

Monday 1 May 2017

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| 12.00 - 2.30pm | SCHOOL PROGRAM in Partnership with the International Conference on Biophotonics |
| 12.00 - 12.45pm | Meet the Naked Scientist Dr Chris Smith , with Professor Lyn Beazley , Sir Walter Murdoch Distinguished Professor of Science, Murdoch University and Dr Stephen K Robinson , University of California Davis and former NASA Astronaut |
| 1.00 - 2.30pm | Origami Microscope: <i>A hands on activity for kids to build up their own optical microscope using very simple components, including a sheet of paper and a lens</i> |
| | Seeing Beneath Your Skin with Light: <i>A short introduction to optical coherence tomography - an imaging technique that employs light to deliver three-dimensional images of the eye, skin, and other tissues</i> |
| | How Safe is My Green Laser Pointer?: <i>A lesson on how dangerous the cheap green laser pointers can be, and the difference between green laser pointers and lasers</i> |
| 5.30 - 7.30pm | WELCOME RECEPTION at Bathers Beach House |
| | Welcome by Her Excellency the Honourable Kerry Sanderson AC , Governor of Western Australia <i>Includes Drinks and Canapés</i> Sponsored by Perron Institute |

Day 1 – Tuesday 2 May 2017

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| 8.00 - 8.45am | Conference Opening & Welcome to Country |
| | Welcome to Country by Dr Richard Walley OAM Welcome by Conference Co-Chairs Professor David Morrison and Professor John Challis Formal Conference Opening by The Honourable Roger Cook MLA , Deputy Premier; Minister for Health; Mental Health |
| 8.45 - 9.30am | Opening Keynote |
| | Nobel Laureate Professor Barry Marshall, AC <i>How Advances in Technology Enable Unexpected Breakthroughs in Medicine: Examples from the 2005 Nobel Prize</i> |
| 9.30 - 10.00am | Morning Tea |
| 10.00 - 11.40am | Session 1: ONE HEALTH: Microbiome & Infection |
| 10.00 - 10.40am | Professor Jeremy Nicholson , Head, Department of Surgery & Cancer, Imperial College, London <i>Microbiome-Host Interactions and their Healthcare Implications</i> |
| 10.40 - 11.05am | Professor Una Ryan , Biochemistry, Murdoch University, Perth <i>Lyme-Like Disease in Australia: A Tick-Borne Illness?</i> |
| 11.05 - 11.30am | Professor Katherine Kedzierska , Head, Human T cell Lab, Doherty Institute, Melbourne <i>Immunity to a New Avian Influenza Virus H7N9</i> |
| 11.30 - 11.40am | <i>Speaker Q&A</i> |
| 11.40 - 12.15pm | Presentation by Dr Stephen K Robinson , Professor & Chair, UC Davis Department of Mechanical and Aerospace Engineering and Director, UC Davis Center for Human/Robotics/Vehicle Integration and Performance (and former NASA Astronaut), USA <i>Life and Science Aboard the International Space Station</i> |
| 12.15 - 1.00pm | Lunch |
| 1.00 - 2.40pm | Session 2: ONE HEALTH: Probiotics and Infectious Diseases |
| 1.00 - 1.35pm | Professor Elaine Holmes , Head, Division of Computational & Systems Medicine, Imperial College, London <i>Metabolic Phenotyping and Precision Medicine</i> |
| 1.35 - 2.05pm | Professor Charlie Xiang , Associate Director State Key Laboratory for Diagnosis and Treatment of Infectious Diseases, Zhejiang University, China <i>Gut Microbiota: A New Territory of Therapeutic Targeting for Infectious Diseases?</i> |
| 2.05 - 2.30pm | Professor Karen Simmer , Co-Director, Centre for Neonatal Research & Education, UWA, Perth <i>Strategies to Reduce Infections, Inflammation and Disability in Preterm Infants</i> |
| 2.30 - 2.40pm | <i>Speaker Q&A</i> |
| 2.40 - 3.00pm | Afternoon Tea |

