

**Appita**  
presents

# THE FIBRE VALUE CHAIN

CREATING OUR BIO-FUTURE

**ANNUAL CONFERENCE**

**DEC 10<sup>th</sup> - 12<sup>th</sup> 2019**

MELBOURNE CONVENTION  
EXHIBITION CENTRE

## DAY 1

TUESDAY 10<sup>th</sup> DEC

### Plenary

Guest Speakers & Panel  
Discussion: A forest based  
circular bioeconomy

### BioFuture Forum

Manufacturing Excellence  
Symposium

Pulp & Paper Forum

Welcome Function

## DAY 2

WEDNESDAY 11<sup>th</sup> DEC

### Plenary

Guest Speakers & Panel  
Discussion: Emerging challenges  
for recycling in Australia & New  
Zealand

### BioFuture Forum

Markets Forum

Pulp & Paper Forum

New Speaker  
Competition Finals

Networking & Happy Hour

## DAY 3

THURSDAY 12<sup>th</sup> DEC

### Plenary

Guest Speakers & Panel  
Discussion: The role of waste to  
energy and material recycling in  
the circular economy

### BioFuture Forum

Sustainable Packaging Forum

Pulp & Paper Forum

Mill Managers Forum

Awards Dinner  
Luna Park, St Kilda



# BIO-FUTURE GUEST SPEAKERS



## **RESPONSIBLE FORESTRY TO SUPPORT CIRCULAR BIOECONOMY**

*Aida Greenbury*  
Board of Advisors

**WORLD BIOECONOMY FORUM**



## **RECYCLING AND RECOVERED PAPER CHALLENGES AND OPPORTUNITIES IN THE EMERGING CIRCULAR ECONOMY**

*Dr. Anthony Wilkins*  
Head of Environment

**NEWS CORP AUSTRALIA**



## **EMERGING ISSUES FOR RECYCLING AND RECOVERED PAPER: CHALLENGES AND OPPORTUNITIES**

*Gayle Sloan*  
Chief Executive Officer

**WASTE MANAGEMENT & RESOURCE RECOVERY ASSOCIATION OF AUSTRALIA**



## **TOWARDS A CIRCULAR ECONOMY: CONVERTING WASTE AND BIOMASS TO ENERGY PRODUCTS**

*Dr. Daniel Robert*  
Director, Hydrogen Energy Future Science Platform

**CSIRO, AUSTRALIA**



## **DRIVERS AND CHALLENGES OF BIO-BASED ECONOMY IN EUROPE**

*Heli Kangas*  
Dr. Sc. (Tech), Research Team Leader, Project Manager, Biomass Processing & Products

**VTT, FINLAND**



## **CHALLENGES AND OPPORTUNITIES OF THE PAPER PRODUCT IN THE PLASTIC ERA**

*Prof. Hak Lae Lee*  
Professor

**SEOUL UNIVERSITY, KOREA**



## **FROM KGS TO TONNES: GETTING TO MARKET IN THE BIOECONOMY**

*Tony Duncan*  
Cofounder

**CIRCA GROUP LTD, AUSTRALIA**



## **THE CAT-HTR HYDROTHERMAL UPGRADING PLATFORM AS A SOLUTION FOR WASTE BIOMASS AND WASTE PLASTIC**

*Dr William Rowlands*  
Chief Scientist

**LICELLA HOLDINGS, AUSTRALIA**



## **LEADING THE WAY TO CIRCULAR ECONOMY AND SUSTAINABLE ENERGY IN VICTORIA: AUSTRALIAN PAPER & SUEZ MARYVALE ENERGY FROM WASTE DEVELOPMENT**

*Carol Ng*  
Project Manager

**SUEZ RECYCLING & RECOVERY, AUSTRALIA & NEW ZEALAND**

**REGISTER ONLINE AT**  
**[HTTPS://APPITA.COM/FIBRE-VALUE-CHAIN-2019](https://appita.com/fibre-value-chain-2019)**

For more information about the event, contact Appita, +61 3 9467 9722 or [admin@appita.com](mailto:admin@appita.com)



08:30 – 08:40	<b>CONFERENCE WELCOME - Stephen Parkinson, Appita President</b>
08:40 – 09:20	<b>OPENING ADDRESS</b> <b>THE CIRCULAR ECONOMY: A GLOBAL POWERHOUSE OF INNOVATION</b> <i>Debbie O’Byrne, Director, Circular Business Solutions, New Zealand</i>
09:20 – 10:00	<b>RESPONSIBLE FORESTRY TO SUPPORT CIRCULAR BIOECONOMY</b> <i>Aida Greenbury, Board of Advisors, The Bioeconomy Forum, Australia</i>
10:00 – 10:30	<b>PANEL DISCUSSION – A FOREST BASED CIRCULAR BIOECONOMY – VISION, OPPORUNITIES AND CHALLENGES</b> <b>Moderator: Tim Woods, Industry Edge</b> <i>Mark Banaszak Holl, Monash University, Aida Greenbury, The Bioeconomy Forum, Debbie O’Byrne, Circular Business Solutions, Heli Kangas, VTT</i>

