

Academic Staff



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Integrated biodiesel production,
methyl ester and ethyl ester,
Small scale palm oil mill



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Energy and drying technology for agriculture and food,
Technology and production ethanol from biomass



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Biomaterials: production of artificial bone and tooth from
biopolymer and bio-ceramic composites of inorganic
phosphate, Recycle of waste from rubber wood
furnishing factories for production of boron-calcium
fertilizer



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Catalytic pyrolysis of biomass for biogasoline,
Catalyst development for biodiesel production; methyl
and ethyl ester,
Application of adhesive from epoxized natural rubber



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Bio-gas cleaning, Environmental treatment technologies,
Wood vinegar distillation



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Alternative energy from algae and biomass,
Agarwood, Environmental control



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Extraction of agricultural product,
Biodiesel production and technology,
Process simulation and control



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Extraction of minor components from CPO,
Renewable energy i.e. biomass, biogas,
Value-added natural rubber product,
Modeling on supercritical fluid adsorption



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Vacuum frying and vacuum drying of fruits and
vegetables, Extraction of prebiotics,
CO₂ capture



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Renewable energy,
Process control design / process optimization,
Process simulation & modeling



Asst. Prof. Dr. Suratsawadee Kungsanant
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Surfactant-based Separation Processes,
Renewable Energy (Biogas and Biodiesel)



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Renewable Energy,
Biodiesel production/technology,
Ethanol production/technology

Research Area

Alternative / Renewable Energy

- High quality Bio-Diesel from palm oil and alternative crops: micro-algae
- Renewable energy: biomass, biogas
- Wind energy, solar energy, and fuel cells

Agricultural Products and Food Technology

- Food processing techniques and equipment in order to minimize loss and maximize the quality of the products.
- Drying equipment, frying equipment, and hybrid methods from solar drying to microwave drying and vacuum drying.
- Extraction of prebiotics and aromatic oils from wood vinegar and Agar wood.

Environmental Technology

- Technology for the treatments of wastewater and air pollutants from local industries such as the rubber, rubber-wood, seafood, palm oil, and gas separation facilities.
- International issues such as CO₂ capture and minimizing industrial admission.