

# Cellulose Nanofibre Workshop

## BioPRIA, Monash University

15 July, 2016

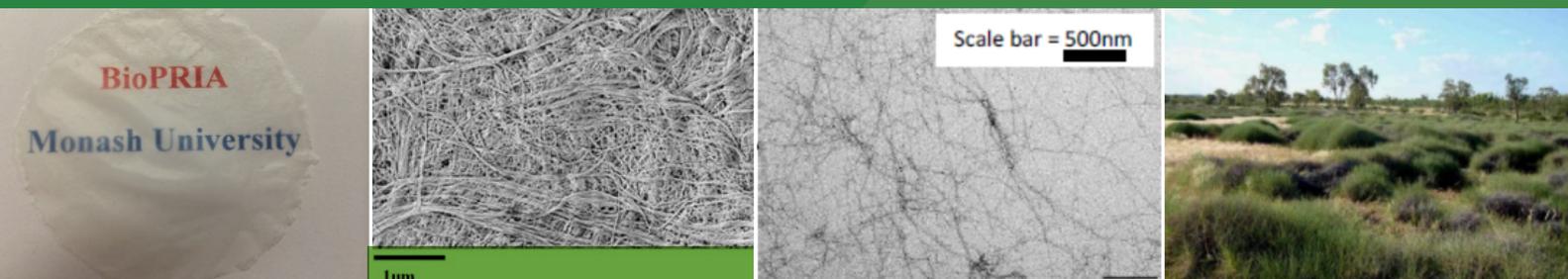
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Imagine a simple robust emergency water purifier using recyclable membranes with high throughput. Imagine fully recyclable and biocompatible packaging that keeps food fresh without metal or plastic barriers. Imagine tough, strong 100% bio-derived composites for light-weight structures or biodegradable medical membranes that keep away bacteria and pollutants but permeate oxygen.

These innovative materials are just a few emerging applications now possible with cellulose nanofibres, an exciting new class of natural renewable nanomaterials.

World-wide use of nanocellulose will dramatically increase as many pilot-scale and commercial plants currently under construction start production.

This workshop will give an overview of the applications for cellulose nanofibres, the world-wide market and prospects and will particularly highlight the current capabilities within Australia in the production and application of this emerging material.



# Cellulose Nanofibre Workshop

## Register Now

<http://appita.com/nano-registration>

### Who should attend?

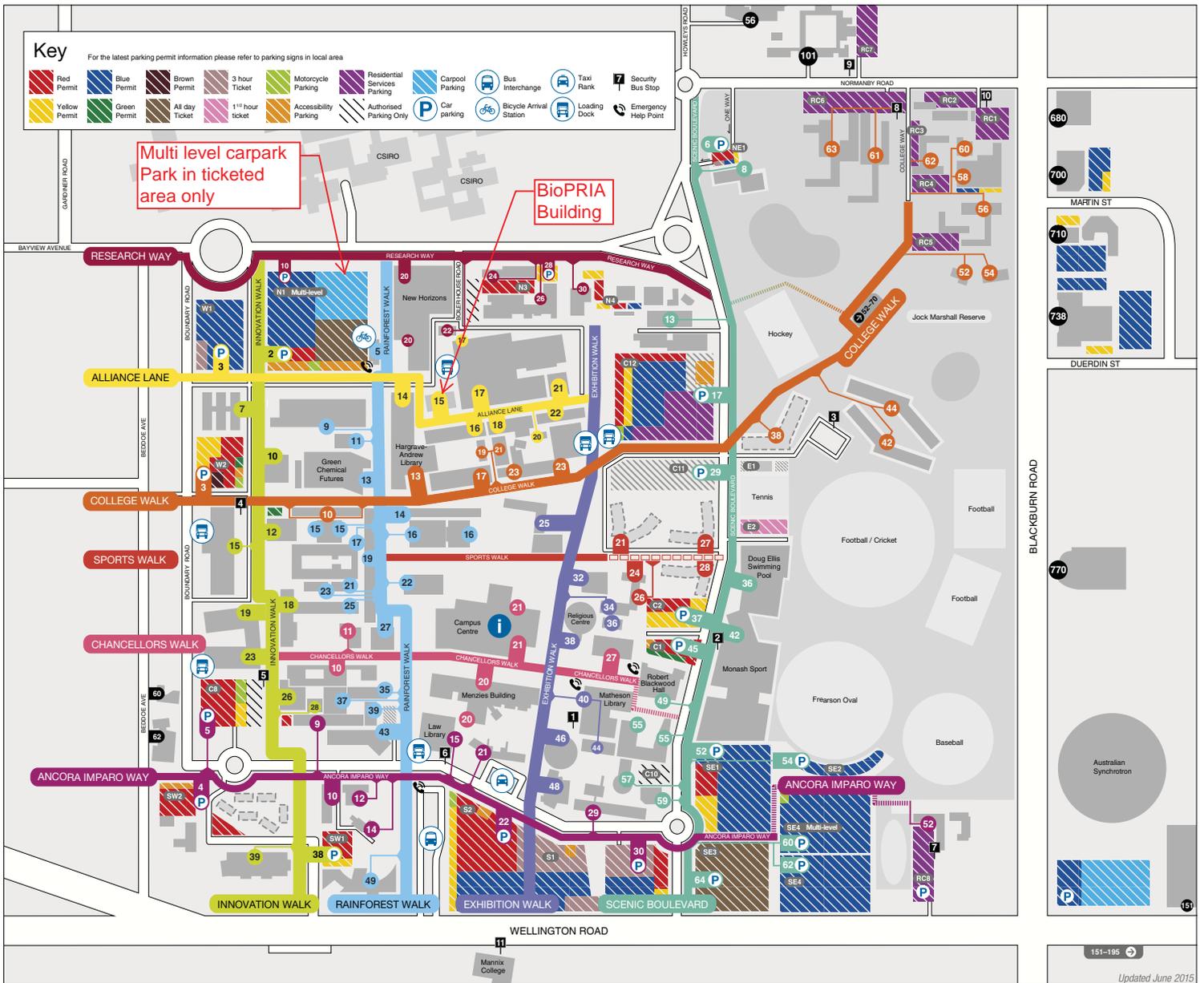
Researchers and process engineers from industry and academia interested in the applications and possibilities of this renewable nanomaterial.

