

17 AUGUST 2018

AUSTRALIAN NEW SPEAKERS' RUN OFF COMPETITION

Come along and support our New Speakers!

The **Appita New Speakers Run-off Competition** will be held at **BioPRIA** on the **Friday 17 August 2018, 9:00 am - 1:00 pm**. This year we have six young professionals who will compete for the right to represent Australia at the 2018 Pan Pacific Fibre Value Chain conference in Rotorua New Zealand, 4 – 6 December 2018.

Padraic Guiney – Australian Paper
'Improving Operational Awareness with PI Dashboard'

This project involved developing a PI systems summary page, designed to focus the wastewater operator's attention when environmental and chemical parameters are outside normal range. When an issue arises operators have access to a range of resources to assist troubleshooting and given an action to address the problem. The presentation will discuss how the page was developed and the challenges associated with creation and implementation. It will discuss the features utilised and the practical application these provide. Additionally the advantages and disadvantages of this approach and other situations where this could be implemented will be discussed.

Michael Long – Orora
'Transport Simulation, What's New?'

Goods such as food, electronics and pharmaceuticals are exposed to a vast number of hazards within the distribution network, including; environmental conditioning, shocks, vibration and compressive loads. Testing must be undertaken to ensure protective packaging, such as a corrugated fibreboard box, is fit-for-purpose without being too robust. Optimisation of protective packaging, through the appropriate testing, can reduce the amount packaging material used and its economic, environmental and social impacts. This presentation will cover the current state of laboratory-based transport simulation with impetus on multi-axis vibration and the increasing roll of e-commerce.

Maisha Maliha – BioPRIA
'Cellulose-based Bismuth Phosphinate Composites as Antibacterial food packaging Material'

Food packaging plays a very important role in ensuring food safety, food quality and improving the shelf life of food. Active packaging material with antibacterial properties can meet these requirements. However, the antimicrobial agents in the commercially available active packaging materials have raised concerns relating to toxicity and risks of resistance development. A new non-toxic bismuth-based antimicrobial agent has been investigated in this study. The organobismuth complex-nanocellulose composites were prepared by spraying technique. In this presentation, the antibacterial and water vapor permeability of the composites and the arrangement of the particles within the polymer matrix will be discussed, and thereby the potential of bismuth-nanocellulose composite as food packaging material will be explained."

Hamish McCracken – Australian Paper
'Reducing Downtime of a Lime Kiln by Cardox Cleaning'

The Lime Kiln at Australian Paper has been susceptible to kiln rings for a number of years, with investigations showing different root causes. In 2017 Australian Paper decided to install a cleaning system to allow the targeted removal of kiln rings by using the Cardox system. By targeting a specific kiln ring area with a CO2 release the ring is compromised and allowed to fall out during normal operations.

Typically, the lost production from completing an internal clean is around three days. The use of the Cardox system typically results in a downtime of around 12 hours and is providing a significant short-term improvement to the availability of the Lime Kiln.

George Zimmermann – Visy
'Paper Machine Hoods - Back to Basics'

A site wide energy audit at Visy Paper 8 suggested hood ventilation system inefficiencies were inflating steam usage. Consequent investigations determined the site had reasonable supply air temperatures and no major moisture leaks into the supply air, but there was opportunity for improvement in air flow management. Supply air was increased by re-opening air distribution boxes, which reduced cold, entrained air. Then closing all doors, sealing up the hood and adjusting system ducting helped capture exhaust air from across the whole hood. For minimal cost and minor operational changes, steam usage was seen to drop by 2-3%, reducing our tonne of steam per tonne of paper requirements.

Peter Moon – Visy
'Alternate Reductive Bleaching: Practical Case Studies'

Severe shortage of sodium dithionate manufacturing capacity out of China in Q4 2017, resulted in major risk to pulp and paper mills using sodium hydrogen sulphite (hydros) as traditional reductive bleaching agent. This forced the mill to review feasibility studies in alternate bleaching technologies to replace or augment sodium hydro sulphite. This presentation will cover the trials conducted at Visy and what the outcomes revealed.

Take the opportunity to catch up with industry friends and colleagues, whilst supporting our young professionals. This is an important event for them, so would love to see you there.

CLICK HERE TO REGISTER or for further information please contact:

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