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**STRUCTURAL  
HEART  
DISEASE**   
**AUSTRALIA**

**23 FEBRUARY 2019**  
ABERCROMBIE BUILDING  
THE UNIVERSITY OF SYDNEY  
BUSINESS SCHOOL

**RIGHT HEART SYMPOSIUM**



### **8:30AM WORKSHOPS**

**Computer Lab 1 - Advanced TOE - Diagnostic and Intra-op**

- Prof Gregory Scalia and Jacinta Nathan. Kindly supported by GE.

**Computer Lab 2 - CT/MRI of the tricuspid valve and assessment of the RV**

- Dr Imre Hunyor. Kindly supported by CDN.

**Computer Lab 3 - Advanced Echo - Strain and 3D**

- Prof Jonathan Chan, Prof Liza Thomas, Dr. Mikhail Altman and Paula Brown. Kindly supported by TOMTEC.

**Wet-lab - Dissection, Anatomy, Devices with Imaging**

- Mr Aubrey Almeida. Kindly supported by Edwards.

### **10:10AM MORNING TEA**

### **10:30AM THE RIGHT VENTRICLE (CHAIR: PROF GREGORY SCALIA)**

Anatomy of the right heart - **Dr. Sean Lal**

Move over RVs and TAPSE - RV assessment - Strain all the way

- **Prof Liza Thomas**

MRI- Imaging of the right ventricle - **Dr. Imre Hunyor**

Rheumatic and Indigenou issues with RV - **Dr. Edwina Wing-Lun**

MRI - Interesting cases - **A/Prof. Raj Puranik**

Maladaptation of the RV in Athletes - **Dr. Guido Claessen**

Right ventricular remodelling in patients undergoing transcatheter

and surgical mitral valve repair or replacement - **Dr. Sara Hungerford**

### **LIVE CASE (IN A BOX)**

- Right Heart Catheterisation using dynamic exercise - **Dr. Katrina Adorini**

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**1:00PM LUNCH**

What Cardiac Sonographers need to know about Cardiac Devices  
- *Miriam Norman*

**1:45PM THE TRICUSPID VALVE & PHT (CHAIR: DR PETER HANSEN)**

Imaging of the tricuspid valve – *Prof. Gregory Scalia*

Novel Bioscaffold (CardioCel) in right side applications - *A/Prof. Christian Brizard*

Transcatheter tricuspid valve implants the new world - *Dr. Michael Michail*

Mild to moderate Tricuspid Regurgitation in a functioning Right Heart  
big data perspectives – *Prof. Geoffrey Strange*

Idiopathic pulmonary arterial hypertension - *Dr. Helen Thomson*

PHT in left heart disease – *Prof. David Celermajer*

**3:30PM AFTERNOON TEA**

**3:45PM NEW AND EXISTING THERAPIES FOR PULMONARY  
EMBOLISM - EXPERT PANEL (CHAIR: DR GARRICK DON)**

(Dr. Garrick Don, Prof. David McGiffin, Mr Aubrey Almeida, Dr. David Boshell,  
A/Prof. Paul Forrest, Prof. Geoffrey Strange)

ECMO in PE - *A/Prof. Paul Forrest*

Inoperable CTEPH - available medical therapies - *Dr. Garrick Don*

Balloon Pulmonary Angioplasty for CTEPH - *Dr. David Boshell*

**LIVE CASE (IN A BOX)**

- Pulmonary endarterectomy for chronic thromboembolic  
pulmonary hypertension - *Prof. David McGiffin*

**5:00PM COCKTAIL HOUR ‘MEET THE SPEAKERS’**

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## PROF. GREGORY M SCALIA

M.B.B.S. (Hons), M.Med.Sc.,  
F.R.A.C.P., F.A.C.C., F.C.S.A.N.Z.,  
F.A.S.E., J.P. Cardiologist. Professor of  
Medicine, University of Queensland.  
Director of Echocardiography,  
The Prince Charles Hospital,

Brisbane, Australia with principle involvement in the structural heart program. Senior consultant cardiologist at GenesisCare, Wesley Hospital Brisbane. President, Structural Heart Disease Australia. Chairman, Medical Advisory Board, The Wesley Hospital, Brisbane 2014-2017. Principal, Echo Australia Program 2002. Editor: Journal American Society of Echocardiography CASE Journal 2016. Advanced Imaging Fellowship at The Cleveland Clinic, Ohio 1995-1996.



## A/PROF. SHARON KAY

Cardiac Physiologist and Clinical  
senior lecturer – Sydney University  
Medical Faculty – Northern  
Clinical School and Charles Perkins  
Centre Research interests include  
cardiotoxicity, athletes and structural

heart, as well as cardiac scanning in critical care 24/7. Designed RNSH, ICU college accredited bedside echo physicians training program, running now for 8 years and replicated in centres around Australia and the UK. Also designed Australia's first full cardiac physiologist's BSc, bringing our training in line with the rest of the world in EP PPM and Echo.



