

**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. Len Humphreys*

Chief Executive Officer

**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)



SCHEDULE AT A GLANCE		DAY 1 – TUESDAY 10 DECEMBER 2019	
08:45 – 08:50	CONFERENCE WELCOME - Stephen Parkinson, Appita President		
08:50 – 09:30	OPENING ADDRESS Debbie O’Byrne, Director, Circular Business Solutions		
09:30 – 10:10	RESPONSIBLE FORESTRY TO SUPPORT CIRCULAR BIOECONOMY Aida Greenbury, Board of Advisors, The Bioeconomy Forum, Australia		
10:10 – 10:30	PANEL DISCUSSION – A FOREST BASED CIRCULAR BIOECONOMY – VISION, OPPORTUNITIES AND CHALLENGES Aida Greenbury, The Bioeconomy Forum, BioPRIA, Heli Kangas, VTT, Debbie Obyrne, Circular Business Solutions		
MORNING TEA			
BIOFUTURE FORUM SPONSORED BY AUSTRALIAN PAPER - BIOPATHWAYS		MANUFACTURING EXCELLENCE SYMPOSIUM SPONSORED BY VALMET	PULP & PAPER FORUM SPONSORED BY GAW
ROOM 106		ROOM 105	ROOM 104
Chair: Dr Nafty Vanderhoek, Consultant		Chair: Howard Burvill, Consultant	Chair: Murray Ellis, Australian Paper
11:00 – 11:10		11:00 – 11:10	11:00 – 11:10
SPONSORS ADDRESS Peter Williams, Chief Executive Officer, Australian Paper, Australia		SPONSORS ADDRESS Jaegen Peet, Director, Australia & New Zealand, Valmet	SPONSORS ADDRESS Raj Venugopal, Regional Director Asia Pacific, GAW Technologies GmbH, Malaysia
11:10 – 11:40		11:10 – 11:40	11:10 – 11:40
DEVELOPMENT OF A NEW TRAINING AND RESEARCH FRAMEWORK FOR BIO-MANUFACTURING IN A REGIONAL AREA (ID39) Mark Potter, Project Director, WTIF Biopathways Partnership Project, Australian Paper, Australia		HOW TO STAY COMPETITIVE THROUGH SERVICE AGREEMENTS IN PULP AND PAPER INDUSTRY Petri Lakka, Vice President, Services Development, Valmet, Finland	INNOVATIVE ENZYMATIC STARCH CONVERSION SYSTEM (ID38) Raj Venugopal, Regional Director Asia Pacific, GAW Technologies GmbH, Malaysia
11:40 – 12:10		11:40 – 12:10	11:40 – 12:10
STRUCTURING APPLIED BIOMANUFACTURING LEARNING TO MAXIMISE CROSS-SECTORIAL APPLICABILITY (ID40) Emily Scholes, CEO, EnviroMicroBio, Australia		LEAN IMPLEMENTATION – AM I REALLY READY AND WHERE DO I START? Victor Andjelkovic, Operational Excellence Manager, Bulla Dairy Foods, Australia	DOSING OF WET END ADDITIVES IN PREMIXED PAIRS AND GROUPS IN A FLASH MIXING REACTOR CHALLENGES OLD RULES WITH GREAT ECONOMICAL BENEFITS (ID30) Urpo Launonen, Managing Director, UJL Pty Ltd, Australia
12:10 – 12:40		12:10 – 12:40	12:10 – 12:40
TRANSITIONING REGIONAL AUSTRALIA TO CIRCULAR BIOECONOMY: A CASE FOR THE LATROBE VALLEY Adeel Ghayur, Postdoc Fellow Biomanufacturing School of Science, Engineering & IT Federation University, Australia		TACKLING CHALLENGING GOAL THROUGH TEAMWORK AND LEAN THINKING Jim Glover, Group Manager – Continuous Improvement, Operations Excellence, Visy Industries, Victoria, Australia	WHY AND WHAT DO WHEN WHITE AKD DEPOSITS OCCUR (ID43) Prof Hak Lae Lee, Professor, Seoul National University, Korea
