt as thermal energy storage for solar thermal collectors            | Sumair Faisal Ahmed*, Khalid M, Rashmi W and Nowshad Amin   | <a href="mailto:kebx4faa@nottingham.edu.my">kebx4faa@nottingham.edu.my</a>                     |
| <b>POCER184</b>   | Carbon capture and utilization: Using alkaline wastes from industries   | Sunday Ogakwu Omale*, Thomas Choong Shean Yaw, Luqman Chuah Abdullah, Shamsul Izhar Bin Siajam, and Yip Mum Wai | <a href="mailto:soomale67@gmail.com">soomale67@gmail.com</a>                                   |
| <b>POCER194</b>   | Hydrothermal liquefaction of palm kernel shell to bio-oil under sub- and supercritical conditions: A global kinetic study | Yi Heng Chan, Suzana Yusup*, Armando T. Quitain, Yoshimitsu Uemura, Mitsuru Sasaki, Tetsuya Kida                | <a href="mailto:drsuzana_yusuf@utp.edu.my">drsuzana_yusuf@utp.edu.my</a>                       |
| <b>POCER203</b>   | Analysis of specific energy consumption in turning and milling processes  | Sakundarini, N.*, Chian, H.C., Chin, C.M.M. and Tarar, M.A.   | <a href="mailto:novita.sakundarini@nottingham.edu.my">novita.sakundarini@nottingham.edu.my</a> |
| <b>POCER219</b>   | Feasibility study on polygeneration system using sewage treatment plant as the anchor in the symbiotic energy network     | Loon Xian Teh, Jit Yong Koh, Wai Mun Chan, Irene Mei Leng Chew*   | <a href="mailto:Irene.chew@monash.edu">Irene.chew@monash.edu</a>                               |
| <b>POCER222</b>   | Cement industry and carbon emissions in Malaysia  | B Bakhtyar*, Tarek Kacemi, Md Atif Nawaz  | <a href="mailto:bakhtyar@uum.edu.com">bakhtyar@uum.edu.com</a>                                 |

| <b>Session 2B: Sustainability</b> |   |   |  |
|-----------------------------------|---|---|--|
| <b>Paper ID</b>                   | <b>Title</b>  | <b>Authors</b>  | <b>Correspondence email</b>  |
| <b>POCER189</b>                   | Comparison of training algorithms for synthesis of Polycaprolactone via biopolymerization using feedforward neural network        | Y.J Wong, Senthil Kumar Arumugasamy*, J. Jewaratnam   | <a href="mailto:SenthilKumar.Arumugasamy@nottingham.edu.my">SenthilKumar.Arumugasamy@nottingham.edu.my</a>                       |
| <b>POCER204</b>                   | Need for a lean and green manufacturing integrated approach   | Tarar M.A.* and Chin C.M.M.   | <a href="mailto:kedx4maa@nottingham.edu.my/imnedian246_44@hotmail.com">kedx4maa@nottingham.edu.my/imnedian246_44@hotmail.com</a> |
| <b>POCER212</b>                   | Advanced treatment of landfill leachate via effective physical technology   | Chong Yee Kee, Tau Chuan Ling, Pau Loke Show*, and Joon Ching Juan  | <a href="mailto:PauLoke.Show@nottingham.edu.my">PauLoke.Show@nottingham.edu.my</a>   |
| <b>POCER213</b>                   | Biomass and lipid productions of microalgae in palm oil mill effluent (POME)  | Wai Yan Cheah, Pau Loke Show, Joon Ching Juan, Jo-Shu Chang, John Chi-Wei Lan, and Tau Chuan Ling*        | <a href="mailto:tcling@um.edu.my">tcling@um.edu.my</a>   |
| <b>POCER218</b>                   | Influence of phosphorus and biochar type on the performance of green gram (Vigna radiata) in tropical sub-humid areas of Malaysia | Harshini Pakalapati, Fatin Fatihah, Mukhtar Musa, Ajit Singh, Mohammad Khalid*, Senthil Kumar Arumugasamy | <a href="mailto:khalids@sunway.edu.my">khalids@sunway.edu.my</a>   |
| <b>POCER221</b>                   | Inclusive wealth as sustainable development measurement: A Case of ASEAN countries  | Isma Addi Jumbri* and Shunsuke Managi   | <a href="mailto:isma@utem.edu.my">isma@utem.edu.my</a>   |