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| 3.00 - 4.40pm | Session 3: ONE HEALTH: Biobanking |
| 3.00 - 3.30pm | Professor Nancy J Cox , Director, Vanderbilt Genetics Institute, Nashville Tennessee, USA <i>Biobanks Allow New Kinds of Discovery and Translation</i> |
| 3.30 - 4.00pm | Professor Masayuki Yamamoto , Medical Biochemistry, Tohoku University Graduate School of Medicine, Japan <i>Tohoku Medical Megabank Project: A National Challenge to Realize Personalized Medicine</i> |
| 4.00 - 4.30pm | Mr Simon Denegri , National Director for Patients and the Public in Research, National Institute for Health Research (NIHR) and Chair, INVOLVE, UK <i>The Public's Role in Doing Better Research: The UK Experience</i> |
| 4.30 - 4.40pm | Speaker Q&A |
| 4.30 - 6.00pm | Early Career Researcher / Student Networking Event <i>Suitable for ECR and Students Only</i> <i>Includes Drinks & Canapés</i> |
| 6.00 - 7.00pm | 60th Anniversary Raine Foundation Oration by Professor Ian Frazer AC , President, Australian Academy of Health and Medical Science and Australian of the Year 2006 <i>Translating Research into Practice: Lessons I've Learnt</i> |

Day 2 – Wednesday 3 May 2017

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| 8.00 - 10.00am | Session 4: ONE HEALTH: Infectious Diseases |
| 8.00 - 8.30am | Professor Christopher Dye , Director of Strategy, World Health Organisation, Geneva, Switzerland <i>One Health for Sustainable Development</i> |
| 8.30 - 9.00am | Dr Chris Smith , The Naked Scientist, UK and Sir Walter Murdoch Distinguished Adjunct Professor, Public Education of Science, Murdoch University, Perth <i>Public Knowledge and Private Behaviour: Communicating Science to Manage Highly Infectious Disease</i> |
| 9.00 - 9.25am | Professor Tim Davis , Head of Medicine and Pharmacology, Fremantle Hospital, Perth <i>Current and Future Issues in the Treatment of Malaria</i> |
| 9.25 - 9.50am | Associate Professor Michaela Lucas , Clinical Associate Professor, School of Pathology and Laboratory Medicine, UWA, Perth <i>Antibiotic Allergy: Putting the Genie Back into the Bottle</i> |
| 9.50 - 10.00 | Speaker Q&A |
| 10.00 - 10.20am | Morning Tea |
| 10.20 - 12.10pm | Session 5: ONE HEALTH: Cancer - Big Science, Multidisciplinary, Multinational Approaches |
| 10.20 - 10.45am | Dr Ramanuj Dasgupta , Group Leader, A*Star Genome Institute of Singapore <i>Phenotype-Driven Precision Oncology (PDPO): Guiding Clinical Decisions One Patient At-A-Time</i> |
| 10.45 - 11.10am | Professor Eric Moses , Director, Centre for Genetic Origins of Health and Disease, UWA, Perth and Curtin University, Perth <i>Unlocking the Genetic Potential of the Busselton Health Study: Novel Gene Discovery for Breast Cancer</i> |
| 11.10 - 11.35am | Professor Alistair Forrest , Head, Systems Biology and Genomics, Harry Perkins Institute of Medical Research, Perth <i>An Atlas of Human Long Non-Coding RNAs</i> |
| 11.35 - 12.00pm | Dr Gopal Kundu , Scientist 'G' National Centre for Cell Science, Pune University Campus, India <i>Notch-1 Regulates CD133+ Cancer Stem Cell-Mediated Melanoma Growth and Lung Metastasis</i> |
| 12.00 - 12.10pm | Speaker Q&A |
| 12.10 - 12.35pm | Presentation by Professor Michael Bunce , Distinguished Research Fellow, Curtin University, Perth <i>From Fossils to Faeces: The Many and Varied Applications of Characterising Ancient, Degraded and Trace DNA</i> |
| 12.35 - 1.25pm | Lunch |
| 1.25 - 3.20pm | Session 6: ONE HEALTH: The Emerging Science of Personalised Medicine |
| 1.25 - 1.50pm | Professor Elizabeth Jane Phillips , M.D. Vanderbilt University School of Medicine, USA and Murdoch University, Perth <i>Prevention of Serious Immunologically Mediated Adverse Drug Reactions as a Model for Personalised Medicine</i> |
| 1.50 - 2.15pm | Professor Lin Fritschi , John Curtin Distinguished Professor, Epidemiology and Biostatistics, Curtin University, Perth <i>Cancer and the Environment</i> |
| 2.15 - 2.40pm | Professor Tim Inglis , Pathology & Laboratory Medicine, UWA, Perth <i>The Person-Environment Interaction: The Emerging Science of Personalised Medicine</i> |
| 2.40 - 3.05pm | Associate Professor Deborah Strickland , Head, Experimental Asthma Research Group, Telethon Kids Institute, Perth <i>Impact of Early Life Exposures in Immunological Development: Changing Pathways into the Future</i> |
| 3.05 - 3.15pm | Speaker Q&A |
| 3.15 - 3.35pm | Afternoon Tea |

