

ANS Plenary Lecturers

2016 Hobart

- International Plenary: Michael Hausser (University College London)
- Eccles Plenary Lecturer: Jeffrey Rosenfeld (Monash University)
- The ANS Plenary Lecture: Massimo Hilliard (University of Queensland) "Axonal fusion: an alternative mechanism to repair injured axons."
- The Lawrie Austin Plenary Lecturer: David Small (University of Tasmania) "Emerging ideas in Alzheimer's disease research: Abeta, APP and neural network dysfunction."

2015 Cairns

- Lawrie Austin Lecture: Ashley Bush "Iron in Alzheimer's disease and Parkinson's disease"
- Eccles Lecture: Robert Vink "Increased intracranial pressure after acute CNS injury: a basic scientist's perspective of a clinical problem"

2014 Adelaide

- ANS Plenary Lecture: Marcello Costa "20/20 hindsight in neurogastroenterology"
- ANS Overseas Plenary Lecture: Moses Chao (USA) "The future of neurotrophic factors "
- Lawrie Austin Lecture: Trevor Kilpatrick "Unravelling the neurobiology of MS"
- Eccles Lecture: Perry Bartlett "Producing new neurons in the adult brain: how is it regulated and what is the use?"

2013 Melbourne

- ANS Plenary Lecture: Margaret Morris "Food on the brain"
- ANS Overseas Plenary Lecture: Nancy Ip (Hong Kong) "Elucidating receptor tyrosine kinase-dependent signalling in neural circuit assembly and plasticity"
- Lawrie Austin Lecture: Paul Martin "Colour vision, colour blindness and the importance of an eye for detail"
- Eccles Lecture: Ingrid Scheffer "Deciphering the epilepsy genome and its impact on clinical practice"

2012 Gold Coast

- ANS Plenary Lecture: Heather Young "Generating enteric neurons during development and for cell therapy"
- ANS Overseas Plenary Lecture: Feng Zhang (USA) "Optogenetics: development and applications"
- Lawrie Austin Lecture: Janusz Lipski "A brief history of the nigral dopaminergic neurone, LDOPA and TRPM2 channel: considerations for Parkinson's disease"
- Eccles Lecture: Marcus Stoodley "Elucidating the pathophysiology of syringomyelia"

2011 Auckland

- ANS Plenary Lecture: Seong-Seng Tan "Mechanisms underpinning neuron survival following brain injury"
- Overseas Plenary Lecture: Tobias Bonhoeffer (Germany) "How activity changes synapses in the mammalian brain"
- Lawrie Austin Lecture: Peter Dunkley "Catecholamine synthesis in response to stress: the timing of tyrosine hydroxylase phosphorylation is everything"
- Eccles Lecture: Terence O'Brien "New approaches to treat the sacred disease"

2010 Sydney (joint meeting with the Australian Physiological Society)

- ANS Plenary Lecture: Herbert Herzog "The role of NPY in health and disease: insights from transgenic and knockout models"
- ANS/AuPS Overseas Plenary Lecture: Gilles Laurent (Germany) "Circuits and dynamics for olfactory coding"
- AuPS Invited Lecture: David Adams "Analgesic conotoxins modulating pain pathways"
- The Physiological Society (UK) Exchange Lecture: David Attwell "Brain power: how the brain's energy supply determines the computational power of neurons"

2009 Canberra

- ANS Plenary Lecture: Greg Stuart "The action potential"
- ANS Overseas Plenary Lecture: Matthew Wilson (USA) "Sequential event memory formation and reactivation in the hippocampus and beyond"
- Eccles Lecture: Peter Reilly "Neurotrauma management – prevention, protection and repair"
- Lawrie Austin Lecture: Phil Beart "Adventures in neurochemistry: people, places and puzzles"

2008 Hobart

- ANS Plenary Lecture: Phil Robinson "Dynamin: linking endocytosis to synaptic transmission"
- ANS Overseas Lecture: Carla Shatz (USA) "Tuning up circuits: brain waves and immune genes"
- Eccles Lecture: Gary Egan "Investigating dynamical brain networks using high resolution structural and functional MRI"
- ANS Lawrie Austin Lecture: Macdonald Christie "Neural mechanisms of opioid tolerance and dependence"

2007 Melbourne (joint meeting with the IBRO Congress of Neuroscience)

- ANS Plenary Lecture: Mandyam Srinivasan "Small brains, smart minds: vision, navigation, and "cognition" in honeybees, and applications to robotics"
- ANS Overseas Lecture: Lily Jan (USA) "Potassium channels"
- Eccles Lecture: not held
- ANS Lawrie Austin Lecture: not held