**POCER 2017 Tentative Presentation Sessions (Continued)**

**25 July 2017, 16:15 – 17:30: Parallel Sessions 3A & 3B**

| <b>Session 3A: Catalysis</b> |  |   |  |
|------------------------------|--|---|--|
| <b>Paper ID</b>              | <b>Title</b>   | <b>Authors</b>  | <b>Correspondence email</b>  |
| <b>POCER174</b>              | Photodeposition of Ag nanoparticles on SiO <sub>2</sub> @Fe <sub>2</sub> O <sub>3</sub> nanocomposite sphere: An efficient photocatalytic system for conversion of CO into CO <sub>2</sub> | Kasimayan Uma, Guan-Ting Pan, Shih-Wen Chen, Thomas C.-K. Yang*   | <a href="mailto:ckyang@mail.ntut.edu.tw">ckyang@mail.ntut.edu.tw</a> |
| <b>POCER181</b>              | Synthesis and characterization of copper-doped lanthanum perovskite catalyst for nitrous oxide oxidation   | Guang-Ching Lee, Guan-Ting Pan, Chao-Ming Huang, Zhi-Yi Wang, Siewhui Chong, Joo Ching Juan, and Thomas C.-K. Yang* | <a href="mailto:ckyang@ntut.edu.tw">ckyang@ntut.edu.tw</a>           |
| <b>POCER185</b>              | Degradations of aqueous bisphenol A via a iodine-bismuth-codoped-titanium dioxide photocatalyst under simulated solar light irradiation  | Chao-Yin Kuo*, You-Ru Li, and Tzu-Hsuan Li  | <a href="mailto:leo0990tw@gmail.com">leo0990tw@gmail.com</a>         |
| <b>POCER187</b>              | Comparison between aqueous bisphenol A and acute toxicity removal using a KH(IO <sub>3</sub> ) <sub>2</sub> /Bi <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> composite photocatalyst      | Chao-Yin Kuo*, Wen-Hsin Hsu, and Tzu-Hsuan Li   | <a href="mailto:amyqw3042@gmail.com">amyqw3042@gmail.com</a>         |
| <b>POCER216</b>              | Photocatalytic activities of V-doped, Mo-doped and V/Mo Co-doped strontium titanate  | Minh-Vien Le*, T-Que-Phuong Phan, Chi-Phu Huynh and Sy-Nguyen Pham  | <a href="mailto:lmvien@hcmut.edu.vn">lmvien@hcmut.edu.vn</a>         |

| <b>Session 3B: Materials</b> |  |   |  |
|------------------------------|--|---|--|
| <b>Paper ID</b>              | <b>Title</b>   | <b>Authors</b>  | <b>Correspondence email</b>  |
| <b>POCER173</b>              | Hydrothermal synthesis of strontium titanate nanoparticles for photoelectrochemical water splitting application                            | Bao Lee Phoon, Guan-Tin Pan, Thomas CK Yang, Chin Wei Lai* and Joon Ching Juan* | <a href="mailto:cwlai@um.edu.my">cwlai@um.edu.my</a> ;<br><a href="mailto:jcjuan@um.edu.my">jcjuan@um.edu.my</a> |
| <b>POCER176</b>              | The covalently functionalized robust reduced graphene oxide-polyaniline nanocomposites for supercapacitor applications: A one-pot strategy | Nadarajan Arjun, Thomas C.-K. Yang*, Kasimayan Uma, Guan-Ting Pan               | <a href="mailto:ckyang@mail.ntut.edu.tw">ckyang@mail.ntut.edu.tw</a>   |
| <b>POCER180</b>              | The synthesis of highly efficient gold nanoparticles supported on titanium dioxide for carbon monoxide oxidation                           | Chih-Wen Huang, Guan-Ting Pan, Siewhui Chong, and Thomas C.-K. Yang*            | <a href="mailto:ckyang@ntut.edu.tw">ckyang@ntut.edu.tw</a>   |
| <b>POCER188</b>              | Biodegradable and biocompatible wound dressing membrane: Effect of chitosan concentration on membrane properties                           | Xin Yi Tan, Wei Shan Yap, Phaik Eong Poh*, and Lay Hong Chuah                   | <a href="mailto:poh.phaik.eong@monash.edu">poh.phaik.eong@monash.edu</a>   |
| <b>POCER226</b>              | Trends in green propulsion using ceramic microthrusters: A review  | Kalaimani Markandan, Jit Kai Chin*, and Michelle T.T. Tan                       | <a href="mailto:Jit-Kai.Chin@nottingham.edu.my">Jit-Kai.Chin@nottingham.edu.my</a>                               |