LUNCH			
Chair: Prof Warren Batchelor, BioPRIA		Chair: David Vercoe, Australian Paper	Chair: Vesna Milunovic, Visy P & P
1:30 – 2:00		1:30 – 2:00	1:30 – 2:00
PAPER AND CELLULOSE FOR BLOOD DIAGNOSTICS Prof Gil Garnier, Director, Bioresource Processing Research Institute of Australia (BioPRIA) Monash University, Australia		STRATEGIC LEADERSHIP – DRIVING TRANSFORMATIONAL CHANGE THROUGH EMPOWERING PEOPLE Natascia Girardi, Organisational Change Leader, Blue Bike Solutions, Australia	RETENTION – DRAINAGE – FORMATION Ravi Shankar Joshi, General Manager – Sales & Technology, Ivax Paper Chemicals Limited, India
2:00 – 2:30		2:00 – 2:30	2:00 – 2:30
RAPID PAPER DIAGNOSTIC FOR PLASMA FIBRINOGEN CONCENTRATION (ID21) Marek Bialkower, PhD Student, Bioresource Processing Institute of Australia (BioPRIA), Australia		Speaker to be announced soon.	HOW MUCH IMPROVEMENT IS POSSIBLE IN PAPER PERFORMANCE AND CORRUGATED PACKAGING? (ID3) Russell Allan, Director, Aurelia Group, Australia
2:30 – 3:00		2:30 – 3:00	2:30 – 3:00
RADIAL WICKING IN PAPER FOR BIO-DIAGNOSTICS (ID19) Michael Hertaeg, PhD Student, Bioresource Processing Institute of Australia (BioPRIA), Monash University, Australia		CREATING VALUE THROUGH PROCESS SAFETY Andrew Wilson, Principal DuPont Sustainable Solutions, Australia & New Zealand	STRENGTH RECOVERY IN RECYCLE FURNISHES (ID37) Doug McLean, District Account Manager, Nalco Water – An Ecolab Company, Australia
AFTERNOON TEA			
Chair: Dr Karen Stack, Appita		Chair: Russell Allan, Aurelia Group	Chair: Terry McDonald, Visy P & P
3:30 – 4:00		3:30 – 4:00	3:30 – 4:00
CHARACTERISING NOVEL CELLULOSIC MATERIALS BY NEUTRON AND SYNCHROTRON BASED METHODS (ID27) Vikram Singh Raghuwanshi, Bioresource Processing Research Institute of Australia (BioPRIA), Monash University, Australia		Speaker to be announced soon.	FOCUSSING ON QUALITY AT M2 PAPER MACHINE (ID5 MP) Anthony Beckett, Improvement Manager M1/M2/M3, Australian Paper, Australia
4:00 – 4:30		4:00 – 4:30	4:00 – 4:30
HIGH PERFORMANCE PRODUCTS CREATED THROUGH MICROPATTERNED NANOCELLULOSE MATERIALS (ID26) Christine Browne, Post Doc, Bioresource Processing Research Institute of Australia (BioPRIA), Monash University, Australia		ADVANCED ANALYTICS IMPROVE MILL PERFORMANCE AND RELIABILITY (ID6 MP) Jari Almi, Director, Industrial Internet, Valmet Automation Inc, Finland	SAVE YOUR FIBERS, KEEP THE STRENGTH – SHOE PRESS AND SIZING TECHNOLOGY IN YOUR TOOLBOX (ID33) Pemo Klimczak, Vice President Technology, PMP – Paper Machinery Producer, Poland
4:30 – 5:00		4:30 – 5:00	4:30 – 5:00
