2014 NSA Annual Scientific Meeting
Thursday 2 – Saturday 4 October 2014
Crown Perth Convention Centre
Crown Perth, Perth, Western Australia

Register online www.nsa.org.au
Early Registration Fee Deadline: Sunday 27 July 2014
Guests and Invited Speakers

**Professor Yoko Kato (Japan)**
Professor Yoko Kato is a Professor of Neurosurgery at Fujita Health University in Nagoya, Japan. She is a world renowned vascular Neurosurgeon and a teacher par excellence. She is also the president of Asian Congress of Neurological surgeons and the educational chair for WFNS. She is the founder of AWNA and remains to be an inspiration to women in Neurosurgery. She is also a visiting professor to George Washington University (United States), Mainz University (Mainz, Germany), Sri Ramachandra Medical Univ. (India), First Military Medical University (China), University of the Ryukus Faculty of Medicine, Louisiana State University Health Sciences Center, Department of Neurosurgery (USA).

**Dr Thomas Luebbers (Germany)**
Dr Thomas Luebbers is the head of the spine centre in the neurological department of the Ludwillsstift Hospital in Meppen/Germany. He is an active member in the German spine society and neurosurgical society. In the latter he is dedicated to certify colleagues who want to gain the special spinal certification of the society. In his daily work he is focussed on percutaneous endoscopic surgery on the whole spine. He developed the so called SpineTIP concept covering all aspects of percutaneous endoscopic approaches on the lumbar spine. His scientific objects are strongly related to assess the findings in the lumbar neuroforamen and the Kambin triangle. The clinical and anatomical base for this research are more than 700 surgeries in this special field of PELD.

Proudly Sponsored by

**Dr Guy M. McKhann II (USA)**
Dr. McKhann graduated Phi Beta Kappa and Magna Cum Laude from Duke University, with Research Honors for his investigations into brain tumor immunobiology. He attended Yale School of Medicine where he was AOA, Cum Laude, a Farr Scholar, and one of five recipients of the medical school’s highest thesis award. Dr. McKhann trained in Neurological Surgery at the University of Washington, as well as Atkinson Morley’s Hospital in Wimbledon, England.

Dr. McKhann combines clinical skill and compassionate care to maximize patient outcomes. He treats patients with a variety of brain conditions including Brain Tumors, Epilepsy, Movement Disorders, Adult Hydrocephalus, Chiari Malformations, Cavernous Malformations, Trigeminal Neuralgia, and Neurotrauma. His areas of particular technical expertise include microneurosurgery, computer guided stereotactic neuronavigation, intraoperative awake brain mapping, neuroendoscopy, minimally invasive brain surgery, gamma knife radiosurgery, deep brain stimulation, and cerebrospinal fluid shunting.

Dr. McKhann also works as a translational neuroscientist, running a laboratory that investigates epileptic development and treatment. In addition he helps direct a multidisciplinary team that studies the mechanisms of brain plasticity, recovery, and repair. His basic and clinical research has been funded by the National Institutes of Health, the American Association of Neurological Surgeons, the Klingenstein Foundation, the Charles A. Dana Foundation, the New York Academy of Medicine, Parents Against Childhood Epilepsy, and the Irving Center for Clinical Research.

**Professor Hidehiro Oka (Japan)**
Professor, Department of Neurosurgery, Kitasato University School of Medicine, Japan
Director, Department of Neurosurgery, Kitasato University Medical Center, Japan

Professor Oka graduated from Kitasato University School of Medicine in 1986 and joined the Department of Neurosurgery at the University. He is board certified in Neurosurgery. Professor Oka studied at Mayo Clinic and Mayo Graduate School of Medicine from 1988 – 1998. He conducted research under the guidance of Prof Scheithauer on brain neoplastic pathology including AT/RT and also under the guidance of Prof Lloyd on molecular pathology of pituitary tumour. Subjects of study include hormone receptor gene expression such as PACAP and apoptosis regulation.

In 2000 Professor Oka obtained a Doctor of Medicine degree and from 2000 – 2004 was a Clinical lecturer at Kitasato University School of Medicine. From 2004 to 2007 he was a Lecturer and Chief of Department of Neurosurgery at Kitasato University School of Medicine. In 2007, Professor Oka conducted research at the Department of Neurosurgery, University of Hamburg under the guidance of Prof Ludecke on pituitary surgery. Under the guidance of Prof Pemeczky he conducted research at the University of Mainz, Germany on keyhole surgery. He also conducted research at the University of Zurich, Switzerland under the guidance of Prof Bertalanffy on skull-base surgery.

