



NSW DIVISION TECHNICAL MEETING

Wind Turbine Noise Production

Date: 17th July 2018

Venue: Room 101, (1st Floor) Civil and Environmental Engineering building (H20), UNSW. See attached map.

Time: 6:00pm for 6:45pm start
Refreshments prior to talk

Speaker: Professor Con Doolan, School of Mechanical and Manufacturing Engineering, UNSW Sydney

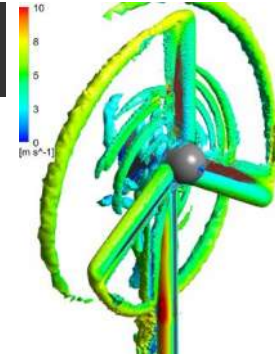
RSVP: **Thursday, 12th July 2018** to Mattia Tabacchi by email

Mattia.Tabacchi@renzotonin.com.au

Open to AAS members and guests.

This presentation will be live streamed on the following link:

<https://www.youtube.com/watch?v=bjlgNiYSIgw>



Computational modelling of wind turbine flowfield

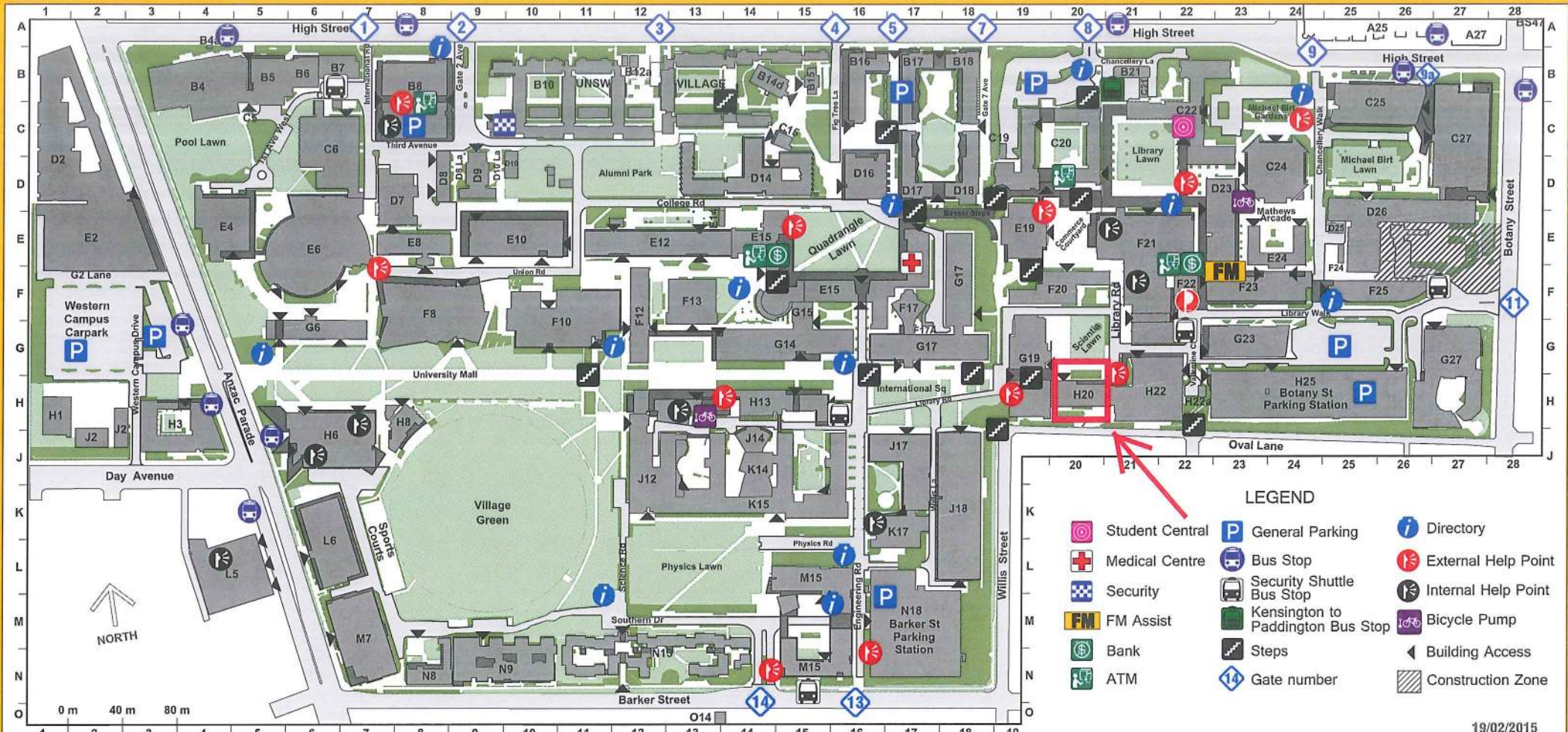
Con Doolan obtained an honours degree in Mechanical Engineering and a PhD in Aerospace Engineering from the University of Queensland. After working at the University of Glasgow, Department of Defence (Australia) and University of Adelaide, he is now a Professor at the University of New South Wales, Sydney and leads the Flow Noise Group. His research is focussed on aeroacoustics, or the production of sound from unsteady fluid flow. Current projects include the control of airfoil noise using novel perforated and poroelastic materials, submarine noise, wind turbine noise and understanding the acoustics of supersonic, reacting flows.

