

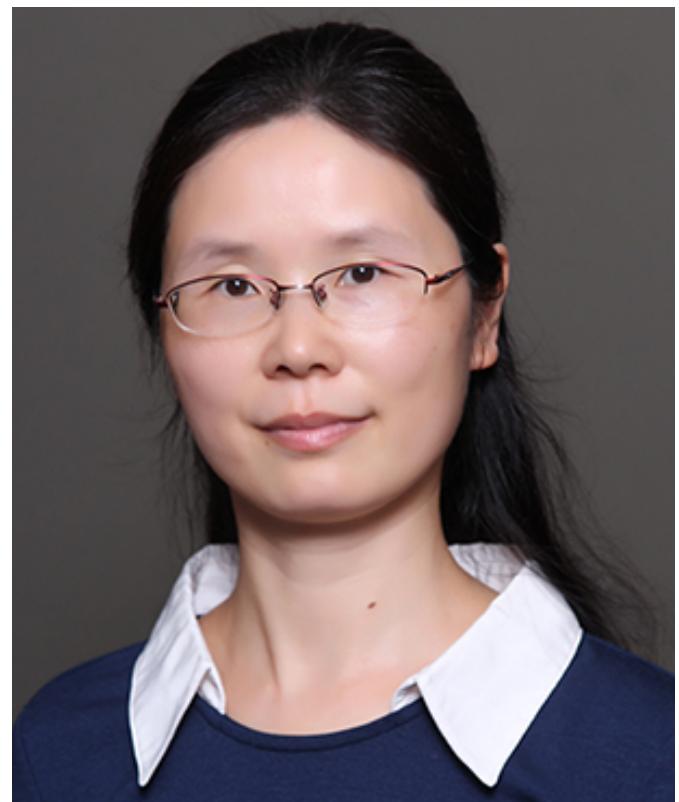
The EWT industry technological needs are both diverse and complex. To meet these needs, the Centre has set up a dedicated team of full-time R&D Engineers/Scientists with multi-disciplinary expertise in Environmental Science & Engineering, Microbiology, Biotechnology, Chemical & Material Engineering, Energy Efficiency & Management and Mechanical Engineering.

Administration

**Dr Jason Tang**

Area of Expertise

- Technology Development
- Method Development
- Molecular Biology
- Microbiology

**Dr Yan Xiaoli**

Area of expertise

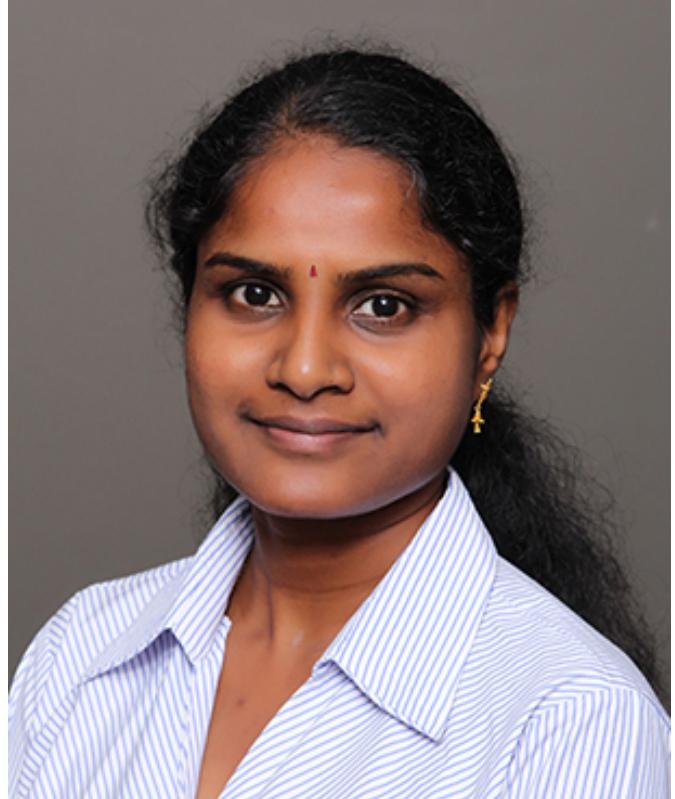
- Environmental Chemistry
- Process Design for Water Reclamation and Treatment
- Development of Environment Functional Materials
- Advanced Oxidation Processes for Water and Air Purification