## A/PROF. PAUL FORREST

A/Prof. Paul Forrest is a senior cardiac  
anaesthetist at Royal Prince Alfred  
Hospital, Sydney. He is the head of  
ECMO retrieval Australia wide. He is  
also Chief Investigator of the Sydney  
2CHEER trial of ECMO for refractory  
cardiac arrest.



## PROF. DAVID CELERMAJER

Prof. Celermajer is the Scandrett  
Professor of Cardiology at the  
University of Sydney and Royal  
Prince Alfred Hospital and a Group  
Leader and Clinical Director at the  
Heart Research Institute. He has a  
special interest in and is an expert in congenital heart  
disease.



## DR. PETER HANSEN

Consultant and Interventional  
Cardiologist on the North Shore  
Hospital Campus (RNSH and  
NSPH). He has expertise in complex  
coronary intervention and structural  
heart disease including established  
percutaneous valve therapies such

as TAVI and MitraClip. He has been instrumental in setting up the infarct angioplasty service and a comprehensive structural heart disease program on the North Shore Hospital Campus.



## DR. CHRISTOPHER BARNES

Is a visiting Cardiologist at Royal  
North Shore Hospital, Mona  
Vale and the Mater Hospitals.  
His qualifications include MB BS  
(Hons UNSW, 1981); FRACP (Royal  
Australasian College of Physicians,

1987) and is a fellow of the Cardiac Society of Australia and New Zealand. His principal interest is in general clinical cardiology, both invasive and non-invasive. Having been in clinical practice as a cardiologist for over 20 years he believes communication is the key to successful outcomes. He is also actively involved with service delivery planning for the Northern Beaches to achieve improved health services for the local residents.



## PROF. MICHAEL VALLEY

Prof. Michael Valley is a leading  
cardiothoracic surgeon with clinical  
appointments at The Northern  
Beaches, Macquarie University,  
The Mater and John Flynn Private  
Hospitals. Professor Valley has a

special interest in elderly and high-risk patients with multiple medical issues. He has particular expertise in total-arterial anaortic off-pump surgery, transcatheter heart valve surgery and minimally invasive heart and lung surgery. He holds Clinical Professorships at The University of Sydney and Macquarie University and is a Senior Health Advisor with The Boston Consulting Group.



## DR. MICHAEL SECO

Michael is a cardiothoracic surgery  
registrar at RNSH, Sydney. He  
performs research in minimally  
invasive and robotic surgery.



### DR. SEAN LAL

Sean is a Clinical Academic Cardiologist at Royal Prince Alfred Hospital and The University of Sydney. He is a Lecturer in visceral anatomy and the Course Coordinator for cardiac, endocrine, abdominal, pelvic and renal anatomy for

the Sydney Medical School. He is the Chair of the Cardiovascular Theme for the MD Program and the Head of the Cardiac Research Laboratory in the School of Medical Sciences, which focuses on basic science and translational research into human heart failure.



### PROF. LIZA THOMAS

Prof. Liza Thomas is Conjoint Prof. at Sydney University and University of NSW and Clinical Lead for non invasive cardiac imaging at Westmead Hospital. Her research focuses on echocardiography; specific interests include assessment

of atrial dynamics and function, diastolic function, chemotherapy induced cardiomyopathy, amyloid and Fabry cardiomyopathies and cardiac involvement in chronic kidney disease. Professor Thomas is actively involved in undergraduate/postgraduate medical student and sonographer education. She supervises PhD and Masters students. Liza has been invited to speak at numerous national and international meetings and has published more than 120 papers in peer-reviewed journals.



### DR. IMRE HUNYOR

Dr. Hunyor is a Staff Cardiologist and Imaging Specialist based at Royal Prince Alfred Hospital and Central Sydney Cardiology. His primary doctoral research was in the field of cardiac energetics, metabolism and heart failure under the supervision of

Professor Stefan Neubauer at the University of Oxford. His imaging expertise in MRI, CT and Echocardiography supports services in arrhythmia, congenital, genetic and structural heart disease. He is the Network Director of Physician Training at RPAH and Clinical Senior Lecturer, University of Sydney Medical School.



### A/PROF. RAJ PURANIK

A/Prof. Raj Puranik MB BS PhD FRACP was a Neil Hamilton Fairley NHMRC/NHFA Post-doctoral Fellow in cardiovascular magnetic resonance. Consultant in Cardiovascular MR at RPAH,

Specialist MRI, Westmead Children's Hospital and University of Sydney. He established CMRS which has developed research programs and has performed 5000 cardiac scans since 2008 (approx 450-500 per annum). A/Prof Puranik runs a Level III co-reporting model with radiologists with synergistic interests. He has trained over 20 clinical or research fellows over the past 10 years in various aspects of CMR. His research interests have focused on Congenital heart disease, with a recent priority to exercise MR techniques.