### Workshop Information

Location	BioPRIA, Monash University, Clayton Campus 15 Alliance Lane (Bld 59), Monash University Clayton
Parking	See campus map at <a href="http://www.monash.edu.au/pubs/maps/3-Claytoncolour.pdf">http://www.monash.edu.au/pubs/maps/3-Claytoncolour.pdf</a> )
Time	9 am to 4 pm, 15th of July 2016
Cost	\$385 Standard rate \$275 / Appita Members \$150 / BAMI/BioPRIA industry partner company employees \$77 / For Postgraduate student GST inc. Prices are in Australian Dollars. Workshop includes morning and afternoon tea and lunch.
Contact	Appita <a href="mailto:admin@appita.com">admin@appita.com</a> or phone +61 3 9467 9722 for more information
Registration	<a href="http://appita.com/nano-registration">http://appita.com/nano-registration</a>

TIME	TITLE	SPEAKER
8:30 – 8:50	Registration and coffee	
8:50 – 9:00	Opening and welcome	Prof. George Simon, Dean Faculty of Engineering and Dr. Warren Batchelor Monash University
9:00 – 9:30	Worldwide research & trends	Dr. Warren Batchelor
9:30 – 10:00	Cellulose nanofibre quality: measurement and application	Ms. Praveena Raj, Monash University
10:00 – 10:30	Business development and commercial opportunities with Spinifex-derived nanocellulose technology	Prof. Darren Martin, University of Queensland
10:30 – 10:50	Coffee break	
10:50 – 11:20	Worldwide production and business aspects	Dr. Warren Batchelor & A. Prof. Takuya Tszuki, Australian National University
11:20 – 11:40	Cellulose nanofibre-nanoparticle composites for barriers and filters	Ms. Uthpala Garusinghe, Monash University
11:40 – 12:30	Demonstrations: Cellulose nanofibre production and sheet manufacture	Dr. Swambabu Varanasi, Monash University
12:30 – 13:10	Lunch	
13:10 – 13:40	Spinifex nanocellulose applications in natural rubber latex and PA-11 thermoplastic composites	Dr Nasim Amiralian, University of Queensland
13:40 – 14:00	Spraying nanocellulose for packaging applications	Mr. Kirubanandan Shanmugam, Monash University
14:00 – 14:30	Low environmental impact cellulose nanofibre applications	A. Prof. Takuya Tsuzuki
14:30 – 15:00	Cellulose nanofibre hydrogels	Ms. Llyza Mendoza, Monash University
15:00 – 15:20	Coffee break	
15:20 – 15:40	Low cost cellulose nanofibre barriers for packaging	Dr. Swambabu Varanasi
15:40 – 16:00	Discussion- Applications of cellulose nanofibres in the Australian Industry & closing remarks	All & Prof. Gil Garnier, Monash University