2006 Sydney

- ANS Plenary Lecture: Sarah Dunlop "Promoting recovery after CNS and PNS injury"
- ANS Overseas Lecture: Clifford Saper (USA) "Hypothalamic regulation of sleep and circadian rhythms"
- Eccles Lecture: Frank Mastaglia "Transcranial brain stimulation: the past, the present and the future"
- ANS Lawrie Austin Lecture: Ian Gibbins "Somewhere over the neurochemical rainbow: synaptic heterogeneity, Schwann cells and slow transmission"

2005 Perth

- ANS Plenary Lecture: Bruce Walmsley "From ear to eternity: unlocking fundamental synaptic and neuronal mechanisms in the auditory pathways of the brain"
- ANS Overseas Lecture: Larry Swanson (USA) "Cerebral hemisphere networks controlling motivation and emotion"
- Eccles Lecture: Pankaj Sah "Synaptic transmission and plasticity in the amygdala: a cellular model for fear conditioning"
- ANS Lawrie Austin Lecture: Ida Llewellyn-Smith "Unravelling spinal circuits that control autonomic function"
- Special Lecture: Istvan Mody (USA) "Tonic inhibition in the crosshairs of hormones and drugs"

2004 Melbourne

- ANS Plenary Lecture: Peter Schofield "The inhibitory glycine receptor: molecular studies of structure, function and disease"
- ANS Overseas Lecture: Eric Kandel (USA) "The long and short of long term memory"
- Eccles Lecture: Andrew Kaye "The biology and treatment of cerebral glioma"
- ANS Lawrie Austin Lecture: Glenda Halliday "Neurodegenerative dementias: dysfunction due to neuron loss, glial changes or protein aggregates"
- Special Lecture: Robert Desimore (USA) "Top and bottom-up neural mechanisms for attention selection in visual cortex"

2003 Adelaide

- ANS Plenary Lecture: Colin Masters "Molecular dissection of the pathways leading to Alzheimer's disease"
- ANS Overseas Lecture: Robert Malenka (USA) "Synaptic plasticity: the brain's response to experience"
- Eccles Lecture: Richard Faull "Stem cells in the adult human brain"
- ANS Lawrie Austin Lecture: David Adams "A cone snail's view of the nervous system"
- Overseas Lecture: Jean-Pierre Changeux "The acetylcholine nicotinic receptor: an allosteric protein involved in intercellular communication"

2002 Sydney

- ANS Plenary Lecture: Peter Gage “A reductionist approach to electrical activity in the nervous system”
- ANS Overseas Lecture: Mu-ming Poo (USA) “Neuronal plasticity at growth cones and synapses”
- Eccles Lecture: Sam Berkovic “Genetic and acquired causes of epilepsies: is there a common neurobiological substrate?”
- ANS Lawrie Austin Lecture: John Rostas “Molecular interactions at synapses that modify neuronal activity”

2001 Brisbane

- ANS Plenary Lecture: Elspeth McLachlan “Synaptic transmission in sympathetic ganglia and its modification after injury to the nervous system”
- ANS Overseas Lecture: Marc Tessier-Lavigne (USA) “Wiring the brain: molecular mechanisms of axon guidance in vertebrates”
- Eccles Lecture: Fred Mendelsohn “The role of brain angiotensin systems in central homeostatic mechanisms”
- FASTS Lecture: Mandyam Srinivasan “Small brains, smart minds: insect vision, navigation and cognition”
- APSN Plenary Lecture: Max Recasens (France) “Brain plasticity and changes in neurotransmitter phenotype”
- APSN Plenary Lecture: Katsuhiko Mikoshiba (Japan) “IP3 receptor/Ca²⁺ channel: a key molecule in development and plasticity”

2000 Melbourne

- ANS Plenary Lecture: Perry Bartlett “From a stem cell to a dead cell: regulating the life of a neuron”
- ANS Overseas Lecture: Mriganka Sur (USA) “Rewiring cortex: patterned activity and the development of cortical networks”
- Eccles Lecture: Michael Cousins “Persistent pain: a disease entity?”

1999 Hobart

- ANS Plenary Lecture: Judy Morris “Co-transmission and cardiovascular control: rewriting the rules”
- ANS Overseas Lecture: Bill Newsome (USA) “Seeing motion in depth: from neural circuits to perceptual decisions”
- Eccles Lecture: Simon Gandevia “From motor commands to motoneurons”
- FASTS Lecture: Graeme Clark “The bionic ear in the second and third millennia”
- Special Plenary Lecture: John Nicholls (Italy) “Contributions of neurobiology to clinical neurology”
- Special Plenary Lecture: John Steeves (Canada) “CNS repair: what are the goals and where has there been progress”
- FASTS Lecture: Sandra Rees “Brain development during pregnancy: what happens when things go wrong”

1998 Canberra

- ANS Plenary Lecture: Dexter Irvine "Functional organisation and reorganisation in auditory cortex"
- ANS Overseas Lecture: Bert Sakmann "Grey matter(s)?"
- Eccles Lecture: M.J. Fulham "Functional imaging in the neurosciences: the role of PET, MR and SPECT"
- FASTS Lecture: Graham Johnston "A chemist's look at the brain"