**MORNING TEA**

<b>BIOFUTURE FORUM SPONSORED BY AUSTRALIAN PAPER - BIOPATHWAYS</b>	<b>MANUFACTURING EXCELLENCE SYMPOSIUM SPONSORED BY VALMET</b>	<b>PULP &amp; PAPER FORUM SPONSORED BY GAW</b>
<b>ROOM 106</b>	<b>ROOM 105</b>	<b>ROOM 104</b>
<i>Chair: Dr Nafty Vanderhoeck, Consultant</i>	<i>Chair: Howard Burvill, Consultant</i>	<i>Chair: Murray Ellis, Australian Paper</i>
<b>11:00 – 11:10</b>	<b>11:00 – 11:10</b>	<b>11:00 – 11:10</b>
<b>SPONSORS ADDRESS</b> <i>Peter Williams, Chief Executive Officer, Australian Paper, Australia</i>	<b>SPONSORS ADDRESS</b> <i>Jaegen Peet, Director, Australia &amp; New Zealand, Valmet</i>	<b>SPONSORS ADDRESS</b> <i>Raj Venugopal, Regional Director Asia Pacific, GAW Technologies GmbH, Malaysia</i>
<b>11:10 – 11:40</b>	<b>11:10 – 11:40</b>	<b>11:10 – 11:40</b>
<b>DEVELOPMENT OF A NEW TRAINING AND RESEARCH FRAMEWORK FOR BIO-MANUFACTURING IN A REGIONAL AREA</b> <i>Mark Potter, Project Director, WTIF Biopathways Partnership Project, Australian Paper, Australia</i>	<b>HOW TO STAY COMPETITIVE THROUGH SERVICE AGREEMENTS IN PULP AND PAPER INDUSTRY</b> <i>Petri Lakka, Vice President, Services Development, Valmet, Finland</i>	<b>INNOVATIVE ENZYMATIC STARCH CONVERSION SYSTEM</b> <i>Raj Venugopal, Regional Director Asia Pacific, GAW Technologies GmbH, Malaysia</i>
<b>11:40 – 12:10</b>	<b>11:40 – 12:10</b>	<b>11:40 – 12:10</b>
<b>STRUCTURING APPLIED BIOMANUFACTURING LEARNING TO MAXIMISE CROSS-SECTORIAL APPLICABILITY</b> <i>Emily Scholes, CEO, EnviroMicroBio, Australia</i>	<b>LEAN IMPLEMENTATION – AM I REALLY READY AND WHERE DO I START?</b> <i>Victor Andjelkovic, Operational Excellence Manager, Bulla Dairy Foods, Australia</i>	<b>DOSING OF WET END ADDITIVES IN PREMIXED PAIRS AND GROUPS IN A FLASH MIXING REACTOR CHALLENGES OLD RULES WITH GREAT ECONOMICAL BENEFITS</b> <i>Urpo Launonen, Managing Director, UJL Pty Ltd, Australia</i>
<b>12:10 – 12:40</b>	<b>12:10 – 12:40</b>	<b>12:10 – 12:40</b>
<b>TRANSITIONING REGIONAL AUSTRALIA TO CIRCULAR BIOECONOMY: A CASE FOR THE LATROBE VALLEY</b> <i>Adeel Ghayur, Postdoc Fellow Biomanufacturing School of Science, Engineering &amp; IT Federation University, Australia</i>	<b>INDUSTRY 4.0 HYPE OR REALITY</b> <i>John Broadbent, Founder, RealisePotential, Australia</i>	<b>WHY AND WHAT DO WHEN WHITE AKD DEPOSITS OCCUR</b> <i>Prof Hak Lae Lee, Professor, Seoul National University, Korea</i>