Professor Oka is currently, director of Neurosurgery, Kitasato University Medical Center. Dr. OKA treats ambulatory patients and performs surgeries at both Kitasato University Hospital and Kitasato University Medical Center.

Proudly Sponsored by

**Dr Yoga Raja Rampersaud (Canada)**
Dr Yoga Raja Rampersaud is an Associate Professor in Surgery at University of Toronto. He joined University Health Network’s Division of Orthopaedic Surgery and Neurosurgery as a consultant in 1999 having completed specialty training at UWO and St. Michael’s Hospitals, Toronto and fellowships in Orthopaedic Spine at UWO and Neurosurgical Spine at University of Tennessee, Memphis. Dr. Rampersaud is a leading surgeon in Canada currently performing and teaching (nationally and internationally) minimally invasive spinal surgery and is published in leading journals. He also recently finished a two year term as the President of the Canadian Spine Society.
Dr Raymond Sawaya (USA)

Dr. Raymond Sawaya is a medical graduate from the University of St. Joseph, in Beirut, Lebanon, and has been a Professor and Chairman of the Department of Neurosurgery at The University of Texas MD Anderson Cancer Center in Houston, Texas since the department was established in 1990. He is also the Director of the Brain Tumor Center at MD Anderson and in 2005 assumed the position of Professor and Chairman of the Department of Neurosurgery at Baylor College of Medicine. He is a former President of the Houston Neurological Society and the past Chairman of the American Association of Neurological Surgeons/Congress of Neurological Surgeons Section on Tumors. Dr. Sawaya is a member of the editorial board of numerous medical journals. He has published more than 250 manuscripts in peer-reviewed journals, and has authored over 40 book chapters, and written and edited 11 books. Dr. Sawaya has expertise in primary and metastatic brain tumors. He is also renowned for his great strides in enhancing the accessibility and safety of brain tumor surgery.

Ms Amanda Forrester (Perth)

Amanda Forrester is a Consultant State Prosecutor with the Office of the Director of Public Prosecutions for the State of Western Australia. She graduated from the University of Western Australia with a Bachelor of Laws in 1995 and has been a prosecutor since 1997, having practiced as a senior prosecutor in both Western Australia and Victoria. She has had extensive experience prosecuting in all areas of criminal law. Currently her role involves prosecuting the most serious and complex criminal cases in Western Australia, particularly the most complex homicide cases. She also appears in the Court of Appeal.

Professor Graeme Hankey (Perth)

Jamieson Memorial Lecturer

Professor Graeme J Hankey, MBBS, MD, FRCP (Lond), FRACP, FAHA is Winthrop Professor of Neurology, School of Medicine and Pharmacology, The University of Western Australia; and a Consultant Neurologist, Sir Charles Gairdner Hospital, Western Australia.

His main research interests include epidemiological studies and clinical trials of strategies for acute stroke treatment and prevention. He and colleagues have been awarded Aus$ 43 million in competitive research grants. His 604 publications have been cited 31,646 times; his H-index is 76 and i10-index 279. He is an author of 10 books (the most recent Hankey's Clinical Neurology, 2nd edition, 2014), 20 book chapters and 12 Guidelines on aspects of stroke and clinical neurology. He has delivered 509 invited lectures at international (n=295), national (n=123), and local (n=91) scientific meetings. He is an editorial consultant for The Lancet and The Lancet Neurology, consulting editor for the International Journal of Stroke, associate editor of Stroke Treatment and Prevention, Section Editor (Neurovascular and Neurodegenerative Diseases) of the Journal of the American College of Cardiology (JACC), and member of the editorial boards of Stroke, the Cochrane Stroke Review Group, Cerebrovascular Diseases, International Journal of Stroke, Practical Neurology, Neuro-epidemiology, International Review of Thrombosis, Cerebrovascular Disease Foreign Medical Sciences, and China Journal of Stroke. He was associate editor (editor for all submissions from the Asia Pacific region) of Stroke from 2000-2010.

Professor Michael Millward (Perth)

Professor Michael Millward is the foundation Chair of Clinical Cancer Research at the University of Western Australia and a Consultant Medical Oncologist at Sir Charles Gairdner Hospital, Perth, Australia since August 2003. His previous appointments include Head of Clinical Research, Sydney Cancer Centre, Royal Prince Alfred Hospital and Consultant Medical Oncologist at Peter MacCallum Cancer Centre, Melbourne. He has a strong track record in delivering clinical trial outcomes, particularly with novel therapeutics and phase I/II studies. He is an international expert on thoracic malignancies and melanoma. Between November 2008 and October 2012 he was the President of the Australasian Lung Cancer Trials Group. He has published >150 original papers and >250 abstracts at International meetings.