## POCER 2017 Poster Sessions (Continued)

25 July 2017, During lunch session 12:00 – 13:30 & and tea break 15:45 – 16:15

| Paper ID | Title   | Authors   | Correspondence email   |
|----------|---|---|--|
| POCER172 | Deoxygenation of triolein to green hydrocarbon by using Cu supported on titania   | Lee Eng Oi, Min-Yee Choo, Bao Lee Phoon, Hwei Voon Lee, Yu-Chuan Lin, and Joon Ching Juan*  | <a href="mailto:icjuan@um.edu.my">icjuan@um.edu.my</a>   |
| POCER178 | In-situ catalytic pyrolysis of cellulose with CaO   | Yen Yee Chong, Suchithra Thangalazhy-Gopakumar*, Hoon Kiat Ng, Suyin Gan, Lai Yee Lee   | <a href="mailto:Suchithra.Thangalazhy@nottingham.edu.my">Suchithra.Thangalazhy@nottingham.edu.my</a> |
| POCER179 | Fabrication of asymmetric supercapacitor based on Mn-Co oxide and nitrogen-containing activated carbon  | Guan-Ting Pan, Siewhui Chong, Thomas C.-K. Yang, Zhe-Wei Zhao, and Chao-Ming Huang*   | <a href="mailto:charming@mail.ksu.edu.tw">charming@mail.ksu.edu.tw</a>                               |
| POCER190 | Carbon dioxide adsorption using activated carbon impregnated with metal oxides  | Hazimah Madzaki, Wan Azlina Wan Ab Karim Ghani*, Thomas Choong Shean Yaw, and Noraziah Muda   | <a href="mailto:wanzalina@upm.edu.my">wanzalina@upm.edu.my</a>                                       |
| POCER191 | Feasibility of alginate beads as packing media for anaerobic palm oil mill effluent (POME) treatment  | Phaik Eong Poh*, Jian Hang Ting, Darwin Gouwanda  | <a href="mailto:poh.phaik.eong@monash.edu">poh.phaik.eong@monash.edu</a>                             |
| POCER200 | Debottlenecking for sustainable biomass supply chain: PCA approach  | Bing Shen How* and Hon Loong Lam  | <a href="mailto:ikki1314@me.com">ikki1314@me.com</a>   |
| POCER201 | The role of natural organic matters (NOMs) in water and soil remediation  | Seyedeh Pegah Jalilian Ahmadkalaei, Suyin Gan*, Hoon Kiat Ng, Suhaimi Abdul Talib   | <a href="mailto:suyin.gan@nottingham.edu.my">suyin.gan@nottingham.edu.my</a>                         |
| POCER202 | Sustainability of green building construction in Malaysia   | Chin, C.M.M.*, Singh, A.S.G.I., Sakundarini, N. and Tarar, M.A  | <a href="mailto:Christina.Chin@nottingham.edu.my">Christina.Chin@nottingham.edu.my</a>               |
| POCER208 | Concepts of photobioreactor design for microalgae – A mini review   | Chung Hong Tan, Pau Loke Show*, Hon Loong Lam, Tau Chuan Ling, Jo-Shu Chang   | <a href="mailto:PauLoke.Show@nottingham.edu.my">PauLoke.Show@nottingham.edu.my</a>                   |
| POCER210 | Sugaring out effect of lipase via aqueous biphasic sublation (ABS)  | Revathy Sankaran, Pau Loke Show*, and Yee Jiun Yap  | <a href="mailto:PauLoke.Show@nottingham.edu.my">PauLoke.Show@nottingham.edu.my</a>                   |
| POCER211 | Nutrient-enriched biowaste from food industry as organic fertilizer for improving growth and yield of crops                                       | Kit Wayne Chew and Pau Loke Show*   | <a href="mailto:PauLoke.Show@nottingham.edu.my">PauLoke.Show@nottingham.edu.my</a>                   |
| POCER215 | Bioactive compounds from marine macroalgae  | Shir Reen Chia, Hwai Chyuan Ong, Tau Chuan Ling, Pau Loke Show*   | <a href="mailto:PauLoke.Show@nottingham.edu.my">PauLoke.Show@nottingham.edu.my</a>                   |
| POCER220 | Optimisation of electrodeposition parameters for N-type bismuth telluride films on carbon fibre using design of experiments                       | Priyanka R. Jagadish*, Mohammad Khalid, Lau Phei Li, Nowshad Amin , Andy Chan   | <a href="mailto:kebx4pri@nottingham.edu.my">kebx4pri@nottingham.edu.my</a>                           |
| POCER223 | Preparation and characterisation of bio-char from mixed biomass   | Lee Chi Wei, Dooshyantsingh Oochit, Khalid Hussein Omar Almashjary, Anurita Selvarajoo*, and Lau Phei Li                              | <a href="mailto:Anurita.Selvarajoo@nottingham.edu.my">Anurita.Selvarajoo@nottingham.edu.my</a>       |
| POCER224 | Optimisation and evaluation of coagulation–flocculation process for palm oil mill effluent (POME) Treatment using Peanut–Okra and Wheat Germ–Okra | Chung Chee Yap, Apurav Krishna Koyande, Arvin A/L Arputhan, Lim Zhi Chien, Anurita Selvarajoo*, and Vasanthi Sethu                    | <a href="mailto:Anurita.Selvarajoo@nottingham.edu.my">Anurita.Selvarajoo@nottingham.edu.my</a>       |
| POCER225 | Co-pyrolysis of palm empty fruit bunch with palm oil sludge for the production of high pH bio-oil   | Chu Gen Lim, Li Wen Chow, Jia Yun Teoh, Shu Anne Tio, Yen Yee Chong, and Suchithra Thangalazhy-Gopakumar*                             | <a href="mailto:Suchithra.Thangalazhy@nottingham.edu.my">Suchithra.Thangalazhy@nottingham.edu.my</a> |
| POCER227 | Catalytic deoxygenation of Jatropha Curcas oil to green diesel over Cocoa pod husk derived carbon-supported Ni-Ag catalyst                        | Hwei Voon Lee*, Nurul Asikin Mijan, Juan Joon Ching, Ooi Jin Mei, Abdulkareem Ghassan Alsultan, Bao Lee Phoon, and Taufiq-Yap Yun Hin | <a href="mailto:leehweivoon@um.edu.my">leehweivoon@um.edu.my</a>                                     |