**LUNCH**

<i>Chair: Prof Warren Batchelor, BioPRIA</i>	<i>Chair: Victor Caune, Best Practice Network</i>	<i>Chair: Stephen Keyte, OJI Fibre Solutions</i>
<b>1:30 – 2:00</b>	<b>1:30 – 2:00</b>	<b>1:30 – 2:00</b>
<b>PAPER AND CELLULOSE FOR BLOOD DIAGNOSTICS</b> <i>Prof Gil Garnier, Director, Bioresource Processing Research Institute of Australia (BioPRIA) Monash University, Australia</i>	<b>STRATEGIC LEADERSHIP – DRIVING TRANSFORMATIONAL CHANGE THROUGH EMPOWERING PEOPLE</b> <i>Natascia Girardi, Organisational Change Leader, Blue Bike Solutions, Australia</i>	<b>RETENTION – DRAINAGE – FORMATION</b> <i>Ravi Shankar Joshi, General Manager – Sales &amp; Technology, Ivax Paper Chemicals Limited, India</i>
<b>2:00 – 2:30</b>	<b>2:00 – 2:30</b>	<b>2:00 – 2:30</b>
<b>RAPID PAPER DIAGNOSTIC FOR PLASMA FIBRINOGEN CONCENTRATION</b> <i>Marek Bialkower, PhD Student, Bioresource Processing Institute of Australia (BioPRIA), Australia</i>	<b>TACKLING CHALLENGING GOAL THROUGH TEAMWORK AND LEAN THINKING</b> <i>Jim Glover, Group Manager – Continuous Improvement, Operations Excellence, Visy Industries, Victoria, Australia</i>	<b>HOW MUCH IMPROVEMENT IS POSSIBLE IN PAPER PERFORMANCE AND CORRUGATED PACKAGING?</b> <i>Russell Allan, Director, Aurelia Group, Australia</i>
<b>2:30 – 3:00</b>	<b>2:30 – 3:00</b>	<b>2:30 – 3:00</b>
<b>RADIAL WICKING IN PAPER FOR BIO-DIAGNOSTICS</b> <i>Michael Hertaeg, PhD Student, Bioresource Processing Institute of Australia (BioPRIA), Monash University, Australia</i>	<b>ESSENTIAL LEAN BEHAVIOURS FOR MANAGEMENT</b> <i>Andy Kelsall, Managing Director, Complete Lean Solutions Pty Ltd, Australia</i>	<b>STRENGTH RECOVERY IN RECYCLE FURNISHES</b> <i>Doug McLean, District Account Manager, Nalco Water – An Ecolab Company, Australia</i>

**AFTERNOON TEA**

<i>Chair: Dr Karen Stack, Appita</i>	<i>Chair: Russell Allan, Aurelia Group</i>	<i>Chair: Terry McDonald, Visy P &amp; P</i>
<b>3:30 – 4:00</b>	<b>3:30 – 4:00</b>	<b>3:30 – 4:00</b>
<b>CHARACTERISING NOVEL CELLULOSIC MATERIALS BY NEUTRON AND SYNCHROTRON BASED METHODS</b> <i>Vikram Singh Raghuvanshi, Bioresource Processing Research Institute of Australia (BioPRIA), Monash University, Australia</i>	<b>CREATING VALUE THROUGH PROCESS SAFETY</b> <i>Andrew Wilson, Principal DuPont Sustainable Solutions, Australia &amp; New Zealand</i>	<b>FOCUSING ON QUALITY AT M2 PAPER MACHINE</b> <i>Anthony Beckett, Improvement Manager M1/M2/M3, Australian Paper, Australia</i>
<b>4:00 – 4:30</b>	<b>4:00 – 4:30</b>	<b>4:00 – 4:30</b>
<b>HIGH PERFORMANCE PRODUCTS CREATED THROUGH MICROPATTERNED NANOCELLULOSE MATERIALS</b> <i>Christine Browne, Post Doc, Bioresource Processing Research Institute of Australia (BioPRIA), Monash University, Australia</i>	<b>ADVANCED ANALYTICS IMPROVE MILL PERFORMANCE AND RELIABILITY</b> <i>Jari Almi, Vice President, Industrial Internet, Valmet, Finland</i>	<b>SAVE YOUR FIBERS, KEEP THE STRENGTH – SHOE PRESS AND SIZING TECHNOLOGY IN YOUR TOOLBOX</b> <i>Tomasz Radziszewski, Capital Sales Manager, PMP – Paper Machinery Producer, Poland</i>
<b>4:30 – 5:00</b>	<b>4:30 – 5:00</b>	<b>4:30 – 5:00</b>
<b>BISMUTH-BASED ANTIBACTERIAL FILTER PAPER FOR DRINKING WATER PURIFICATION</b> <i>Maisha Maliha, PhD Student, Bioresource Processing Institute of Australia (BioPRIA), Monash University, Australia</i>	<b>USING ADVANCED ANALYTICS TO COMPLEMENT TRADITIONAL PITCH MANAGEMENT STRATEGIES AT THE ALBURY MILL</b> <i>Matthew O’Connor, Technical Coordinator &amp; Lab Manager, Norske Skog Paper Mills (Australia) Ltd., Australia</i>	<b>LINERBOARD PAPER MACHINE FORMING TABLE OPTIMIZATION</b> <i>Steven Prokopiwskyi, PM Process Engineer, Australian Paper, Australia</i>

**WELCOME RECEPTION**

5:00 pm – 6:30 pm

SPONSORED BY BIOPRIA “Celebrating 30 Years”

