



# Joint Appita and IChemE Technical Meeting

- DATE: Thursday 25<sup>th</sup> July 2024
- VENUE: Copthorne Hotel, Fenton Street, Rotorua
- 6:00pm Registration and Drinks (cash bar) House Bar
- 6:30 Buffet Dinner, Restaurant

# TECHNICAL PROGRAMME – REDWOOD 2

# 7:30 "Design Verification of Critical Controls in Process Plants" Charles Bourdonneau, Senior Associate – Process Safety Engineer, Wood Beca Ltd.

Safely operating a process does not only rely on the identification of inherent hazards to the process and their control, but also on the assurance we have that those controls are performing the way they should. This is where the design verification is an important step for demonstrating the safety of your plant.

#### 8:00 "Spherelose – a Journey Towards Sustainable Cellulose-Based Surfactants" Jack Chen, Senior Lecturer in Chemistry, AUT; Co-Founder of Spherelose.

Spherelose® is a cellulose-based surfactant platform currently being developed at Auckland University of Technology. Inspired by New Zealand's sustainable forestry industry, Spherelose® can be made from the off-cuts of sustainably harvested timber. By combining the cellulose in wood pulp with plant-based oils, the surface-active properties of the resulting particles can be tuned to serve a range of surfactant applications. This technology is currently in the process of translating from lab scale to pilot scale, and this talk will detail the journey from academic research to a spin-out company and eventual commercialisation.

# 8:30 "Seaweed-derived Nanocellulose: Unlocking Value from a Sustainable Resource"

Rob Whitton, Leader, Materials, Engineering and Manufacturing, Scion.

Scion has developed a green process to produce nanocellulose hydrogel from seaweed. Partnering with Agrisea, Scion is currently designing a process plant that will produce hydrogel at scale at Agrisea's facility, utilising seaweed that is a byproduct from Agrisea's other production processes. Scion's research aims to identify high-value applications for this sustainable material.

COST:Members (Appita & IChemE): \$55Non-members: \$65Payment can be direct credited to ANZ Account - Appita NZ Section - 06 0413 0178800 00<br/>or paid on the night by cash or credit card.<br/>(NB: A credit card surcharge of 3% will apply on payments by American Express)

### ORGANI SERS:

Shiraz Khashim, Wood Becashiraz.khashim@woodbeca.comMartin Atkins, University of Waikatomartin.atkins@waikato.ac.nz

Please register by Monday 22nd July 2024, by contacting Karen Clark, Appita Email : appita.nz@xtra.co.nz Phone : 027 231 6541

(As the hotel now charges for the final number given. People who register for technical meetings, but fail to attend on the night will be charged. Please advise Karen Clark as early as possible if you can no longer attend.)