1997 Newcastle

- ANS Plenary Lecture: Mark Rowe "The brain and sensation: organisation and processing for touch and kinaesthesia"
- ANS Overseas Lecture: Denis Baylor "Cellular mechanisms of single photon detection"
- Eccles Lecture: John Willoughby "Generalised epilepsy: possible mechanisms"
- FASTS Lecture: Jonathon Stone "Death and survival in the nervous system: our increasing understanding of neurodegenerative diseases"
- ANS Special Guest Lecture: Howard Schulman "Spatial and temporal regulation of calcium signalling"

1996 Adelaide

- ANS Plenary Lecture: Wickliffe Abraham (New Zealand) "Metaplasticity: the activitydependent regulation of synaptic plasticity"
- ANS Overseas Lecture: Geoff Burnstock (UK) "Purinergic receptors"
- Eccles Lecture: John Morris "The art and science of clinical observation"
- FASTS Lecture: John Chalmers "Brain and blood pressure"

1995 Perth

- ANS Plenary Lecture: Richard Mark "Development of sensory pathways in a mammalian brain: anatomy and physiology"
- ANS Overseas Lecture: Albert Aguayo (Canada) "Survival regrowth and reconnection of injured neurons in the adult mammalian brain"
- Eccles Lecture: Bill Blessing "Just one nervous system"
- FASTS Lecture: Richard Faull "Neurological diseases and neural transplantation"

1994 Sydney

- ANS Plenary Lecture: David Vaney "The neuronal architecture of the mammalian retina"
- ANS Overseas Lecture: Jack McMahan (USA) "Composition and function of the matrix insynaptic cleft"
- ANS Special Guest Lecture: Trevor Lamb (UK) "Signalling in G-protein cascades: the photoreceptor as an example"
- ANS Guest Lecture: Timothy Bliss (UK) "Retrograde messengers in long-term potentiation"
- Eccles Lecture: Peter Blumbergs "Traumatic axonal injury"
- FASTS Lecture: Clive Harper "Are we drinking our neurones away?"

1993 Melbourne

- ANS Plenary Lecture: Marcello Costa "The enteric nervous system"
- ANS Overseas Lecture: Stanley B. Prusiner (USA) "Chemistry and biology of prion diseases"
- ANS Special Guest Lecture: Jack Feldman (USA) "Rhythmic pattern generators: cellular and synaptic mechanisms underlying breathing movements"
- Eccles Lecture: Ian McCloskey "Postural stabilizing reflexes in humans"
- FASTS Lecture: Colin L. Masters "The enigma of amyloid in the causation of Alzheimer's disease"

1992 Adelaide

- ANS Plenary Lecture: David Hirst "Neuroeffector transmission in the nervous system"
- ANS Overseas Lecture: Bertil Hille (USA) "G protein-coupled receptors, channels, modulation and mood"
- FASTS Lecture: Jim Lance "Consequences of neurology to the health of the nation"
- ANS Special Guest Lecture: Hugh Perry (UK) "The role of macrophages in degeneration and regeneration in the peripheral nervous system"

1991 Dunedin

- ANS Plenary Lecture: Ian McCloskey "Experiments on human motor control"

1990 Queensland

- ANS Plenary Lecture: David Curtis "Micropharmacology of central synaptic terminals" (Delivered in 1991)
- ANS Overseas Lecture: Roger Nicoll (USA) "Mechanisms underlying long-term potentiation: a cellular model for memory"
- ANS Overseas Lecture: J.M. Ritchie (USA) "Ion channels in Schwann and glial cells"
- ISN Visiting Lecture: Bernard Agranoff (USA) "Biochemistry of second messengers"

1989 Monash

- ANS Plenary Lecture: Lyn Beazley "Development of the visual system"

1988 Canberra

- ANS Plenary Lecture: John Furness "Structure, neurochemistry and function of the enteric nervous system"

1987 Newcastle

- ANS Plenary Lecture: John Pettigrew "Ramblings in comparative neuroscience"
- ISN Visiting Lecture: Wallem Gispen "Phosphoprotein B50 in neuronal function"

1986 Perth

- ANS Plenary Lecture: Stephen Redman “Excitatory synaptic transmission in the central nervous system” 1985 Adelaide
- ANS Plenary Lecture: Jonathan Stone “Patterns of retinal embryogenesis”

1984 Canberra

- ANS Plenary Lecture: James Lance “Brain stem control of the cephalic circulation and its possible relation to migraine”

1983 Melbourne

- ANS Plenary Lecture: Max Bennett “The development of neurons and their synaptic connections”

1982 Sydney

- ANS Plenary Lecture: David Cohen “Neural correlates of classical conditioning in the pigeon”

1981 Adelaide

- ANS Plenary Lecture: Hugh Niall “Neuropeptides”