BISMUTH-BASED ANTIBACTERIAL FILTER PAPER FOR DRINKING WATER PURIFICATION (ID25) Maisha Maliha, PhD Student, Bioresource Processing Institute of Australia (BioPRIA), Monash University, Australia		ADVANCED ANALYTICS MODELS Matthew O’Connor, Technical Coordinator & Lab Manager, Norske Skog Paper Mills (Australia) Ltd., Australia (ID46)	LINERBOARD PAPER MACHINE FORMING TABLE OPTIMIZATION (ID4 MP) Steven Prokopiwskyi, PM Process Engineer, Australian Paper, Australia
WELCOME RECEPTION 5:00 pm – 6:00 pm SPONSORED BY BIOPRIA			

SCHEDULE AT A GLANCE		DAY 2 – WEDNESDAY 11 DECEMBER 2019	
08:45 – 08:50	CHAIRS WELCOME - Tim Woods, IndustryEdge		
08:50 – 09:30	RECYCLING AND RECOVERED PAPER CHALLENGES AND OPPORTUNITIES IN THE EMERGING CIRCULAR ECONOMY Dr Anthony Wilkins, Head of Environment at News Corp Australia (NCA)		
09:30 – 10:10	EMERGING ISSUES FOR RECYCLING AND RECOVERED PAPER – CHALLENGES AND OPPORTUNITIES Gayle Sloan, Chief Executive Officer, Waste Management & Resource Recovery Association of Australia (WMRRA)		
10:10 – 10:30	PANEL DISCUSSION: EMERGING CHALLENGES FOR RECYCLING IN AUSTRALIA & NEW ZEALAND Dr Anthony Wilkins, News Corp Australia, Gayle Sloan, WMRRA, Darren Thorpe, Australian Paper Recovery		
MORNING TEA			
BIOFUTURE FORUM SPONSORED BY AUSTRALIAN PAPER - BIOPATHWAYS	MARKET FORUM	PULP & PAPER FORUM SPONSORED BY GAW	
ROOM 106	ROOM 105	ROOM 104	
Chair: Stephen Parkinson, Appita	Tim Woods, IndustryEdge	Chair: Deanne Heier, Norske Skog	
11:00 – 11:30	PROGRAM TO BE ANNOUNCED SHORTLY	11:00 – 11:30	
FROM KGS TO TONNES: GETTING TO MARKET IN THE BIOECONOMY Tony Duncan, CEO, Circa Group Ltd, Australia	Fibre and renewable resources in general have a lot of work to do in the modern world. From paper and board production, through energy outcomes, organic chemicals and unique products that are still in their infancy, the pressures on already scarce fibre resources continue to mount. <ul style="list-style-type: none"><li>Just how much virgin wood fibre is available, and is it going to be enough to meet all of the competing needs?</li><li>In a world starved of fibre, what is the situation with recovered fibre right now and what solutions are likely to emerge?</li><li>What are the competing fibre needs and what are their prospects for future growth?</li><li>How might energy at the industrial scale and emerging industries further impact demand?</li></ul>	NECESSITY IS THE MOTHER OF INVENTION – FORWARD THINKING CONCEPTS ON HOW TO BUILD A PM FOR THE FUTURE (ID34) Maja Mejsner, Vice President Business Development & Marketing, PMP –Paper Machinery Producer, Poland	
11:30 – 12:00		11:30 – 12:00	
THE CAT-HTR HYDROTHERMAL UPGRADING PLATFORM AS A SOLUTION FOR WASTE BIOMASS AND WASTE PLASTIC Dr Len Humphreys, CEO, Licella Holdings, Australia		VALMET F55 UPGRADED TO UHD IMAGE QUALITY - NEW OPPORTUNITIES FOR LAB ANALYSIS OF FIBRES, FINES AND FIBRILS (ID15) Timo Riippa, Sales Manager Australia, Valmet Measurement Products, Australia	
12:00 – 12:30		12:00 – 12:30	