Professor Mark Rosenthal (Melbourne)

Professor Mark Rosenthal trained as a Medical Oncologist in Melbourne and Sydney, Australia. He was awarded a Doctorate of Philosophy for a thesis examining the molecular genetics of colon cancer conducted at the Ludwig Institute for Cancer Research. (He completed post-graduate training at New York University Medical Centre, New York, USA and was appointed as a Senior Staff Specialist in the Department of Medical Oncology, Royal Melbourne Hospital in 1988. In 2006, he was appointed Professor Director of the Department. In addition, he is Chairman and Chief Medical Officer of Cancer Trials Australia and is Chairman of the Cooperative Trials Group for Neuro-Oncology (COGNO). His major interests include: neuro-oncology, prostate cancer and early phase clinical trials.

Dr Paul Silberstein (Sydney)

Dr Paul Silberstein is a Senior Staff Specialist Neurologist at the Royal North Shore Hospital and Visiting Medical Officer to North Shore Private Hospital. Dr Silberstein completed Neurology training in Sydney and the Royal Free Hospital, London before undertaking a clinical and research fellowship at the National Hospital for Neurology and Neurosurgery, Queen Square, London where he completed a Doctorate of Medicine. His thesis examined clinical correlations of deep brain recordings in patients with Parkinson’s disease and dystonia. Dr Silberstein’s clinical practice focus is in Deep Brain Stimulation for Parkinson’s disease, tremor, dystonia and Tourette's syndrome. Working as part of a surgical team, his roles are in patient selection, intra-operative targeting, neurophysiologic recording and clinical assessment; and long term programming of implanted stimulators. Dr Silberstein is the lead author to the Australian DBS referral guidelines, and has published in Brain and Nature Neuroscience.
**Provisional Program**  
Correct at the time of printing (July 2014). However, the Meeting Organisers reserve the right to change the program without notice.