Membrane Technology

**Dr Goh Shuwen**

Area of Expertise

- Membrane processes for wastewater treatment
- Non-pressurized processes (eg. MD, extractive membrane (EM))
- Novel MBR systems (MD, EM), biofouling control and analysis
- Membrane fouling characterization and analysis

**Dr Bhuvana Sowrirajalu**

Area of Expertise

- Organic and Analytical Chemistry
- Polymeric Material Synthesis and Membrane Fabrication
- Material Analysis and Characterisation
- Membrane Surface Modification
- Nanocomposite and Nanomaterial Synthesis

**Dr Loh Chun Heng**

Area of Expertise

- Membrane Development for Environmental Applications
- Polymeric membrane fabrication and characterizations
- Advanced Osmotic Processes including FO & PRO
- Membrane processes including MF, UF & MD

**Ms Zhao Yuan Yuan**

Area of Expertise

- UF/NF/RO applications
- Chemistry analysis and water quality monitoring
- Membrane Surface modification
- Membrane Characterization
- Membrane cleaning and fouling control
- Laboratory management



Water Technology

Area of Expertise



Mr Gerard Tee

Area of Expertise

- Water & Wastewater Treatment Technology



Mr Maung Tin Win

Area of Expertise

- Water and Wastewater Treatment
- Industrial Solvent Recycling

- MBR, UF, MF Filtration System Design
- Process Instrumentation
- Membrane Product Characterisation & Design
- Applied Membrane Surface Modification

- Analytical Chemistry

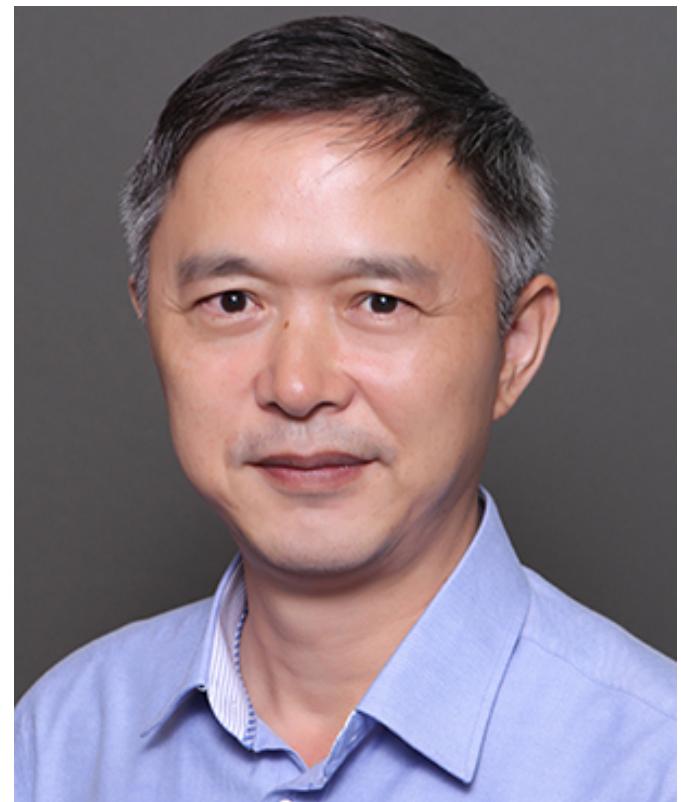
Energy Efficiency Technology



Mr Sam Lam

Area of Expertise

- Air-Conditioning
- Instrumentation and Control
- Energy Management
- Building Information Modeling
- Building Performance Simulation
- Green Mark Professional