CHALLENGES AND OPPORTUNITIES OF THE PAPER PRODUCT IN THE PLASTIC ERA Professor Hak Lae Lee, Professor, Korea University, Korea		UNIQUE SALES AND OPERATIONS PLANNING SOLUTION FOR PAPER AND PACKAGING INDUSTRY (ID24) Inigo Bridle, Director, I-Plan Europe, United Kingdom	
LUNCH			
Chair: Prof Gil Garnier, BioPRIA		Chair: Mathew O'Connor, Norske Skog	
1:30 – 2:00	This sharp and focussed market forum will address these issues, providing perspectives and insights to help understand the latest developments, how they integrate, and the conflicts that arise where competing interest come into conflict.	1:30 – 2:00	
STRATEGIES FOR TRANSITIONING TO THE NEW PLASTICS ECONOMY Bronwyn Laycock, Associate Professor School of Chemical Engineering Faculty of Engineering, Architecture and Information Technology, Australia		DEBOTTLENECKING A HORIZONTAL BELT STYLE WASHER (ID8 MP) Shawn Chen, Process Engineer, Australian Paper, Australia	
2:00 – 2:30		2:00 – 2:30	
LIGNOCELLULOSIC BIOMASS HYDROTHERMAL LIQUEFACTION TO GENERATE FEEDSTOCK FOR POLYHYDROXYALKANOATE PRODUCTION (ID52) Tianlong Zhang, School of Chemical Engineering, The University of Queensland, Australia		M2 PRESSING CONCERNS (ID12 MP) Rachael Green, Mechanical Engineer, Australian Paper Maryvale Mill, Australia	
2:30 – 3:00		2:30 – 3:00	
NANOCELLULOSE RECYCLABILITY Prof Warren Batchelor, Deputy Director, Bioresource Processing Institute of Australia (BioPRIA), Australia		IMPROVING RELIABILITY AND PROCESS EFFICIENCY THROUGH CHEMICAL RECOVERY CYCLE CAPITAL INVESTMENT (ID42 MP) Murray Ellis, Process Technology Manager – Recovery, Australian Paper, Australia	
AFTERNOON TEA			
	NEW SPEAKERS COMPETITION SPONSORED BY IMERYS		
Chair: Prof Warren Batchelor, BioPRIA	Chair: Russell Allan	Chair: Piers Pettit, Enviroprocess	
3:30 – 4:00	3:30 – 3:40	3:30 – 4:00	
POTENTIAL OF NANOCELLULOSE-BASED SUPERABSORBENT HYDROGEL IN AGRICULTURE (ID28) Ruth Barajas Ledesma, PhD Student, Bioresource Processing Institute of Australia (BioPRIA), Australia	SPONSORS ADDRESS Mike Fowler, Imerys Minerals Australia, Sales Manager Australia & New Zealand	CHANGES TO VICTORIA'S ENVIRONMENTAL LEGISLATION (ID18 MP) Lauren Beckett, Environment Manager, Australian Paper, Maryvale Mill, Australia	
4:00 – 4:30	3:40 – 4:10	4:00 – 4:30	
MESOPOROUS SILICA- NANOFIBRILLATED CELLULOSE COMPOSITES FOR HIGH PERFORMANCE DEPTH FILTRATION (ID51) Seyedeh Simin Miri, PhD Student, Bioresource Processing Institute of Australia (BioPRIA), Australia	PAPER MACHINE 2 SAVEALL IMPROVEMENT AND OPTIMIZATION (ID9 MP) Rudrashish Bandyopadhyay, Graduate Process Engineer, Australian Paper, Australia	BOILER BIOGAS INTEGRATION AT VISY PAPER 3&6 (ID7 MP) Madeleine Neville, Graduate Project Engineer, Visy Paper, Australia	
4:30 – 5:00	4:10 – 4:40	4:30 – 5:00	