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Day 1: Thursday 2 October 2014</strong></td>
<td></td>
</tr>
</tbody>
</table>
| 7.45am – 8.45am | **Breakfast Session**  
Procedural Shifts in Neurosurgery – Early Clinical Results in Robotic Assisted Spine Surgery and Asleep DBS  
Presenters: Dr Jonathon Ball, BMed BMedSc(Hons) FRACS and guest  
This breakfast session will cover procedural shifts in neurosurgery.  
Dr Jonathon Ball is the Head of Department, Neurosurgery at Royal North Shore Hospital.  
Dr Ball is one of the first surgeons in the southern hemisphere to embrace robotic technology in spinal surgery. In his presentation, Dr Ball will explore the technology and how it works, as well as give some insights into his early experience with Robotic guided surgery in his practice.  
The second speaker (TBC) will outline the Asleep DBS technique, and compare the benefits, accuracy and safety of placing electrodes using intraoperative CT while the patient is under general anaesthesia to more traditional methods. |
| 9.00am – 10.45am | **Session 1 – Management of brain metastasis**  
Convener: Christopher Lind  
9.00am Session Opening  
Christopher Lind  
9.05am **Keynote Lecture**  
Surgical management of metastatic brain tumours  
Raymond Sawaya  
9.35am **Keynote Lecture**  
The latest in metastatic melanoma biology and treatment  
Michael Millward  
10.05am Whole brain radiotherapy following local treatment of melanoma brain metastases - Interim analysis  
Kate Drummond  
10.20am Debate: Mode of stereotactic radiosurgery is important and governments should pay  
Mandy Taylor (Radiation Oncologist)  
Chris Harper (Radiation Oncologist)  
John Fuller (NSA President)  
Bob Smee (Radiation Oncologist)  
Grant Gillett (Professor of Philosophy)  
Michael Nicholls QC (Barrister)  
10.45am – 11.15am **Morning Tea with the Industry** |
### Day 1: Thursday 2 October 2014 (cont)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Convener/Presenter</th>
</tr>
</thead>
</table>
| 11.15am – 1.00pm | **Session 2 – Malignant gliomas update**  | **Convener:** Kate Drummond
<p>| 11.15am  | Session Opening                              | <strong>Kate Drummond</strong>                                                                 |
| 11.20am  | Keynote Lecture                               | Malignant glioma - Is there anything new? <strong>Guy McKhann</strong>                           |
| 12.00pm  | Keynote Lecture                               | Neuro-oncology trials in Australia: We need you <strong>Mark Rosenthal</strong>                 |
| 12.20pm  | Quality metric study of real-time targeted massive parallel sequencing (MPS) (Ampliseq Comprehensive Cancer Panel (CCP)) and bioinformatics in glioblastoma multiforme (GBM) using Life Technologies Ion Proton System <strong>Robert Campbell</strong> |
| 12.35pm  | 5-ALA fluorescence guided surgery for GBM improves patient outcomes; Results from an Australian patient series <strong>Michael Colditz</strong> |
| 12.45pm  | LPA signalling stimulates glioma stem cell migration <strong>Wayne Ng</strong> |
| 12.55pm  | Session Closing                              | <strong>Kate Drummond</strong>                                                                 |
| 1.00pm – 2.00pm | Lunch with the Industry                     |                                                                                   |
| 2.00pm – 3.45pm | <strong>Session 3 – The latest developments in neurosurgical research</strong> | <strong>Convener:</strong> Marcus Stoodley                                                      |
| 2.00pm   | Session Opening                              | <strong>Marcus Stoodley</strong>                                                               |
| 2.05pm   | Keynote Lecture                               | Basic research and clinical application of new bipolar system &quot;Vesalius MCNplus” in neurosurgeries <strong>Hidehiro Oka</strong> |
| 2.20pm   | The role of haptoglobin in subarachnoid haemorrhage <strong>Tom Morris</strong> |
| 2.30pm   | Deriving new clinical and pathological information from MRI in syringomyelia <strong>Vannessa Leung</strong> |
| 2.40pm   | Keynote Lecture                               | <strong>Paul Silberstein</strong>                                                             |
| 2.50pm   | Do angle and depth of insonation of transcranial doppler have an effect on the mean index (Mx) of cerebral autoregulation? <strong>Ganeshwaran Shivapathasundram</strong> |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00pm</td>
<td>Evaluation of functional magnetic resonance imaging as a biomarker for pain</td>
<td>Alex Koefmann</td>
</tr>
<tr>
<td>3.10pm</td>
<td><strong>Keynote Lecture</strong>&lt;br&gt;How to treat Grade 2 and 3 Gliomas: Confusion or clarity?</td>
<td>Mark Rosenthal</td>
</tr>
<tr>
<td>3.20pm</td>
<td>A simple transformation of intracranial and arterial blood pressure provides insights into evolving intracranial pathology after traumatic brain injury, subarachnoid haemorrhage or stroke</td>
<td>Adam Wells</td>
</tr>
<tr>
<td>3.30pm</td>
<td>3D data from 2D neuroendoscopy – Proof of concept with optical flow</td>
<td>Sanjaya Perera</td>
</tr>
<tr>
<td>3.40pm</td>
<td>Session Closing</td>
<td>Marcus Stoodley</td>
</tr>
<tr>
<td>3.45pm - 4.15pm</td>
<td><strong>Afternoon Tea with the Industry</strong></td>
<td></td>
</tr>
<tr>
<td>4.15pm – 5.45pm</td>
<td><strong>Concurrent Session 4a: Stereotactic surgery for movement disorders</strong>&lt;br&gt;Convener: Raymond Cook</td>
<td></td>
</tr>
<tr>
<td>4.15pm</td>
<td>Session Opening</td>
<td>Raymond Cook</td>
</tr>
<tr>
<td>4.20pm</td>
<td>Neuropsychological side effects from movement disorder surgery</td>
<td>Christopher Lind</td>
</tr>
<tr>
<td>4.30pm</td>
<td><strong>Keynote Lecture</strong>&lt;br&gt;Neurosurgical treatment of Parkinson’s Disease and Tourette Syndrome</td>
<td>Paul Silberstein</td>
</tr>
<tr>
<td>4.55pm</td>
<td><strong>Keynote Lecture</strong>&lt;br&gt;Emerging indications for DBS (Depression, OCD, Memory, TBI, etc)</td>
<td>Guy McKhann</td>
</tr>
<tr>
<td>5.15pm</td>
<td>The pedunculopontine nucleus story – A journey of discovery in the brain</td>
<td>Terry Coyne</td>
</tr>
<tr>
<td>5.30pm</td>
<td>Convection enhanced delivery enhances the MRI visualization of basal ganglia for stereotactic surgery</td>
<td>Aaron Bond</td>
</tr>
<tr>
<td>5.40pm</td>
<td>Session Closing</td>
<td>Raymond Cook</td>
</tr>
<tr>
<td>4.15pm – 5.45pm</td>
<td><strong>Concurrent Session 4b – Risk Management: Social media risk management</strong>&lt;br&gt;This session will cover both the pitfalls and benefits of using social media in your practice, including looking at how it can benefit your patients.</td>
<td></td>
</tr>
<tr>
<td>6.30pm – 9.30pm</td>
<td><strong>Welcome Dinner</strong>&lt;br&gt;Astral 1 &amp; 2&lt;br&gt;Level 1, Crown Perth Convention Centre</td>
<td></td>
</tr>
</tbody>
</table>
# Day 2: Friday 3 October 2014