More information: <https://research.unsw.edu.au/people/professor-con-doolan>

Presentation abstract

Wind turbine noise remains an important challenge to understand and control. As this noise source is regulated under standards and guidelines in jurisdictions across the world, reducing its strength has the potential to allow more energy production in a smaller area, closer to communities and residences. This talk will give an overview of recent experimental and computational research results concerning noise production mechanisms on a turbine and some novel ideas for its control.

Kensington Campus



LEGEND

- Student Central
- General Parking
- Directory
- Medical Centre
- Bus Stop
- External Help Point
- Security
- Security Shuttle Bus Stop
- Internal Help Point
- FM Assist
- Kensington to Paddington Bus Stop
- Bicycle Pump
- Bank
- Steps
- Building Access
- ATM
- Gate number
- Construction Zone

19/02/2015

Buildings	Mathews	F23	University Regiment	H1	Faculty Offices	New South Global Theatre	G14	Equity and Disability Unit	F20	Religious Centre	E4
223 Anzac Parade	L5	E24a	UNSW Business School	E12	Arts and Social Sciences	C20	K15	Facilities Management	F23	Research Services	M15
AGSM	G27	J17			Built Environment	H13	E2	FM Assist ID Cards & Parking	F23	Security	B10
Biological Sciences	D26	D7	Student Accommodation		Engineering	K17	K14	Foundation Studies Permits	L5	Sports Association	H8
Blockhouse	G6	C20	Barker Apartments	N13	Law	F8	H13	Freehills Law Library	F8	Squash Courts	B7
Building D10	D10	J12	Basser College	D17	Medicine	C27	F17	Future Students Office	F20	Swimming Pool	B4
Chancellery	C22	D2	Colombo House	A25	Science	F12	G19	Graduate Research School	M15	The Learning Centre	C22
Chemical Sciences	F10	K15	Creston College	B18	UNSW Business School	E15	M15	Human Resources	C22	University Health Services	E15
Civil Engineering	H20	E24	Fig Tree Hall	B17	Theatres		G15	Institute of Languages	L5	UNSW Bookshop	E15
Colombo House	B16	E15	Goldstein College	B17	AGSM Theatres	G27	F13	IT Service Desk	F21	UNSW International Student Centre	H13
Computer Science	B16	H13	Goldstein Dining Hall	D16	Allens Arthur Robinson	F8		Kingsford Legal Centre	F8		
Dalton	K17	G14	International House	C6	Central Lecture Block	E19		Learning & Teaching Unit @UNSW	F23	UNSW Residential Communities	B17
Dangerous Goods Store	F12	E6	New College	L6	Chemical Sciences Theatres	F10		Library	F21	UNSW Scholarships	F21
Electrical Engineering	F17A	M15	New College Postgrad. Village	H3	Civil Engineering (Room G1)	H20		Lifestyle Clinic	A27	UNSW Fitness and Aquatic Centre	B5
Golf House 38 Botany Street	G17	H8	Philip Baxter College	D18	Clancy Auditorium	C24		Mail Centre	F23	UNSW Student Central	C22
John Goodsell	A27	F25	Shalom College	N9	Colombo Theatres	B16		Marketing Development	C22	Venues and Events	F23
John Niland Scientia	F20	G23	Warrane College	M7	Fig Tree Theatre	B14d		New South Innovations	M15	Childcare Centres	
Law	G19	E4	University Terraces	B8	Gonski Levy Theatre	F8		Nura Gill - Balnaves Place	G17	Kangas House 52 Barker St	O14
Library	F8	H6	UNSW Hall	D14	IO Myers Studio	D9		Optometry Clinic	M15	House at Pooh Corner	N8
Lowy Cancer Research Centre	C21	H22	UNSW Village	B10	Keith Burrows Theatre	J14		Physiotherapy Clinic	B8	Tigger's Honeyopt 22 Botany St	BS22
Materials Science	E8	C27	UNSW Residential Communities	B17	Law Theatres	F8		Post Office	F22	Owl's House 9 Kennedy St	KS9
		J18			Macaulay Theatre	E15		Print Centre	F23		
					Mathews Theatres	D23					