PHYSICAL AND CHEMICAL CROSSLINKED NANOCELULOSE FOAM: STRUCTURE ANALYSIS AND SWELLING PHENOMENON (ID20) Laila Hossain, PhD Student, Bioresource Processing Institute of Australia (BioPRIA), Australia	FIBRELINE MASS BALANCE FOR PRODUCTION RECONCILIATION (ID11 MP) Ryan Brown, Graduate Process Engineer, Oji Fibre Solutions, New Zealand	BACK TO BASICS WITH FOUL GAS INCINERATION (ID36 MP) Hamish McCracken, Senior Process Technology Engineer, Australian Paper, Australia	
AFTERSSESSION NETWORKING 5:00 pm to 6:00 pm SPONOSRED BY BTG			



SCHEDULE AT A GLANCE		DAY 3 – THURSDAY 12 DECEMBER 2019	
08:45 – 08:50	CHAIRS WELCOME - Tim Woods, IndustryEdge		
08:50 – 09:30	FACING AN UNCERTAIN FEDERAL POLITICAL LANDSCAPE Ross Hampton, CEO, Australian Forest Products Association (AFPA), ACT, Australia		
09:30 – 10:10	TOWARDS A CIRCULAR ECONOMY: CONVERTING WASTE AND BIOMASS TO ENERGY PRODUCTS Dr Daniel Robert, Director of CSIRO’s Hydrogen Energy Future Science Platform, CSIRO, QLD, Australia		
10:10 – 10:30	PANEL: THE ROLE OF WASTE TO ENERGY AND MATERIAL RECYCLING IN THE CIRCULAR ECONOMY 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 BECA AMEC
ROOM 106	ROOM 105	ROOM 104	ROOM 107
Chair: Dr Nafty Vanderhoeck, Consultant	Chair: Stephen Parkinson, Appita	Chair: Thilina, Gunawardhana, Orora	INVITATION ONLY  FACILITATOR JIM HENNEBERRY  The Mill Managers Forum is a regular feature of the Appita Annual Conference program.
11:00 – 11:30	11:00 – 11:30	11:00 – 11:10	
DRIVERS AND CHALLENGES OF BIO-BASED ECONOMY IN EUROPE Heli Kangas, D. Sc. (Tech.), Research Team Leader, Project Manager, Biomass Processing and Products, VTT, Finland	SPONSORS ADDRESS Richard Macchiesi, Visy - Corporate - General Manager - Innovation and Corporate Affairs, Visy, Australia	SPONSORS ADDRESS Ignacy Dumin, Senior Marketing Specialist, PMP Group, Poland	
11:30 – 12:00	11:30 – 12:00	AFTERNOON TEA	
THE BIOECONOMY LANDSCAPE IN AUSTRALIA AND THE ROLE OF BIOENERGY Professor Bernadette McCabe, Principal Scientist, Leader - Energy and Bioresource Recycling Research Program Team, Centre for Agricultural Engineering, University of Southern Queensland, Australia	PACKAGING MARKET INSIGHT Tim Woods, Director, Industry Edge, Australia Title to be advised.	REINVENT YOURSELF. THE SCIENCE OF BREAKING OUT OF A COMFORT ZONE FOR YOUNG PROFESSIONALS Maja Mejsner, Vice President Business Development & Marketing - PMP Group, Poland	
12:00 – 12:30	12:00 – 12:30	12:00 – 12:30	
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	Speaker to be confirmed	THE GOOD, BAD AND UGLY: HOW MENTORS AND MANAGERS HAVE HELPED SHAPED MY CAREER SO FAR Dr David Vercoe, Technical Manager, Australian Paper, Australia	
LUNCH			
Chair: Prof Warren Batchelor, BioPRIA	Chair: Stephen Parkinson, Appita	Chair: Deanne Heier, Norske Skog	The main aim of the forum is to provide a means for senior managers from the Australian & 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.