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 7.45am – 8.45am | Breakfast Session  
**O-arm® Surgical Imaging with StealthStation® Navigation**  
Proudly sponsored by [Medtronic](#)  |
| 9.00am – 10.45am | **Session 5 – Management of unruptured Spetzler-Martin Grade 1-3 brain AVM**  
Conveners: Edward Mee and Michael Morgan |
| 9.00am       | Session Opening  
Edward Mee and Michael Morgan |
| 9.05am       | Jamieson Memorial Lecture  
The role of RCT in cerebrovascular neurosurgery  
Graham Hankey |
| 9.35am       | Debate: Microsurgery should not be the first choice for unruptured Spetzler-Martin Grade 1 to 3 brain AVM  
**Moderator: Edward Mee** |
| 9.40am       | Debate: Microsurgery should not be the first choice for unruptured Spetzler-Martin Grade 1 to 3 brain AVM  
**Affirmative: Ronald Boet** |
| 9.55am       | Debate: Microsurgery should not be the first choice for unruptured Spetzler-Martin Grade 1 to 3 brain AVM  
**Opposed: Michael Morgan** |
| 10.10am      | Debate: Microsurgery should not be the first choice for unruptured Spetzler-Martin Grade 1 to 3 brain AVM  
**Moderator: Edward Mee** |
| 10.15am      | Incidence, risk factors, etiology, severity, and short-term outcome of non-traumatic intracerebral hemorrhage in young adults  
Riku-Jaakko Koivunen |
| 10.25am      | Hypofractionated stereotactic irradiation for arteriovenous malformations  
Michael Dally |
| 10.35am      | Expression of thrombotic molecules after radiosurgery in an animal model of arteriovenous malformation  
Saleh Kashba |
| 10.45am – 11.15am | Morning Tea with the Industry |
### Day 2: Friday 3 October 2014 (cont)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.15am</td>
<td><strong>Session 6 – Developments and advancements in clinical neurosurgery</strong>&lt;br&gt;Convener: John Fuller</td>
<td></td>
</tr>
<tr>
<td>11.15am</td>
<td>Session Opening</td>
<td>John Fuller</td>
</tr>
<tr>
<td>11.20am</td>
<td><strong>Keynote Lecture</strong>&lt;br&gt;Extent of Resection and Survival in Glioblastoma: Can we do better than Gross Total Resection?&lt;br&gt;Raymond Sawaya</td>
<td></td>
</tr>
<tr>
<td>11.30am</td>
<td><strong>Keynote Lecture</strong>&lt;br&gt;New Imaging&lt;br&gt;Yoko Kato</td>
<td></td>
</tr>
<tr>
<td>11.40am</td>
<td>Bioactive Ti/PEEK interbody cage for ACDF: Early fusion results&lt;br&gt;Ralph Mobbs</td>
<td></td>
</tr>
<tr>
<td>11.50am</td>
<td>Parasitic and atypical infections of the central nervous system in non-immunocompromised patients&lt;br&gt;Robert Campbell</td>
<td></td>
</tr>
<tr>
<td>12.00pm</td>
<td>Meningiomas&lt;br&gt;Robert Smee</td>
<td></td>
</tr>
<tr>
<td>12.10pm</td>
<td>A practical outcome scale for paediatric neurosurgery patients: The paediatric modified Rankin Scale&lt;br&gt;Amal Abou-Hamden</td>
<td></td>
</tr>
<tr>
<td>12.20pm</td>
<td>Implant removal after percutaneous short segment fixation for thoracolumbar burst fracture: Does it preserve motion?&lt;br&gt;Hyeun Sung Kim</td>
<td></td>
</tr>
<tr>
<td>12.30pm</td>
<td>Syringomyelia&lt;br&gt;David Wallace</td>
<td></td>
</tr>
<tr>
<td>12.40pm</td>
<td>Clinical outcomes in the surgical treatment of idiopathic normal pressure hydrocephalus&lt;br&gt;Richard Shaw</td>
<td></td>
</tr>
<tr>
<td>12.50pm</td>
<td>Review of RCA (Root Cause Analysis) of critical events in neurosurgery: Will history repeat itself?&lt;br&gt;Vanessa Perotti</td>
<td></td>
</tr>
<tr>
<td>1.00pm</td>
<td>Lunch with the Industry</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>2.00pm</td>
<td><strong>Session 7 – Management of cervical spine surgery</strong>&lt;br&gt;Convener: Andrew Kam</td>
<td></td>
</tr>
<tr>
<td>2.00pm</td>
<td>Session Opening&lt;br&gt;Andrew Kam</td>
<td></td>
</tr>
<tr>
<td>2.05pm</td>
<td><strong>Keynote Lecture</strong>&lt;br&gt;Cervical spine surgery – Where are we now? Pros and cons&lt;br&gt;Thomas Lübbers</td>
<td></td>
</tr>
<tr>
<td>2.30pm</td>
<td><strong>Keynote Lecture</strong>&lt;br&gt;Management of primary tumours of the cervical spine: Intra-lesional vs en-bloc resection&lt;br&gt;Raja Rampersaud</td>
<td></td>
</tr>
<tr>
<td>2.55pm</td>
<td>Comparisons of current surgical practices – Single level anterior cervical discectomy versus cervical arthroplasty&lt;br&gt;Richard Kahler</td>
<td></td>
</tr>
<tr>
<td>3.05pm</td>
<td>The navigation guided spinal surgery in high cervical spine: The accuracy and safety of screw placement of C1 lateral mass and C2 pedicle screws&lt;br&gt;Jin-Sung Kim</td>
<td></td>
</tr>
<tr>
<td>3.15pm</td>
<td>Alternative technique for management of isolated atlas fractures&lt;br&gt;Katherine Poulgrain</td>
<td></td>
</tr>
<tr>
<td>3.25pm</td>
<td>A comparison of cervical foraminotomy versus anterior cervical discectomy and fusion for axial neck pain and arm pain in patients presenting with brachialgia&lt;br&gt;Anmar Al-Witri</td>
<td></td>
</tr>
<tr>
<td>3.35pm</td>
<td>Session Closing&lt;br&gt;Andrew Kam</td>
<td></td>
</tr>
<tr>
<td>3.45pm</td>
<td>Afternoon Tea with the Industry</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
</tbody>
</table>
| 4.15pm – 5.45pm | **Concurrent Session 8a – Advances in paediatric neurotrauma**  
Convener: Robert Campbell |
| 4.15pm       | Session Opening                                                                                 
