

# 2008 Spine Society of Australia Annual Scientific Meeting

## Scientific Program

**Thursday 17 April 2008**

**1900** Executive Meeting – Balcony Room I

**Friday 18 April 2008**

**0900 – 1800** Registration

**1200 – 1300** **Welcome Luncheon** – Industry Exhibition Area

**1300 – 1315** Formal Opening

**Scientific Session 1** – Hilton Ballroom

*Management of Spinal Pain/Scoliosis*

**1315 – 1530**

**Chairperson** – Peter McCombe

**1315 – 1330** An Audit of Outcomes from Functional Restoration for Chronic Low Back Pain  
Paper # 1.1 **Nikolai Bogduk (d)**

**1330 – 1345** Reorganisation of the Motor Cortex in Chronic Low Back Pain  
Paper # 1.2 **Henry Tsao**

**1345 – 1400** Psychological Factors are Related to Some Sensory Pain Thresholds but not Nociceptive Flexion Reflex Threshold in Chronic Whiplash  
Paper #1.3 **Michele Sterling**

**1400 – 1415** Epidural Steroid Injection: Interlaminar or Transforaminal?  
Paper # 1.4 **Cynthia Chia (ab)**

**1415 – 1430** A Pilot Audit of Radiofrequency Biacuplasty for Back Pain due to Internal Disc Disruption  
Paper # 1.5 **Khaled Gowaily**

**1430 – 1445** Evaluation of Brain Morphometry in Girls with Adolescent Idiopathic Scoliosis (AIS): a Comparison with Age and Sex-Matched Controls  
Paper # 1.6 **Brian Freeman**

## Friday 18 April 2008

### Scientific Session 1 continued – Hilton Ballroom

#### *Management of Spinal Pain/Scoliosis*

**1315 – 1530**

**Chairperson – Peter McCombe**

- 1445 – 1500** The Affect of Soft Tissue Stiffness on Spinal Flexibility: A Finite Element Study of Scoliosis  
Paper # 1.7 **J Paige Little (a)**
- 1500 – 1515** Accuracy of Ortelius800 TM for Radiation-Free Assessment of Cobb Angle  
Paper # 1.8 **Orna Filo (e)**
- 1515 – 1530** Computed Tomography Evaluation of Axial Vertebral Derotation in Endoscopic Anterior Instrumentation for Scoliosis  
Paper # 1.9 **James Cordell-Smith (bd)**
- 1530 – 1600** **Afternoon Refreshments** – Industry Exhibition Area

### Moderated Poster Session – Hilton Ballroom

#### *Poster Presentation Session*

**1600 – 1720**

**Chairperson – Ralph Stanford**

- 1600 – 1605** Adipose-Derived Regenerative Cell Transplantation: Evaluating Intervertebral Disc Repair in a Canine Model  
Paper #2.1 **William Hutton (cdef)**
- 1605 – 1610** Trabecular Metal Blocks for ACDF: Porous Fusion or Poor Fusion?  
Paper #2.2 **Matthew Barnes (bc)**
- 1610 – 1615** Comparison of Radiological Methods in the Assessment of Lumbar Facetal Fusion – An Experimental Study Using a Sheep Pseudarthrosis Model  
Paper # 2.3 **Con Vasili (bcdf)**
- 1615 – 1620** Instrumented Fusion with Pedicle Screws and Interbody Autogenous Bone Graft in the Treatment of Spontaneous Osteomyelitis/Discitis  
Paper # 2.4 **Augusto Gonzalvo (c)**

## Friday 18 April 2008

### Moderated Poster Session continued – Hilton Ballroom

#### *Poster Presentation Session*

1600 – 1720

Chairperson – Ralph Stanford

- 1620 – 1625** Behaviour of the Non-Fused Lumbar Spine Below a Long Posterior Arthrodesis for Idiopathic Scoliosis; 2 to 11 Years After Surgery  
Paper # 2.5 **Pierre Pries (c)**
- 1625 – 1630** The Diagnostic Value of a Treadmill Test in Predicting Lumbar Spinal Stenosis  
Paper # 2.6 **Markus Melloh (c)**
- 1630 – 1635** Outcomes Following Lumbar Spinal Fusion Surgery: A Comparison of Preoperative and Postoperative Function  
Paper # 2.7 **Wayne Ng (cd)**
- 1635 – 1640** Fatty Infiltration in the Cervical Extensor Muscles in Women with Chronic Whiplash Associated Disorders (WAD)  
Paper # 2.8 **James Elliott (c)**
- 1640 – 1645** Healthy Individuals Adapt Differently to Pain than People in Remission from Recurrent Back Pain  
Paper # 2.9 **Paul Hodges (ac)**
- 1645 – 1650** A Prospective Study of Spinal Cord Injury in Children and Adolescents  
Paper # 2.10 **Rajeshwarnath Srivastava (c)**
- 1650 – 1655** Role of the Blood Spinal-Cord Barrier in Post-Traumatic Syringomyelia  
Paper # 2.11 **Sarah Hemley (abcd)**
- 1655 – 1700** Efficient School Screening for Idiopathic Scoliosis Applying Spinescan  
Paper # 2.12 **Orna Filo (ce)**
- 1700 – 1705** Learning Curve of Internal Fixation with Pedicle Screws: How Many Screws are Enough to be Confident with the Technique?  
Paper # 2.13 **Augusto Gonzalvo (c)**
- 1705 – 1710** An Anterior Cervical Retractor Utilizing a Novel Principle  
Paper # 2.14 **Kevin Seex (acd)**