### DR. EDWINA WING-LUN

Edwina Wing-Lun received her B.Sci Advanced and M.B.,B.S with Honours from Sydney University and was a founding member of a charity which built series of projects from medical centres in Uganda

to education in Arnhem Land. She completed her cardiology and interventional cardiology training through the St Vincent's network, Sydney which allowed her the opportunity to work rurally and remotely. She is now a consultant and interventional cardiologist at The Royal Darwin Hospital, which complements her long-standing interest and contribution to rural, remote and developing world medicine.



### DR. GUIDO CLAESSEN

Guido Claessen is an early career researcher in the field of sports cardiology and cardiac imaging. He graduated as an MD in 2010 at KU Leuven and defended his PhD entitled "Evaluation of right

ventricular function during exercise in athletes and in patients with pulmonary hypertension" in 2015. An important focus of Guido's research is the integration of exercise evaluation into the clinical management of patients with cardiovascular disease. Since October 2018, Guido is working as a post-doctoral research fellow in Baker Heart and Diabetes Institute under the scientific mentorship of Prof. Andre La Gerche.



### DR. SARA HUNGERFORD

Consultant physician and cardiologist with previous cardiology experience in Australia and the United Kingdom. Currently completing a structural heart PhD on ventricular remodelling

following aortic and mitral valve interventions supervised by Prof. David Muller and Prof. Christopher Hayward at St Vincent's Hospital, Sydney.



### DR. KATRINA ADORINI

Dr Katrina Adorini has had an interest in pulmonary hypertension ever since being a part of the heart-lung transplantation and pulmonary hypertension group at St Vincent's Hospital in Sydney

almost 10 years ago. She is co-founder of the Sydney Pulmonary Hypertension Specialists, a public clinic at Sydney Adventist Hospital and Macquarie University Hospital. She also has particular interest in heart failure, chemotherapy associated cardiomyopathy, prevention of cardiovascular disease and women's heart health. She is an avid supporter of Hearts and Heals (Heart Foundation) and has a strong commitment to medical education and training with the University of Sydney.



### MIRIAM NORMAN

Miriam Norman is an Echocardiographer and senior Cardiac Device Specialist at the Royal Hobart Hospital. Her qualifications include a MSc (clinical physiology), Dip. of Med. Ultrasound (cardiac) and formal certification as

a Cardiac Device Specialist by the International Board of Heart Rhythm Examiners (IBHRE). She is a current board member of PICSA (Professionals in Cardiac Sciences Australia) and has worked with the Heart Rhythm Society (a leading international resource on cardiac pacing and electrophysiology) to provide online educational material for candidates preparing for the IBHRE accreditation exams.



### A/PROF. CHRISTIAN BRIZARD

Associate Prof. Christian Brizard is the Director of the Cardiac Surgery Unit at the Royal Children's Hospital. Leading a dedicated and highly skilled group of medical professionals, Christian Brizard

and his team perform 700 heart operations per year, with an emphasis on treatment of neonatal and complex congenital cardiac problems. Christian Brizard is conducting experimental heart research with the RCH and MCRI heart research group at the RCH in Melbourne. Christian has a special interest in chord stem cell research in hypoplastic left heart syndrome, umbilical cord stem cells, Fontan physiology, glutaraldehyde and bioprostheses.



### DR. MICHAEL MICHAIL

Dr Michael Michail is a Structural Interventional Fellow at MonashHeart. He has undertaken his cardiology training at Barts Heart Centre, London. He is currently undertaking a PhD at Monash Cardiovascular Research

Centre in collaboration with University College London, UK. His main research interest is coronary physiology, particularly in the context of patients with aortic stenosis.



### DR. HELEN THOMSON

Dr Helen Thomson is a cardiologist at the Heart centre at the Alfred. She completed a PhD in Cardiovascular medicine and did a fellowship in Echocardiography at the Prince

Charles Hospital and at the Mayo Clinic and more recently trained in CTCA. She has a major interest in structural heart disease, particularly valvular heart disease.



### PROF. GEOFFREY STRANGE

Prof. Geoff Strange is currently Professor in the School of Medicine at the University of Notre Dame in Fremantle, Western Australia and a Fellow of the Cardiac Society of Australia and New Zealand. Geoff

is part of the Cardiovascular Research Team at Royal Prince Alfred Hospital in Sydney, he is also the current and founding CEO of the Pulmonary Hypertension Society of Australia and New Zealand (PHSANZ). Geoff is Director and Chief Investigator of the National Echo Database of Australia and New Zealand (NEDA) – the largest echocardiographic database in the world. Geoff's research interests include, Pulmonary Hypertension, Congenital Heart Disease and Echocardiography. Geoff has established the Congenital Heart Alliance of Australia and New Zealand, a research entity spanning fifteen centres across the region and is also Chief Investigator of the PHSANZ Pulmonary Hypertension Registry.