08:30 – 08:40	<b>CHAIRS WELCOME - Tim Woods, IndustryEdge</b>
08:40 – 09:20	<b>RECYCLING AND RECOVERED PAPER CHALLENGES AND OPPORTUNITIES IN THE EMERGING CIRCULAR ECONOMY</b> <i>Dr Anthony Wilkins, Executive Director Environment, NewsMediaWorks</i>
09:20 – 10:00	<b>EMERGING ISSUES FOR RECYCLING AND RECOVERED PAPER – CHALLENGES AND OPPORTUNITIES</b> <i>Gayle Sloan, Chief Executive Officer, Waste Management &amp; Resource Recovery Association of Australia (WMRRA)</i>
10:00 – 10:30	<b>PANEL DISCUSSION: EMERGING CHALLENGES FOR RECYCLING IN AUSTRALIA &amp; NEW ZEALAND - Moderator: Tim Woods, IndustryEdge</b> <i>Dr Anthony Wilkins, NewsMediaWorks, Gayle Sloan, WMRRA, Darren Thorpe, Australian Paper Recovery, Dr William Rowlands, Licella Holdings</i>

**MORNING TEA**

BIOFUTURE FORUM SPONSORED BY AUSTRALIAN PAPER - BIOPATHWAYS	MARKET FORUM SPONSORED BY INDUSTRYEDGE	PULP & PAPER FORUM SPONSORED BY GAW
ROOM 106	ROOM 105	ROOM 104
<i>Chair: Stephen Parkinson, Appita</i>	<i>Moderator: Tim Woods, IndustryEdge</i>	<i>Chair: Deanne Heier, Norske Skog</i>
<b>11:00 – 11:30</b>	<b>11:00 – 11:10</b>	<b>11:00 – 11:30</b>
<b>FROM KGS TO TONNES: GETTING TO MARKET IN THE BIOECONOMY</b> <i>Tony Duncan, CEO, Circa Group Ltd, Australia</i>	<b>WELCOME &amp; INTRODUCTION</b> <i>Tim Woods, Director, IndustryEdge, Australia</i>	<b>NECESSITY IS THE MOTHER OF INVENTION – FORWARD THINKING CONCEPTS ON HOW TO BUILD A PM FOR THE FUTURE</b> <i>Maja Mejsner, Vice President Business Development &amp; Marketing, PMP – Paper Machinery Producer, Poland</i>
<b>11:30 – 12:00</b>	<b>11:10 – 11:50</b>	<b>11:30 – 12:00</b>
<b>THE CAT-HTR HYDROTHERMAL UPGRADING PLATFORM AS A SOLUTION FOR WASTE BIOMASS AND WASTE PLASTIC</b> <i>Dr William Rowlands, Chief Scientist, Licella Holdings, Australia</i>	<b>RECOVERED FIBRE MARKETS IN TURMOIL - THE LOCAL OPPORTUNITIES</b> <i>Steve Balmforth, Principal, Balmforth &amp; Associates, Australia</i>	<b>VALMET FS5 UPGRADED TO UHD IMAGE QUALITY - NEW OPPORTUNITIES FOR LAB ANALYSIS OF FIBRES, FINES AND FIBRILS</b> <i>Timo Riippa, Sales Manager Australia, Valmet Measurement Products, Australia</i>
<b>12:00 – 12:30</b>	<b>11:50 – 12:30</b>	<b>12:00 – 12:30</b>
<b>CHALLENGES AND OPPORTUNITIES OF THE PAPER PRODUCT IN THE PLASTIC ERA</b> <i>Professor Hak Lae Lee, Professor, Korea University, Korea</i>	<b>STRATEGIC DIRECTIONS PANEL - moderated by Tim Woods, an open discussion on the major market issues.</b>	<b>UNIQUE SALES AND OPERATIONS PLANNING SOLUTION FOR PAPER AND PACKAGING INDUSTRY</b> <i>Inigo Bridle, Director, I-Plan Europe, United Kingdom</i>