Robert Campbell |
| 4.20pm       | **Keynote Lecture**                                                                             
Prosecution of non-accidental neurotrauma injuries in children  
Amanda Forrester |
| 4.55pm       | A review of paediatric head injuries managed at the Adelaide Women’s and Children’s Hospital     
Amal Abou-Hamden |
| 5.10pm       | Winter is coming: the great hypothermia debate                                                   |
| 5.30pm       | PINCH-15: Paediatric intracranial neoplasms at a Children’s Hospital over the last 15 years.     
An analysis of presentation, symptom type and symptom duration prior to diagnosis  
Kyle Sheldrick |
| 5.40pm       | Session Closing                                                                                 
Robert Campbell |
| 4.15pm – 5.45pm | **Concurrent Session 8b – Risk Management: Wrong level spinal surgery case study**            |
A case study will be presented and the session will examine the pitfalls including patient and surgeon expectations relating to treatment, effectiveness of spinal surgery and risk management.  
Proudly sponsored by UAvent |
| 5.45pm – 6.30pm | **Annual General Meeting of the Neurosurgical Society of Australasia**                             |
Open to Full and Senior Members only |
| 7.00pm – 10.30pm | **NSA Members Dinner**                                                                           |
Acqua Viva on the Swan, Jojo’s Jetty, Broadway (river end), Nedlands  
Open to NSA Members, NSA Provisional Members, non members, delegates and partners.  
*Tickets essential.* |
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 7.45am – 8.45am | **Breakfast Session**  
**Sports injuries in the cervical spine**  
Proudly sponsored by CODMAN NEURO |
| 9.00am – 10.45am | **Session 9 – Lumbar spine, what’s new, what’s controversial?**  
Convener: Bruce Hall  
Proudly sponsored by CODMAN NEURO |
| 9.00am        | Session Opening  
Bruce Hall |
| 9.05am        | **Keynote Lecture**  
Percutaneous endoscopic surgery in the hidden zone of the lumbar spine  
Thomas Lübbers |
| 9.30am        | **Keynote Lecture**  
MIS vs open surgery – A systematic review of comparative studies for lumbar TLIF/PLIF  
Raja Rampersaud |
| 9.55am        | Analysis of errors in navigation for thoracolumbar spine surgery - A single surgeon experience with intraoperative CT and robotic guidance  
Jonathon Ball |
| 10.05am       | Outcomes of lumbar fusions in Queensland Worker’s Compensation patients:  
A retrospective cohort study  
Bhavneet Singh |
| 10.15am       | Outcomes of ALIF based on indication: A prospective study  
Ralph Mobbs |
| 10.25am       | Standardising patient related outcomes measurement in low back pain: An international, cross-disciplinary effort  
Richard Kahler |
| 10.35am       | DISC (Degenerate- Disc Infection Study with Contaminant Control) discussion on methods, interim analysis and the pitfalls of not sending contaminant control  
Prashanth Rao |
| 10.45am – 11.15am | Morning Tea with the Industry |
**Day 3: Saturday 4 October 2014 (cont)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 10 – Management of unruptured intracranial aneurysms</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.15am – 1.00pm</td>
<td>Conveners: Edward Mee and Michael Morgan</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.15am</td>
<td>Edward Mee and Michael Morgan</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Keynote Lecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.20am</td>
<td>Surgical techniques in the management of unruptured intracranial aneurysms Yoko Kato</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Debate: Microsurgery should not be the first choice for unruptured intracranial aneurysms</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.50am</td>
<td>Moderator: Edward Mee</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Debate: Microsurgery should not be the first choice for unruptured intracranial aneurysms</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.55am</td>
<td>Affirmative: Rodney Allan</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Debate: Microsurgery should not be the first choice for unruptured intracranial aneurysms</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.10pm</td>
<td>Opposed: John Laidlaw</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Intraprocedural rupture during coil embolisation of ruptured cerebral aneurysms: a retrospective analysis of rate, risk factors and outcome in a high volume neuroscience referral centre</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.25pm</td>
<td>Moderator: Edward Mee</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>The impact of a multidisciplinary cerebrovascular meeting on the paradigms of cerebral aneurysm management</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.30pm</td>
<td>Brendan Davis</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Pediatric dural arteriovenous malformations: Report of 3 cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.50pm</td>
<td>Shaun Appaduray</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Lunch with the Industry</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00pm – 1.30pm</td>
<td></td>
</tr>
</tbody>
</table>