### PROF. DAVID MCGIFFIN

Prof. David McGiffin graduated from UQ Medical School, interned and trained in General Surgery at Princess Alexandra Hospital, before training in Cardiothoracic Surgery at the Prince Charles Hospital. In

1982, he went USA as a Fulbright Scholar, undertook a Fellowship and became faculty at the University of Alabama. Returned to Australia in 1986 to The Prince Charles Hospital where he did adult and paediatric cardiac surgery and also set up the Queensland Heart Transplant Program. In 1992, Professor McGiffin returned to UAB where his clinic duties included the full range of adult cardiac surgery and heart and lung transplantation. Prof. McGiffin returned to Australia 2013 as Director of Cardiothoracic Surgery at Alfred Hospital. His clinical practice includes adult cardiac surgery, heart and lung transplantation, ventricular assist devices and pulmonary endarterectomy.



### DR. GARRICK DON

Dr Garrick Don is a Respiratory & Sleep Physician, who received undergraduate degrees in both Medical Science and Medicine from the University of Sydney, graduating with Honours in both degrees. He undertook Advanced Physician.

Training at both Westmead and

Royal Prince Alfred Hospitals, and was awarded his Fellowship in Respiratory & Sleep Medicine in 2011.



### PROF. JONATHAN CHAN

Prof. Jonathan Chan is Professor of Cardiology at Griffith University, Senior Staff Specialist at The Prince Charles Hospital, and Director of Echocardiography at Gold Coast Heart Centre in Queensland.

He has special interest in multi-modality cardiac imaging. He has been awarded a PhD in Medicine with research focused on the application of myocardial strain and speckle tracking echocardiography.



### DR. DAVID BOSHELL

Dr. Boshell is a vascular and interventional radiologist at Sydney Adventist Hospital and St Vincent's Hospitals, and a member of Sydney Interventional Radiology. Special interests include interventional oncology therapy, endovascular

treatment of peripheral vascular disease, venous thromboembolism, pulmonary vascular disease, dialysis fistula maintenance, thrombolysis, embolisation therapy and percutaneous tumour ablation.



### MR. AUBREY ALMEIDA

Aubrey graduated from University of Melbourne in 1986. Following four years of military service he commenced surgical training. He undertook a fellowship at Mayo Clinic in 2000. He commenced

as a Consultant Cardiothoracic surgeon at Monash Medical Centre in 2001. Aubrey is a pioneer of robotic surgery in Australia. He is the President of ANZSCTS and deputy chair of the Epworth Cardiac Institute. He is an examiner for the RACS. He has interests in valvular heart disease, minimally invasive surgery, adult congenital heart disease and surgical education.



### DR. MIKHAIL ALTMAN

Dr. Mikhail is a consultant cardiologist at Westmead Hospital with an academic position at the University of Sydney. Trained at PA Hospital in Brisbane and FMC in Adelaide. DDU in cardiac ultrasound

with PhD from Université Paris-Est in deformation imaging in cardiomyopathy. Current interest include cardiac imaging, valvular heart disease and heart failure management.



### JACINTA NATHAN

Jacinta is currently on maternity leave from her position as Deputy Chief Cardiac Technologist at The Alfred Hospital in Melbourne and is working casually with Victoria Heart and Victorian Cardiovascular Services. Jacinta has been working

in the field for 14 years and has post-graduate qualifications in cardiac ultrasound, electrophysiology and cardiac devices. Jacinta has had multiple abstracts accepted at the Cardiac Society of Australia and New Zealand (CSANZ) scientific sessions, has been an invited speaker at numerous conferences and has performed live scanning at multiple SHDA workshops. Jacinta's main interest is in structural heart disease intervention, heart failure and cardiac transplantation.



### ROB CHAMBERLAIN

Rob is an Advanced Cardiac Scientist in the Echocardiography lab at The Prince Charles Hospital. Rob has a strong clinical background in all aspects of cardiac sciences from the UK and NSW. Rob is currently supplementing his clinical workload by undertaking

advanced echocardiography research using speckle tracking strain and training in-house echo students which allows an interest of integrating and training staff in advanced echocardiographic imaging into clinical practice.



### PAULA BROWN

Paula Brown is a Senior Cardiac Sonographer and Head of Echocardiography at Westmead Hospital in Sydney. She trained at the University of Sydney and has a strong interest in research, with her main

focus on atrial mechanics, deformation imaging, and right heart pathophysiology.

### NOTES:

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