**LUNCH**

<i>Chair: Prof Gil Garnier, BioPRIA</i>	<i>Moderator: Tim Woods, IndustryEdge</i>	<i>Chair: Mathew O'Connor, Norske Skog</i>
<b>1:30 – 2:00</b>	<b>1:30 – 2:00</b>	<b>1:30 – 2:00</b>
<b>STRATEGIES FOR TRANSITIONING TO THE NEW PLASTICS ECONOMY</b> <i>Bronwyn Laycock, Associate Professor School of Chemical Engineering Faculty of Engineering, Architecture and Information Technology, Australia</i>	<b>AUSTRALIAN PAPER: SUSTAINABLE GROWTH FOR THE NEXT GENERATION</b> <i>Peter Williams, Chief Operating Officer, Australian Paper, Australia</i>	<b>DEBOTTLENECKING A HORIZONTAL BELT STYLE WASHER</b> <i>Shawn Chen, Process Engineer, Australian Paper, Australia</i>
<b>2:00 – 2:30</b>	<b>2:00 – 2:30</b>	<b>2:00 – 2:30</b>
<b>LIGNOCELLULOSIC BIOMASS HYDROTHERMAL LIQUEFACTION TO GENERATE FEEDSTOCK FOR POLYHYDROXYALKANOATE PRODUCTION</b> <i>Tianlong Zhang, School of Chemical Engineering, The University of Queensland, Australia</i>	<b>HOW SPICERS HAS RESPONDED TO CHANGING PAPER MARKETS</b> <i>David Martin, Chief Executive Officer, Spicers Ltd, Australia</i>	<b>M2 PRESSING CONCERNS</b> <i>Rachael Green, Mechanical Engineer, Australian Paper Maryvale Mill, Australia</i>
<b>2:30 – 3:00</b>	<b>2:30 – 3:00</b>	<b>2:30 – 3:00</b>
<b>NANOCELLULOSE RECYCLABILITY</b> <i>Professor Warren Batchelor, Deputy Director, Bioresource Processing Institute of Australia (BioPRIA), Australia</i>	<b>THE PIVOT TO PACKAGING AND IMPLICATIONS FOR THE REGION</b> <i>Tim Woods, Director, IndustryEdge, Australia</i>	<b>IMPROVING RELIABILITY AND PROCESS EFFICIENCY THROUGH CHEMICAL RECOVERY CYCLE CAPITAL INVESTMENT</b> <i>Murray Ellis, Process Technology Manager – Recovery, Australian Paper, Australia</i>

**AFTERNOON TEA**

	NEW SPEAKERS COMPETITION SPONSORED BY IMERYS	
<i>Chair: Prof Warren Batchelor, BioPRIA</i>	<i>Chair: Russell Allan, Aurelia Group</i>	<i>Chair: Piers Pettit, Enviroprocess</i>
<b>3:30 – 4:00</b>	<b>3:30 – 3:40</b>	<b>3:30 – 4:00</b>
<b>POTENTIAL OF NANOCELLULOSE-BASED SUPERABSORBENT HYDROGEL IN AGRICULTURE</b> <i>Ruth Barajas Ledesma, PhD Student, Bioresource Processing Institute of Australia (BioPRIA), Australia</i>	<b>SPONSORS ADDRESS</b> <i>Mike Fowler, Imerys Minerals Australia, Sales Manager Australia &amp; New Zealand</i>	<b>CHANGES TO VICTORIA'S ENVIRONMENTAL LEGISLATION</b> <i>Lauren Beckett, Environment Manager, Australian Paper, Maryvale Mill, Australia</i>
<b>4:00 – 4:30</b>	<b>3:40 – 4:10</b>	<b>4:00 – 4:30</b>
<b>MESOPOROUS SILICA- NANOFIBRILLATED CELLULOSE COMPOSITES FOR HIGH PERFORMANCE DEPTH FILTRATION</b> <i>Syedeh Simin Miri, PhD Student, Bioresource Processing Institute of Australia (BioPRIA), Australia</i>	<b>PAPER MACHINE 2 SAVEALL IMPROVEMENT AND OPTIMIZATION</b> <i>Rudrashish Bandyopadhyay, Graduate Process Engineer, Australian Paper, Australia</i>	<b>BOILER BIOGAS INTEGRATION AT VISY PAPER 3&amp;6</b> <i>Madeleine Neville, Graduate Project Engineer, Visy Paper, Australia</i>
<b>4:30 – 5:00</b>	<b>4:10 – 4:40</b>	<b>4:30 – 5:00</b>
<b>PHYSICAL AND CHEMICAL CROSSLINKED NANOCELLULOSE FOAM: STRUCTURE ANALYSIS AND SWELLING PHENOMENON</b> <i>Laila Hossain, PhD Student, Bioresource Processing Institute of Australia (BioPRIA), Australia</i>	<b>FIBRELINE MASS BALANCE FOR PRODUCTION RECONCILIATION</b> <i>Ryan Brown, Graduate Process Engineer, Oji Fibre Solutions, New Zealand</i>	<b>BACK TO BASICS WITH FOUL GAS INCINERATION</b> <i>Hamish McCracken, Senior Process Technology Engineer, Australian Paper, Australia</i>