# Monash University Clayton campus



## Building/dept. name & number

Building/dept. name & number	Address
Alexander Theatre (7)	48 Exhibition Walk
Australian Pulp and Paper Institute (59)	15 Alliance Lane
Bicycle Arrival Station – James Gormley (80A)	5 Rainforest Walk
Biochemistry Laboratories (16)	11 Chancellors Walk
Biological Sciences (19)	25 Rainforest Walk
Biological Sciences Lecture Theatres S7–S8 (21)	21 Rainforest Walk
Biology (17)	18 Innovation Walk
Boiler House (38)	22 Research Way
Campus Centre (70)	21 Chancellors Walk
Central Science Block (19)	19 Rainforest Walk
Chancellery Building A (3A)	27 Chancellors Walk
Chancellery Building B (3B)	36 Exhibition Walk
Chancellery Building C (3C)	34 Exhibition Walk
Chancellery Building D (3D)	26 Sports Walk
Chancellery Building E (3E)	24 Sports Walk
Chemistry (23)	17 Rainforest Walk
Doug Ellis Swimming Pool (1)	36 Scenic Boulevard
Education (6)	29 Ancora Imparo Way
Engineering 31 (31)	17 College Walk
Engineering 33 (33)	19 College Walk
Engineering 35 (35)	16 Alliance Lane
Engineering 36 (36)	18 Alliance Lane
Engineering 36A (36A)	20 Alliance Lane
Engineering 37 (37)	17 Alliance Lane
Engineering 69 (69)	22 Alliance Lane
Engineering 72 (72)	14 Alliance Lane
Engineering Examination Halls, EH1–EH4 (60)	23 College Walk
Facilities and Services Portables (40P)	24 Research Way
Facilities and Services, Central Store, Transport and Mail (56)	30 Research Way
Facilities and Services (40)	26 Research Way
Faculty of Information Technology (63)	25 Exhibition Walk
Faculty of Medicine Offices (64)	43 Rainforest Walk
Faculty Teaching – MBBS (15)	27 Rainforest Walk
First Year Biology (22)	23 Rainforest Walk
Gallery Building (53)	21 Ancora Imparo Way
Green Chemical Futures (86)	13 Rainforest Walk
Hargrave-Andrew Library (30)	13 College Walk
Information Services (67)	44 Exhibition Walk
Japanese Studies Centre (54)	12 Ancora Imparo Way
Jock Marshall Reserve	
Environmental Laboratories (42)	52 College Walk
John Monash Science School (84)	39 Innovation Walk
Krongold Centre (5)	57 Scenic Boulevard
Law Building (12)	15 Ancora Imparo Way
Law Library (12)	15 Ancora Imparo Way

## Mathematics & Earth, Atmosphere and Environment (28)

Medicine A (13A)	37 Rainforest Walk
Medicine B (13B)	39 Rainforest Walk
Medicine C (13C)	10 Chancellors Walk
Medicine D (13D)	35 Rainforest Walk
Medicine E (13E)	9 Ancora Imparo Way
Medicine F (13F)	28 Innovation Walk
Medicine Teaching Services Unit (14)	28 Innovation Walk
Melbourne Centre for Nanofabrication (222)	151 Wellington Road
Menzies Building (11)	20 Chancellors Walk
Microbiology & Biological Sciences (53)	12 Innovation Walk
Monash Biomedical Imaging (220)	770 Blackburn Road
Monash Centre for Electron Microscopy (81)	10 Innovation Walk
Monash Children's Centre Co-op (162)	62 Beddoe Avenue
Monash Club (50)	32 Exhibition Walk
Monash College (73)	49 Rainforest Walk
Monash Community Family Co-operative (83)	56 Howleys Road
Monash House (65)	14 Ancora Imparo Way
Monash Injury Research Institute (70)	21 Alliance Lane
Monash Sport (1)	42 Scenic Boulevard
Monash Sustainability Institute (74)	8 Scenic Boulevard
Monash University Business Park (201)	680 Blackburn Road
Monash University Business Park (202)	710 Blackburn Road
Monash University Business Park (203)	700 Blackburn Road
Monash University Business Park (205)	738 Blackburn Road
Monash-Oakleigh Legal Service (160)	60 Beddoe Avenue
New Horizons (82)	20 Research Way
Old Science Laboratories (20)	22 Rainforest Walk
Performing Arts (68)	55 Scenic Boulevard
Physics (27)	10 College Walk
Plant Sciences Complex (42A)	54 College Walk
Religious Centre (9)	38 Exhibition Walk
Robert Blackwood Hall (2)	49 Scenic Boulevard
Rotunda (8)	46 Exhibition Walk
Science and IT (26)	14 Rainforest Walk
Science Instrumentation and Technology	
Development Platform (40)	26 Research Way
Science Portables (79P)	7 Innovation Walk
Security & Traffic (61)	59 Scenic Boulevard
Sir Louis Matheson Library (4)	40 Exhibition Walk
Staff Development	195 Wellington Road
STRIP1 Monash Biotechnology (75)	15 Innovation Walk
STRIP2 School of Biomedical Sciences (76)	19 Innovation Walk
STRIP3 School of Biomedical Sciences (77)	23 Innovation Walk
Yarrowonga (58)	10 Ancora Imparo Way