### Peter Leech Memorial Prize

The Peter Leech Memorial Prize is the most prestigious research award for neurosurgical trainees in Australasia offered by the NSA and is highly sought after. The value of the Prize will be up to $5,000 for economy airfares and expenses associated with attending an Australasian or international neurosurgical meeting. Entrants for the Prize must be registered in the RACS Surgical Education and Training Program in Neurosurgery.

### Flights

Flights to Perth fill quickly mid-week and we encourage you to book early to secure your seat.

If you require assistance with flight quotes and booking, please contact our Corporate Travel Managers. Details below:

Ms Kathleen Harris  
Corporate Blue  
T: +61 3 9211 2976  
E: kathleen@corporateblue.com.au
Accommodation Bookings

Crown Perth Convention Centre, Crown Metropol Perth and Crown Promenade Perth are located on the Great Eastern Highway, Burswood, Perth, only 15 minutes from the International and Domestic airports. Both Crown Metropol and Crown Promenade Perth hotels are a short walk (less than five minutes) to the Crown Perth Convention Centre.

Crown Metropol Perth

*Check-in: 3.00pm  Check-out: 11.00am

Luxe King / Twin Room
$315 inc GST including one buffet breakfast
$340 inc GST including two buffet breakfasts

Luxe King View Room
$345 inc GST including one buffet breakfast
$370 inc GST including two buffet breakfasts

Luxe King Spa
$390 inc GST including deluxe continental breakfast and pre-dinner drinks for up to two guests in "9" lounge.

Facilities:
ISIKI Spa
ISIKI Fitness
ISIKI Hair & Body Bar
Outdoor, indoor, relaxation and children’s pool
The Hub – indoor play venue
(suitable for children aged 16 and under)
The Office – dedicated business centre
Variety of nearby restaurants

Crown Promenade Perth

*Check-in: 3.00pm  Check-out: 11.00am

Standard Queen Room
$260 inc GST including one buffet breakfast
$280 including two buffet breakfasts

Standard Twin Room
$260 inc GST including one buffet breakfast
$280 including two buffet breakfasts

Luxe King View Room
$345 inc GST including one buffet breakfast
$370 inc GST including two buffet breakfasts

Luxe King Spa
$390 inc GST including deluxe continental breakfast and pre-dinner drinks for up to two guests in "9" lounge.