**AFTERSSESSION NETWORKING**

5:00 pm to 6:00 pm  
SPONSORED BY BTG



08:30 – 08:40	<b>CHAIRS WELCOME - Tim Woods, IndustryEdge</b>
08:40 – 09:20	<b>FACING AN UNCERTAIN FEDERAL POLITICAL LANDSCAPE</b> Ross Hampton, CEO, Australian Forest Products Association (AFPA), ACT, Australia
09:20 – 10:00	<b>TOWARDS A CIRCULAR ECONOMY: CONVERTING WASTE AND BIOMASS TO ENERGY PRODUCTS</b> Dr Daniel Roberts, Director of CSIRO’s Hydrogen Energy Future Science Platform, CSIRO, QLD, Australia
10:00 – 10:30	<b>PANEL: THE ROLE OF WASTE TO ENERGY AND MATERIAL RECYCLING IN THE CIRCULAR ECONOMY - Moderator: Tim Woods, IndustryEdge</b> Carol Ng, SUEZ, David Jettner, Australian Paper, Dr Daniel Roberts, CSIRO, Professor Bernadette McCabe, University of Southern Queensland

**MORNING TEA**

BIOFUTURE FORUM SPONSORED BY AUSTRALIAN - PAPER BIOPATHWAYS	SUSTAINABLE PACKAGING FORUM SPONSORED BY VISY PULP & PAPER	YOUNG PROFESSIONALS FORUM SPONSORED BY PMP	MILL MANAGERS FORUM SPONSORED BY WOOD BECA
ROOM 106	ROOM 105	ROOM 104	ROOM 107
<b>Chair: Dr Nafty Vanderhoek, Consultant</b>	<b>Chair: Tim Woods, IndustryEdge</b>	<b>Chair: Thilina, Gunawardhana, Orora</b>	<b>INVITATION ONLY</b>  <b>FACILITATOR</b> <b>HOWARD BURVILL</b>  <i>The Mill Managers Forum is a regular feature of the Appita Annual Conference program.</i>
<b>11:00 – 11:30</b>	<b>11:00 – 11:30</b>	<b>11:00 – 11:10</b>	
<b>DRIVERS AND CHALLENGES OF BIO-BASED ECONOMY IN EUROPE</b> Heli Kangas, D. Sc. (Tech.), Research Team Leader, Project Manager, Biomass Processing and Products, VTT, Finland	<b>SPONSORS ADDRESS</b> <b>PACKAGING, RECYCLING, INNOVATION AND SUSTAINABILITY - WHAT NEXT?</b> Richard Macchiesi, Visy - Corporate - General Manager - Innovation and Corporate Affairs, Visy, Australia	<b>SPONSORS ADDRESS</b> Ignacy Dumin, Senior Marketing Specialist, PMP Group, Poland	
<b>11:30 – 12:00</b>	<b>11:30 – 12:00</b>	<b>11:10 – 12:00</b>	
<b>THE BIOECONOMY LANDSCAPE IN AUSTRALIA AND THE ROLE OF BIOENERGY</b> Professor Bernadette McCabe, Principal Scientist, Leader - Energy and Bioresource Recycling Research Program Team, Centre for Agricultural Engineering, University of Southern Queensland, Australia	<b>TOWARDS THE 2025 NATIONAL PACKAGING TARGETS</b> Lily Barnett, Program Manager, Australian Packaging Covenant Organisation (APCO), Australia	<b>REINVENT YOURSELF. THE SCIENCE OF BREAKING OUT OF A COMFORT ZONE FOR YOUNG PROFESSIONALS</b> Maja Mejsner, Vice President Business Development & Marketing - PMP Group, Poland	
<b>12:00 – 12:30</b>	<b>12:00 – 12:30</b>	<b>12:00 – 12:30</b>	
<b>LEADING THE WAY TO CIRCULAR ECONOMY AND SUSTAINABLE ENERGY IN VICTORIA – AUSTRALIAN PAPER &amp; SUEZ MARYVALE ENERGY FROM WASTE DEVELOPMENT</b> Carol Ng, Project Manager, SUEZ Recycling & Recovery, Australia & New Zealand	<b>NESTLÉ PACKAGING SAFETY &amp; COMPLIANCE &amp; SUSTAINABILITY</b> Raymond Tan, Packaging Technologist, Nestle, Australia	<b>THE GOOD, BAD AND UGLY: HOW MENTORS AND MANAGERS HAVE HELPED SHAPED MY CAREER SO FAR</b> Dr David Vercoe, Technical Manager, Australian Paper, Australia	