## Major lecture theatres

Address	
Central One Lecture Theatre (63)	25 Exhibition Walk
Engineering Lecture Theatres E1–E6 (32)	21 College Walk
Humanities Lecture Theatres H1–H10 (11)	20 Chancellors Walk
Law Lecture Theatres L1–5, O20 (12)	15 Ancora Imparo Way
Medicine Lecture Theatre M1 (13)	35 Rainforest Walk
Medicine Lecture Theatres M2–M3 (13)	37 Rainforest Walk
Rotunda Lecture Theatres R1–R7 (8)	46 Exhibition Walk
Science Lecture Theatres (North), S13–S15 (29)	11 Rainforest Walk
Science Lecture Theatres (West), S5–S6 (24)	15 Rainforest Walk
Science Lecture Theatres S1–S4, S9–S12, ST1–4, ST7 (25)	16 Rainforest Walk
Sir Alexander Stewart Theatre (72)	14 Alliance Lane
South One Lecture Theatre (64)	43 Rainforest Walk

## Residences

Address	
Briggs Hall (85B)	42 College Walk
Deakin Hall (48)	56 College Way
Farrer Hall (45)	62 College Way
Howitt Hall (46)	60 College Way
Jackomos Hall (85A)	44 College Walk
Mannix College (218)	Wellington Road x Parker Street
MRS Administration HOR (47)	
New Residences (currently C11 East) (88)	27 Sports Walk
New Residences (currently C11 West) (89)	21 Sports Walk
New Residences (currently C2) (90)	28 Sports Walk
New Residences (currently E1) (87)	38 College Walk
Normanby House (52)	101 Normanby Road
Richardson Hall (43)	63 College Way
Roberts Hall (44)	61 College Way
South East Flats (49)	52 Ancora Imparo Way

## Parking

Address	
North West Car Parks	
enter via Foster Road, Gardiner Road and Bayview Avenue	
North One Multi-level – Ground Level (N1)	10 Research Way
North One Multi-level – Upper levels (N1)	
All day ticket parking available on level 4	
North Three (N3)	2 Innovation Walk
North Three (N3)	28 Research Way
West One (W1)	3 Alliance Lane
West Two (W2)	3 College Walk
North East Car Parks	
enter via Howleys Road and Normanby Road	
Central Eleven (C11)	29 Scenic Boulevard
Central Twelve (C12)	17 Scenic Boulevard
East One (E1)	Scenic Boulevard
East Two (E2)	Scenic Boulevard
North Four (N4)	32 Research Way

North-east One (NE1)	6 Scenic Boulevard
North-east Two (NE2)	RC6 Residential Carpark 6
North-east Three (NE3)	RC7 Residential Carpark 7
North-east Four (NE4)	RC3 Residential Carpark 3
North-east Five (NE5)	RC1 Residential Carpark 1
North-east Six (NE6)	RC2 Residential Carpark 2
North-east Seven (NE7)	RC4 Residential Carpark 4
North-east Eight (NE8)	RC5 Residential Carpark 5
South West Car Parks	
enter via Wellington Road and Princes Highway	
Central Eight (C8)	5 Ancora Imparo Way
South-west One (SW1)	38 Innovation Walk
South-west Two (SW2)	4 Ancora Imparo Way
South East Car Parks	
enter via Wellington Road	
Central One (C1)	45 Scenic Boulevard
Central Two (C2)	37 Scenic Boulevard
South One (S1)	30 Ancora Imparo Way
South Two (S2)	22 Ancora Imparo Way
South-east One (SE1)	52 Scenic Boulevard
South-east Two (SE2)	54 Scenic Boulevard
South-east Three (SE3)	
All day ticket parking available	64 Scenic Boulevard
South-east Four Multi-level (SE4)	60 Scenic Boulevard
South-east Four (SE4)	62 Scenic Boulevard
South-east Five (SE5)	RC8 Residential Carpark 8
Loading docks	
Boundary Road	Boundary Road x College Walk
Boundary Road	Rear of 23 Innovation Walk
Ancora Imparo Way	Rear of 15 Ancora Imparo Way
C11 Loading Zone	29 Scenic Boulevard
Boiler House Road	Boiler House Road
Public transport	
Bus Interchange	Ancora Imparo Way x Rainforest Walk
Bus Stop	Research Way
Bus Stops	Blackburn Road
Bicycle arrival stations	
James Gormley (80A)	5 Rainforest Walk
Taxis	
Taxi Rank	Ancora Imparo Way
Share cars	
Flexicabs RC5	58 College Way
Electric vehicle charge points	
Central Two (C2)	37 Scenic Boulevard

Updated June 2015