Facilities:
ISIKI Spa
ISIKI Fitness
ISIKI Hair & Body Bar
Outdoor, indoor, relaxation and children’s pool
The Hub – indoor play venue
(suitable for children aged 16 and under)
The Office – dedicated business centre
Variety of nearby restaurants

Reservations:
To make your accommodation booking, please contact the Hotel Reservations Department on:
Telephone:  +61 8 9362 8888 or +61 8 9362 7777 (choose option ‘3’ after selecting Hotel)
OR  1800 055 133

Quote Block Code:  NEU011014MP for Crown Metropol Perth
NEU011014PP for Crown Promenade Perth
Please ensure you quote PERTH specific property

Rate Code:  GNEUROBB for breakfast inclusive rates

Payment Method:
Guests to pay own account (please note, credit card details will be required when making reservations). At check-in, guests will be required to provide an imprint of their credit card.

Cancellations and No-Shows:
Please note, a charge equal to one night’s accommodation will apply to any rooms cancelled 48 hours prior to the arrival date or any non-arrival of booked rooms.

Group Block Release Date:
Any unused rooms will be automatically released back to the hotel on Monday 1 September 2014. Any new reservation requests after this date will be subject to hotel availability (the above rate will still apply as long as the block code: NEU011014MP / NEU011014PP is quoted at time of booking.

General Information:
At Crown Metropol Perth and Crown Promenade Perth, we pride ourselves in guiding our guests to have authentic local experiences within Crown Perth Complex and our city, which we are proud to call home. If you require any assistance in relation to transfers, tours or any other activity, we would be happy to impart our local knowledge ensuring you get the most out of your visit to Perth.

For further information about Crown Perth, including hotels, entertainment, restaurants and bars, day spa, hairdressing, recreation facilities and parking facilities please visit  www.crownperth.com.au

Accommodation Enquiries or Bookings Contact:
Ms Alia Ariff, Group Co-ordinator
Crown Metropol Perth | Crown Promenade Perth
T:  +61 8 9362 9000  E:  alia.tajulariff@crownperth.com.au

Book your accommodation early to avoid disappointment.
### Registration Details

#### Registration Information
- Registration fees are quoted in Australian dollars and include GST. Registration Fees include: delegate satchel, final program including abstracts, admission to all scientific sessions, morning and afternoon teas and lunches as scheduled. For early fee registrations your payment must be received prior to Sunday 27 July 2014.
- Refunds and Cancellations
  - A full refund will be provided for all cancellations received in writing prior to 27 July 2014.
  - A 50% refund will be provided for all cancellations received in writing after 27 July 2014 and before 27 August 2014. No refunds will be available from 27 August 2014.

#### NSA ASM Registration

**Early Fee (ends 27 July 2014)**
- Medical Students & PGY1: $225.00
- ANNA Member: $450.00
- PGY2 & SET Applicants: $450.00
- NSA Member (Provisional): $650.00
- NSA Member (All Others): $750.00
- Non Member: $950.00
- Day Registration: $350.00

**Standard Fee**
- Early Fee: $325.00
- Standard Fee: $550.00
- PGY2 & SET Applicants: $550.00
- NSA Member (Provisional): $750.00
- NSA Member (All Others): $850.00
- Non Member: $1,050.00
- Day Registration: $450.00

**Subtotal**
- Early Fee: $325.00
- Standard Fee: $550.00
- PGY2 & SET Applicants: $550.00
- NSA Member (Provisional): $750.00
- NSA Member (All Others): $850.00
- Non Member: $1,050.00
- Day Registration: $450.00

**NSA ASM Registration Subtotal**: $

#### NSA ASM Social Functions

**NSA ASM Welcome Dinner - Thursday 2 October 2014**
- NSA Members, Partners & Family: $35.00
- Non Members, Partners & Family: $55.00

**NSA ASM Members Dinner - Friday 3 October 2014**
- NSA Members & Partners: $65.00
- Non Members & Partners: $135.00

**NSA ASM Social Functions Subtotal**: $

**TOTAL OF FEES**

**NSA ASM Registration**: $

**NSA ASM Social Functions**: $

**Total Payable in AUD**: $

---

### Payment

**Payment Options:**
- Cheque – Made payable in Australian Dollars to Royal Australasian College of Surgeons.
- BPAY – Payment details will be provided via confirmation email.
- Credit Card – Please fill in details below.

**Credit Card Details:**
- **MasterCard**
- **Visa Card**
- **Amex**

**Card Number**: 

**Cardholder's Name**: 

**Cardholder's Signature**: 

**Expiry Date**: / / 

---

*Privacy policy details can be viewed on the RACS website at [http://www.surgeons.org/RACS/disclaimerprivacy.aspx](http://www.surgeons.org/RACS/disclaimerprivacy.aspx)*
Meeting Sponsors

Gold Sponsor

Silver Sponsors

Bronze Sponsors

Invited Speaker Sponsors

General Sponsors