**LUNCH**

<b>Chair: Prof Warren Batchelor, BioPRIA</b>	<b>Chair: Chris Peloso, Amcor</b>	<b>Chair: Deanne Heier, Norske Skog</b>	<i>The main aim of the forum is to provide a means for senior managers from the Australian &amp; New Zealand Pulp and Paper Industry to meet and address critical management issues relating to today’s mill environment. It is an invitation only event, and there is a consensus agenda – managers select the topics.</i>
<b>1:30 – 2:00</b>	<b>1:30 – 2:00</b>	<b>1:30 – 2:00</b>	
<b>SPINIFEX-DERIVED CELLULOSE NANOFIBRES, SCALE UP, APPLICATIONS AND COMMERCIAL INDIGENOUS PARTNERSHIPS</b> Professor Darren Martin, Group Leader, The Australian Institute for Bioengineering and Nanotechnology (AIBN), The University of Queensland, Australia	<b>THE OPPORTUNITIES FOR PAPER AS A MORE SUSTAINABLE ALTERNATIVE TO PLASTIC PACKAGING</b> Ricardo De Genova, Vice President, Strategic Marketing and R&D – Paper, Solenis, USA	<b>BUILDING SELF CONFIDENCE - GOING BEYOND “FAKE IT ‘TILL YOU MAKE IT”</b> Lauren Beckett, Environment Manager, Australian Paper, Maryvale Mill, Australia	
<b>2:00 – 2:30</b>	<b>2:00 – 2:30</b>	<b>2:00 – 2:30</b>	
<b>PROPERTIES AND ENERGY CONSUMPTION OF LIGNOCELLULOSE FIBRES DERIVED FROM SPINIFEX &amp; PREPARED BY DIFFERENT MECHANICAL METHODS</b> Katarzyna Kępa, PhD Student, The Australian Institute for Bioengineering and Nanotechnology (AIBN), The University of Queensland, Australia	<b>SUSTAINABLE FOOD CONTACT MATERIALS IN CHINA</b> Oscar Wang, Deputy Director, Guangzhou Customs Technology Center, National Reference Laboratory for Food Contact Material (Guangdong), China	<b>THE DATA ANALYTICS TOOLBOX: CHOOSING THE BEST TOOL FOR YOUR JOB</b> Dr Joanne Tanner, Lecturer & Researcher, Bioresource Processing Institute of Australia (BioPRIA), Australia	
<b>2:30 – 3:00</b>	<b>2:30 – 3:00</b>	<b>2:30 – 3:00</b>	
<b>VALORISATION OF SORGHUM BIOMASS INTO SUSTAINABLE, HIGH-PERFORMANCE CELLULOSE NANOMATERIALS</b> Jordan Pennells, PhD Student, The Australian Institute for Bioengineering and Nanotechnology (AIBN), The University of Queensland, Australia	<b>UNPACKING FOOD INDUSTRY EXPECTATIONS FOR FOOD PACKAGING MANUFACTURERS</b> James Elton, Director/Consultant, Core Compliance Pty Ltd, Australia	<b>STORY TELLING THROUGH DATA VISUALIZATION</b> Matthew O’Connor, Technical Coordinator & Lab Manager, Norske Skog Paper Mills (Australia) Ltd., Australia	

**AFTERNOON TEA**

PULP & PAPER FORUM			
<b>Chair: Piers Pettit, Enviroprocess</b>	<b>Chair: Steven Woollacott, Visy P &amp; P</b>	<b>Chair: Sarah Ruddell, Wood Beca</b>	<i>The topics are generally wide-ranging, covering culture change, mill safety, water and energy management, industrial relations, addressing skills shortages and lean manufacturing.</i>
<b>3:30 – 4:00</b>	<b>3:30 – 4:00</b>	<b>3:30 – 4:00</b>	
<b>BIG DATA OPPORTUNITIES IN PULP AND PAPER – A CASE STUDY ON WHAT CAN BE ACHIEVED DURING A RECENT ENERGY AUDIT</b> Graeme Harding, Senior Associate Process Engineer, Wood Beca, Australia	<b>MEASUREMENT CHALLENGES FOR PARTICLE CHARACTERISATION: FROM NANOPARTICLES TO MICROPLASTICS</b> Dr. Åsa Jämting, Senior Scientist, Nanometrology Section, National Measurement Institute, Australia	<b>PANEL: MANAGING PROFESSIONAL GROWTH: TIPS AND TOOLS FOR MAKING PROGRESS</b> Join a lively discussion on how to manage your professional growth with a panel of vibrant young professionals and learn how you can stay on track.	
<b>4:00 – 4:30</b>	<b>4:00 – 4:30</b>		
<b>EVALUATION OF PULP AND PAPER WASTEWATER CELL GROWTH KINETICS</b> Rohan Wilks, Environment Development Manager, Australian Paper, Australia	<b>LESSONS FROM THE LIFECYCLE OF PAPER PRODUCTS</b> Tim Grant, Product Development, Manager, PIQET, Australia		
<b>4:30 – 5:00</b>	<b>4:30 – 5:00</b>	<b>4:30 – 5:00</b>	
<b>UREA DOSING OPTIMISATION IN NUTRIENT DEFICIENT PULP &amp; PAPER WASTEWATER</b> Lahiru Perera, Improvement Manager, Australian Paper, Australia	<b>CERTIFIED COMPOSTABLE BIOPOLYMERS AND CIRCULAR ECONOMY</b> Rowan Williams, Australasian Bioplastics Association, Australia	<b>YOUNG PROFESSIONAL MENTORING PROGRAM – Get involved and realise the benefits!</b> Sahan Kumarasinghe, Asset Management Engineer, Australian Paper, Australia	

**Join the Appita Young Professionals on a Team Building Day with Urban Quest (Registration required)****10:30 am – 1:00 pm Melbourne Central Lion Hotel****Delegates to meet at the Melbourne Central Lion Hotel, 211 La Trobe St, Melbourne VIC at 10:15 am.**

Urban Quest is an emotionally charged interactive Race that is full of clever riddles, hilarious challenges and lots of fun and action that will keep you talking for weeks afterwards!