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| 3.35 - 5.05pm | Session 7: ONE HEALTH: Parasites and Infectious Diseases |
| 3.35 - 4.00pm | Dr Annette MacLeod , Welcome Trust Senior Research Fellow, University of Glasgow, UK <i>An Anatomical Reservoir of Trypanosome Infections: The Key to Understanding Transmission and Disease Pathology</i> |
| 4.00 - 4.20pm | Dr Mia Carbon , Chief Veterinary Officer, Livestock Biosecurity, Department of Agriculture and Food, Perth <i>The Role of the Veterinarian in One Health</i> |
| 4.20 - 4.45pm | Dr Mark Schipp , Chief Veterinary Officer of Australia, Canberra <i>Wildlife Health Surveillance, Emerging Issues and One Health in Australia</i> |
| 4.45 - 5.05pm | Dr Julie Makani , Principal Investigator, Visiting Fellow and Consultant Physician, Tanzania |
| 5.05 - 5.15pm | Speaker Q&A |
| 6.30 - 10.30pm | CONFERENCE DINNER |
| | Welcome Address by Professor David Morrison & Professor Geoff Laurent Dinner Presentation by Professor Carmen Lawrence , Former Premier of Western Australia, School of Psychology, UWA and Dr Robyn Williams , AM, Science Journalist and Broadcaster, The Science Show and Ockham's Razor Live music by Powerhouse Sponsored by ANSTO |

Day 3 – Thursday 4 May 2017

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| 8.30 - 10.10am | Session 8: ONE HEALTH: Technologies that Impact Globally |
| 8.30 - 9.00am | Dr Eugene Arthurs , Executive Director, SPIE, The International Society for Optics and Photonics, Washington State, USA <i>Light Based Instrumentation for Health: New Promise, New Problems</i> |
| 9.00 - 9.30am | Professor Russell Foster , Head, Nuffield Laboratory of Ophthalmology & the Sleep and Circadian Neuroscience Institute, University of Oxford, UK <i>Sleep: Pathway to Health</i> |
| 9.30 - 10.00am | Emeritus Professor Alan Mackay-Sim , Director, Griffith Institute for Drug Discovery, QLD and Australian of the Year 2017 <i>The Impact of Stem Cells and Regenerative Medicine</i> |
| 10.00 - 10.10am | Speaker Q&A |
| 10.10 - 10.30am | Morning Tea |
| 10.30 - 11.30am | Closing Keynote |
| | Professor Ian Frazer AC , President, Australian Academy of Health and Medical Science and Australian of the Year 2006 |
| 11.30 - 12.00pm | Poster Prize Presentation and Formal Conference Close |
| 12.00 - 1.00pm | Lunch |

Concurrent Symposia and AAHMS Workshop

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| 1.00 - 3.00pm | SYMPOSIUM 1: STEM CELLS: Challenges that Face Translation |
| | Emeritus Professor Alan Mackay-Sim , Director, Griffith Institute for Drug Discovery, QLD and Australian of the Year 2017 |
| | Associate Professor Pritinder Kaur , Biomedical Sciences, Curtin University, Perth |
| | Associate Professor Megan Munsie , Policy and Outreach Manager and Head of Education, Ethics, Law & Community Awareness Unit, University of Melbourne |
| 1.00 - 3.00pm | SYMPOSIUM 2: International Collaborations |
| | <i>Overview and Chair</i> Professor Ian Frazer AC , President, Australian Academy of Health and Medical Science and Australian of the Year 2006 |
| | <i>Speakers include: Dr Richard Lipscombe, Professor Charlie Xiang, Professor Nancy Cox, Dr Julie Makani and Dr Ramanuj Dasgupta</i> Q&A |
| 2.45 - 3.15pm | Afternoon Tea |
| 3.00 - 5.00pm | WORKSHOP: AUSTRALIAN ACADEMY OF HEALTH AND MEDICAL SCIENCE: Career as a Clinician Scientist |
| | Professor Ian Frazer AC , President, Australian Academy of Health and Medical Science and Australian of the Year 2006 |
| | Professor Fiona Wood FRCS, FRACS, AM , Professor, School of Surgery, UWA, Perth |
| | Professor Gary Geelhoed , Chief Medical Officer, Western Australia |
| | Q&A |
| 6.30 - 7.30pm | PUBLIC LECTURE presented by Healthway, City of Perth Library and Science on the Swan <i>Held at Perth Town Hall</i> |
| | Dr Chris Smith , The Naked Scientist, UK and Sir Walter Murdoch Distinguished Adjunct Professor, Public Education of Science, Murdoch University, Perth, with WA Chief Scientist, Professor Peter Klinken <i>Health Advice: Separating Fact from Fiction</i> |