Dr Jin Weixin

Area of Expertise

- Thermal and Fluids Engineering
- Membrane Technology and Applications
- Water and Wastewater Treatment Technology and System Design
- Thermal and Membrane Seawater Desalination

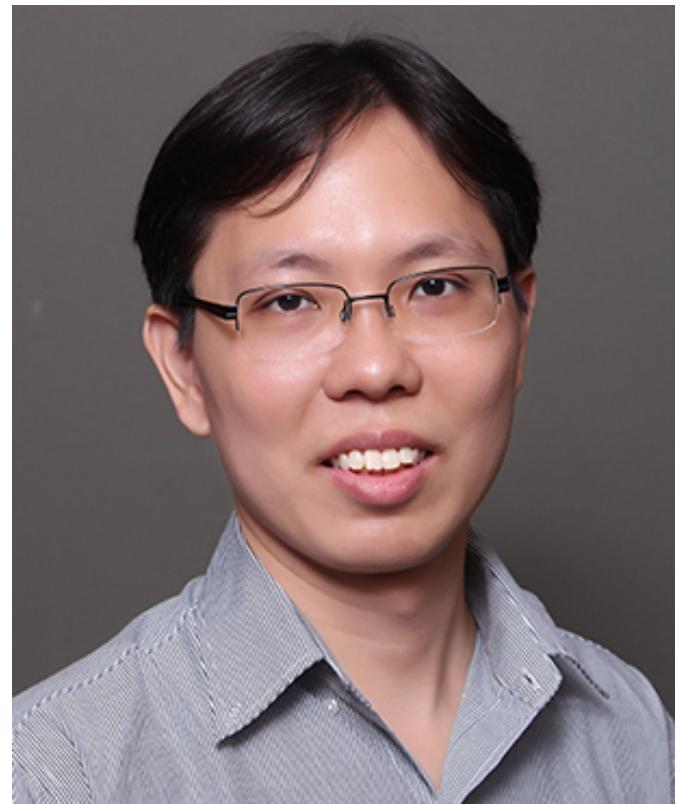
- Thermal Analysis and CFD Simulation



Mr Liang Yin Chun

Area of Expertise

- Software Design and Development
- ASP.NET, C#, C++ Programming
- .Net Framework
- MS SQL
- PICBASIC Programming on Microchip



Mr Herman Tan

Area of Expertise

- Software Design and Development
- C/C++, C# Programming
- .NET Framework
- UML, RTOS



Mr Goh Yong Wah

Area of Expertise



Mr William Ho

Area of Expertise



Mr Chewy Cheung

Area of Expertise

- High Vacuum Systems



Mr Patiwat Phochum

Area of Expertise

- Refrigeration

- Equipment Design & Modification
- Electronics & Mechanical
- Gas Pipe Line Design & Fabrication

Expertise

- Energy and Thermofluids Engineering
- Food Manufacturing Plant Layout
- Drying, Air-Conditioning
- Chiller Plant Energy Optimization

Sustainable Materials Technology



Mr S Sambasivam

Area of Expertise

- Indoor Air Quality
- Supercritical Fluid Extractions
- Wastes to value add products - Plastics, glass, oil sludges Polymer-based coatings
- Advanced characterization techniques of materials Prototyping, testing and evaluations



Dr Palaniswamy Suresh Kumar

Area of Expertise

- Synthesis and Controlled Growth of ID Nanomaterials
- Nanostructured Thin Films
- Electrospun Nanofibers for Energy Harvesting and Storage Devices
- Smart Coatings and Photocatalysis



Dr Tai Ming Hang

Area of Expertise

- Porous Material Synthesis and Surface Modification
- Electrospun Nanofibers for Oily Water Treatment
- Carbonaceous Nanomaterials for Water Purification and Agriculture

Contact Us

📍 535 Clementi Road
Singapore 599489

📞 6466 6555

✉️ asknp@np.edu.sg

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