

NTU Supervisors & Projects

NEWRI Ecosystem

| Supervisor | Email Contact | Research areas of potential PhD studies |
|-------------------------|-----------------------|---|
| Benoit Jean Guieysse | BJGuieysse@ntu.edu.sg | Development of biochemical and biological processes for the removal of hazardous contaminants. Biofuel production. |
| Chang Wei-Chung, Victor | WCChang@ntu.edu.sg | Air quality with special emphasis on aerosol physics and chemistry, indoor/outdoor air quality monitoring, and human exposure assessments via inhalation |
| Chen Chin-Kuang, Jim | jimchen@ntu.edu.sg | High flux membranes for water purification applications: molecular simulation and nanomaterial fabrication |
| Cheng Nian Sheng | CNSCheng@ntu.edu.sg | Sediment Transport; Particle-flow interactions; Turbulence in open channel flows; Vegetation flow dynamics |
| Chiew Yee Meng | CYMCHIEW@ntu.edu.sg | Flow-sediment-structure interaction; Scour and scour protection; Fluvial and coastal hydraulics |
| Chua Hock Chye, Lloyd | chcchua@ntu.edu.sg | Water resources; Real time monitoring /simulations, urban catchment hydrology, modeling of rainfall-runoff from urban catchments and water quality of urban runoff. Artificial neural networks in the modeling of the rainfall-runoff process |
| Chui Peng Cheong | cpchui@ntu.edu.sg | Environmental Engineering |
| Gin Yew-Hoong Karina | cyhgin@ntu.edu.sg | Water quality, ecosystem processes, monitoring and modeling, eutrophication, emerging organic contaminants, pathogen detection |
| Huang Zhenhua | ZHHuang@ntu.edu.sg | Wave-structure interaction; Hydrodynamics; Large scale circulations and transport phenomena in coastal waters; Environmental fluid mechanics; Ocean and Coastal Engineering |
| Law Wing-Keung, Adrian | cwklaw@ntu.edu.sg | Environmental fluid mechanics; Wastewater disposal and impact; Wastewater treatment process; Pollutant transport in coastal environment |
| Lam Khin Yong | lamky@ntu.edu.sg | Computational mechanics. Development of refined meshless (element-free) techniques. Smart (piezoelectric/magnetostrictive) materials modelling for active control. Computational nanoscience/BioMEMS. Multiscale simulations |
| Li Bing | cbli@ntu.edu.sg | Earthquake and Blast Resistant Design: Seismic and blast resistant design of reinforced concrete buildings and buildings incorporating precast concrete elements. Development blast testing for explosive effects on reinforced concrete structures. Structural Concrete : Design and behaviour of reinforced and precast concrete structures, reinforced detailing and cyclic strut-and-tie models. Structural Dynamics : Non-linear dynamic response of buildings subjected to blast and seismic loading. Probabilistic performance assessment of reinforced concrete structures in blast environments. |
| Lim Teik Thye | CTTLim@ntu.edu.sg | Development of environmental nanomaterials for pollution control; Environmental remediation; Waste treatment for reuse; Contaminant fate and transport in surface waters and groundwater |
| Lim Siow Yong | CSYLIM@ntu.edu.sg | Hydraulic Engineering; Sediment Transport and |

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| | | Scouring Phenomena; Open Channel Hydraulics |
| Liu Yu | cylIU@ntu.edu.sg | Biological nutrient (N & P) removal by microbial granules; Biofilm reactor for pharmaceutical wastewater treatment; Anammox process; Mechanism of biogranulation; New approach for biofouling control |
| Lo Yat-Man Edmond | cymlo@ntu.edu.sg | Wave mechanics; Urban water resources management |
| Ng Wun Jern | wjng@ntu.edu.sg | Biotreatment processes, Bioreduction - dehalogenation, cyclic systems, anaerobic processes doped sorbents, competitive sorption-desorption |
| Quek Hiok Chai | ASHCQUEK@ntu.edu.sg | Computational Intelligence, Artificial Intelligence, Neurocognitive Science, Intelligence Systems, Computational Finance, Intelligent/Neural Control |
| Shuy Eng Ban | cshuyeb@ntu.edu.sg | Quantity and quality modelling and management of urban storm runoff; Sustainable urban drainage systems; Analysis and control of water hammer in pipelines; Density stratified flow; Aquifer storage and recovery; Air pollutant dispersion modeling |
| Sun Delai, Darren | ddsun@ntu.edu.sg | Membrane technology for water and energy production, membrane fouling control, nano-structured material for membrane water treatment, multifunctional nano membrane, advanced oxidation and reutilization of waste into value-added product. |
| Tan Soon Keat | SoonKeat_Tan@pmail.ntu.edu.sg | Physical and Numerical modelling of coastal, hydraulics and hydrological processes; Water Resources Engineering |
| Tang Chuyang | CYTANG@ntu.edu.sg | Membrane technology (synthesis, characterization, fouling, and emerging contaminants removal); advanced physical and chemical methods for persistent contaminants removal |
| Tay Joo Hwa | cjhtay@ntu.edu.sg | Wastes recycling and reuse; Hazardous waste management; Biotechnological applications on wastewater treatment; Membrane filtration technology; Advanced oxidation processes technology; Sludge management |
| Timothy John White | tjwhite@ntu.edu.sg | Structural characterization |
| Volodymyr Ivanov | CVIvanov@ntu.edu.sg | Environmental microbiology and biotechnology; Environmental remediation; Stormwater treatment; Wastewater treatment; |
| Wang Jing-Yuan | jywang@ntu.edu.sg | Waste to energy; Waste to materials, Biofuel development, Bioremediation, Landfill restoration. |
| Wong Sai Wai, Tommy | cswwong@ntu.edu.sg | Urban storm drainage, Flood hydrology; Hydrologic computer modeling |
| Yan Rong | ryan@ntu.edu.sg | biomass energy, waste to energy, combustion science and engineering, clean energy for cleaner air, air toxic abatement technologies, and environmental impact assessment |
| Yang Yaowen | CYWYang@ntu.edu.sg | Evolutionary computation; structural health monitoring; smart materials and structures; molecular dynamics and multi-scale modeling. |
| Wang Rong | rwang@ntu.edu.sg | Development of various novel membranes; Simulation and optimization of various membrane processes; Mass transfer and computational fluid dynamics |

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