1:30 – 2:00	1:30 – 2:00	1:30 – 2:00	
SPINIFEX-DERIVED CELLULOSE NANOFIBRES, SCALE UP, APPLICATIONS AND COMMERCIAL INDIGENOUS PARTNERSHIPS Professor Darren Martin, Group Leader, The Australian Institute for Bioengineering and Nanotechnology (AIBN), The University of Queensland, Australia	THE OPPORTUNITIES FOR PAPER AS A MORE SUSTAINABLE ALTERNATIVE TO PLASTIC PACKAGING Ricardo De Genova, Vice President, Strategic Marketing and R&D – Paper, Solenis, USA	BUILDING SELF CONFIDENCE - GOING BEYOND “FAKE IT ‘TILL YOU MAKE IT” Lauren Beckett, Environment Manager, Australian Paper, Maryvale Mill, Australia	
2:00 – 2:30	2:00 – 2:30	2:00 – 2:30	
PROPERTIES AND ENERGY CONSUMPTION OF LIGNOCELLULOSE FIBRES DERIVED FROM SPINIFEX & PREPARED BY DIFFERENT MECHANICAL METHODS Katarzyna Kepa, PhD Student, The Australian Institute for Bioengineering and Nanotechnology (AIBN), The University of Queensland, Australia	Speaker to be confirmed	THE DATA ANALYTICS TOOLBOX: CHOOSING THE BEST TOOL FOR YOUR JOB Dr Joanne Tanner, Lecturer & Researcher, Bioresource Processing Institute of Australia (BioPRIA), Australia	
2:30 – 3:00	2:30 – 3:00	2:30 – 3:00	
VALORISATION OF SORGHUM BIOMASS INTO SUSTAINABLE, HIGH-PERFORMANCE CELLULOSE NANOMATERIALS Jordan Pennells, PhD Student, The Australian Institute for Bioengineering and Nanotechnology (AIBN), The University of Queensland, Australia	UNPACKING FOOD INDUSTRY EXPECTATIONS FOR FOOD PACKAGING MANUFACTURERS James Elton, Director/Consultant, Core Compliance Pty Ltd, Australia	STORY TELLING THROUGH DATA VISUALIZATION Matthew O'Connor, Technical Coordinator & Lab Manager, Norske Skog Paper Mills (Australia) Ltd., Australia	
AFTERNOON TEA			
PULP & PAPER FORUM			The topics are generally wide-ranging, covering culture change, mill safety, water and energy management, industrial relations, addressing skills shortages and lean manufacturing.
Chair: Piers Pettit, Enviroprocess	Chair: Steven Woollacott, Visy P & P	Chair: Sarah Ruddell, Wood Beca	
3:30 – 4:00	3:30 – 4:00	3:30 – 4:00	
EVALUATION OF PULP AND PAPER WASTEWATER CELL GROWTH KINETICS (ID22 MP) Rohan Wilks, Environment Development Manager, Australian Paper, Australia	MEASUREMENT CHALLENGES FOR PARTICLE CHARACTERISATION: FROM NANOPARTICLES TO MICROPLASTICS Dr. Åsa Jämting, Senior Scientist, Nanometrology Section, National Measurement Institute, Australia	PANEL: MANAGING PROFESSIONAL GROWTH: TIPS AND TOOLS FOR MAKING PROGRESS 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.	
4:00 – 4:30	4:00 – 4:30		
UREA DOSING OPTIMISATION IN NUTRIENT DEFICIENT PULP & PAPER WASTEWATER (ID16 MP) Lahiru Perera, Improvement Manager, Australian Paper, Australia	LESSONS FROM THE LIFECYCLE OF PAPER PRODUCTS Tim Grant, Product Development, Manager, PIQET, Australia		
4:30 – 5:00	4:30 – 5:00	4:30 – 5:00	
APPITA COMMITTEE MEETING	CERTIFIED COMPOSTABLE BIOPOLYMERS AND CIRCULAR ECONOMY Rowan Williams, Australasian Bioplastics Association, Australia	YOUNG PROFESSIONAL MENTORING PROGRAM – Get involved and realise the benefits! Sahan Kumarasinghe, Asset Management Engineer, Australian Paper, Australia	
APPITA AWARDS DINNER – LUNA PARK ST KILDA 6:30 pm – 11:00 pm SPONSORED BY SOLENIS			

**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 Qi<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>1</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>1</sup>, Jiachuan Chen<sup>1</sup>, Xingxiang Ji<sup>1</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>1</sup>, Wanhee Im<sup>1</sup>, Shin Young Park<sup>1</sup>, Soom Goo<sup>1</sup>, Simyub Yook<sup>1</sup>, and Hak Lae Lee<sup>1</sup>

<sup>1</sup>Department of Forest Science, Seoul National University, Korea