**What will you do?**

You will participate in a fun filled race through the heart of Melbourne CBD which will keep you team engaged and constantly interacting, with tasks involving visual and audio puzzles and problems to solve.

**Why you should join us?**

- Put your problem-solving and communication skills to test
- Network with fellow young professionals across the globe and make new friends
- Get to know Melbourne better while traversing through iconic Melbourne alleys and pathways
- More importantly, wind-down and have fun!

**What else will you get?**

Lunch and drinks at Melbourne Central Lion Hotel after the event.

**POSTERS****POSTERS WILL BE DISPLAYED FOYER 1 MCEC****EFFECT OF ULTRASONIC-ASSISTED IONIC LIQUID PRETREATMENT ON THE BLEACHABILITY AND PROPERTIES OF EUCALYPTUS KRAFT PULP (ID1)**

Guihua Yang<sup>1</sup>, Jianmin Peng<sup>1</sup>, Letian Qj<sup>1</sup>, Ming He<sup>1</sup>, Yu Xue<sup>1</sup>, Jiachuan Chen<sup>1</sup>  
<sup>1</sup>Qilu University of Technology, Jinan, Shandong, PR China

**EFFECTS OF CELLULOSE NANOFIBRILS WITH DIFFERENT ADDITION METHODS ON PULP DRAINABILITY AND PAPER PROPERTIES (ID2)**

Ming He<sup>1</sup>, Guihua Yang<sup>1</sup>, Jiachuan Chen<sup>1</sup>, Xingxiang Ji<sup>1</sup>, Zhaoxiang Liu<sup>1</sup>  
<sup>1</sup>Qilu University of Technology, Jinan, Shandong, PR China

**OXIDIZED AND ESTERIFIED STARCH WITH THE ASSIST OF CELLULOSE NANOCRYSTAL AND ITS SUBSEQUENT COMPOSITE FILM (ID10)**

Zhaoyun Lin<sup>2</sup>, Guihua Yang<sup>1</sup>, Jiachuan Chen<sup>1</sup>, Yuanyuan Xia<sup>1</sup>  
<sup>1</sup>Qilu University of Technology, Jinan, Shandong, PR China

**ONE-STEP HYDROTHERMAL CATALYTIC CONVERSION OF CASSAVA RESIDUE INTO DIOLS (ID17)**

Kai Zhang<sup>2</sup>, Jiachuan Chen<sup>1</sup>, Xingxiang Ji<sup>2</sup>, Guihua Yang<sup>1</sup>  
<sup>1</sup>Qilu University of Technology, Jinan, Shandong, PR China

**HIGH-TECH INSTRUMENTS TO CONTROL THE PAPERMAKING PROCESS MACHINE, QUALITY AND SAFETY (ID29)**

Urpo Launonen  
 UJL Pty Ltd, Australia

**INTELLI AIR CAP – SMART RESPONSE FOR NEW CHALLENGES (ID31)**

Maciej Ossowski  
 PMP-Paper Machinery Producer

**BE WISE, GET WIDE, ACHIEVE SPECTACULAR RESULTS WITH INTELLI-TISSUE® ULTRA TECHNOLOGY (ID32)**

Maciej Ossowski  
 PMP-Paper Machinery Producer

**MODERN FORMING FABRIC AND PRESS-FELT CLEANING SOLUTION FOR PAPER-, BOARD AND TISSUE MACHINES (ID41)**

Ludo Fransen  
 PFC Maintenance, Netherlands

**PROCEMEX ONE PLATFORM – FUTURE PROOF INVESTMENT (ID45)**

Ilpo Turunen  
 Procemex Ltd, Finland

**STRENGTHENING OF POLYVINYLPIRROLIDONE (PVP) HYDROGELS BY ADDITION OF CELLULOSE NANOFIBRILS (ID47)**

Hye Jung Youn<sup>2</sup>, Wanhee Im<sup>2</sup>, Shin Young Park<sup>2</sup>, Soom Goo<sup>1</sup>, Simyub Yook<sup>1</sup>, and Hak Lae Lee<sup>2</sup>  
<sup>1</sup>Department of Forest Science, Seoul National University, Korea