## Friday 18 April 2008

### Moderated Poster Session continued – Hilton Ballroom

*Poster Presentation Session*

**1600 – 1720**

**Chairperson – Ralph Stanford**

**1710 – 1715**

Comparison of Intra-Operative Retraction Pressure Between a Novel Retractor System and Conventional Retractor System – A Cadaveric Study

Paper # 2.15

**Ananthababu Pattavilakom (c)**

**1715 – 1720**

Limiting Disc Arthroplasty Subsidence by Moving the Centroid of the End Plate Closer to the Axis of Rotation

Paper # 2.16

**Peter McCombe (cdef)**

**1730 – 1930**

**Welcome Cocktail Reception – Industry Exhibition Area**

## Saturday 19 April 2008

**0715 – 0830**

**Walk-through Continental Breakfast – Industry Exhibition Area**

### Scientific Session 3 – Hilton Ballroom

*Lumbar discs: Science and Surgery*

**0830 – 1030**

**Chairperson – William Sears**

**0830 – 0845**

Microstructural Analysis of the Translamellar Bridging Network of the Disc Annulus

Paper # 3.1

**Meredith Schollum (adf)**

**0845 – 0900**

The Microanatomy of Annular Failure in Mechanically Disrupted Lumbar Intervertebral Discs

Paper # 3.2

**Samuel Veres (aef)**

**0900 – 0915**

The Australian Merino Displays Dysplastic Epiphyseal Growth Plate Morphology and an Age-Dependant Chondroid Transformation of the Nucleus Pulposus- Evidence of a Chondrodystrophic Phenotype

Paper # 3.3

**James Melrose (ad)**

## Saturday 19 April 2008

### Scientific Session 3 continued – Hilton Ballroom

*Lumbar discs: Science and Surgery*

**0830 – 1030**

**Chairperson – William Sears**

- 0915 – 0930** The Natural History Age-Related Disc Degeneration: The Influence of Age and Pathology On Cell Populations in the L4-5 Disc  
Paper # 3.4 **Barrie Vernon-Roberts (ad)**
- 0930 – 0945** The Effect of Intervertebral Disc Degeneration on Vertebral Cortical Strains and Disc Mechanical Properties  
Paper # 3.5 **John Costi (a)**
- 0945 – 1000** A Theoretical Kinematic Analysis of Sliding Core Disc Arthroplasty Devices  
Paper # 3.6 **Peter McCombe (adef)**
- 1000 – 1015** Lumbar Total Disc Replacement and Non-Operative Care: A Longitudinal Comparison of Two Cohorts with a Minimum Follow-Up of Two-Years.  
Paper # 3.7 **Tamer Sabet (df)**
- 1015 – 1030** Results of the Prospective, Randomized, Multi-Center, Food and Drug Administration (FDA) Investigational Device Exemption (IDE) Study of the Prodisc®-L Total Disc Replacement Versus Circumferential Fusion for the Treatment of 2-Level Degenerative Disc Disease  
Paper # 3.8 **Jack Zigler (ef)**
- 1030 – 1100** **Morning Refreshments** – Industry Exhibition Area

### President's Session – Hilton Ballroom

**1100 – 1230**

**Chairperson – Roy Carey**

- 1100 – 1125** Landfall in Surgery for Low Back Pain  
**Professor Dieter Grob (Switzerland)**
- 1125 – 1150** The History of Spinal Surgery in My 35 Years of Practice: How Things Have Changed  
**John Lonstein**
- 1150 – 1215** Alan Dwyer Medal Lecture - Anterior Connections  
**Rob Fraser**

## Saturday 19 April 2008

### President's Session – Hilton Ballroom

1100 – 1230

Chairperson – Roy Carey

- 1215 – 1230 Presentation of Memberships  
**John O'Brien and Harry Crock**
- 1230 – 1330 **Working Luncheon** – Industry Exhibition Area

## Saturday 19 April 2008

### Symposium – Hilton Ballroom

*Complications of BMPs*

1330 – 1515

Chairperson – Owen Williamson

- 1330 – 1345 A Naturally Occurring Ovine Model for Hydroxyapatite Deposition Disorder in the Intervertebral Disc  
Paper # 5.1 **Christopher Little (ad)**
- 1345 – 1400 Recombinant Human BMP-2 Enhances Local Bone Formation in the Lumbar Spine of Osteoporotic Sheep  
Paper # 5.2 **Reza Zarrinkalam (d)**
- 1400 – 1410 Severe Vertebral Body Osteolysis Following Posterior Lumbar Interbody Fusion with RHBMP-2; a Case Report  
Paper # 5.3 **John Liddell (d)**
- 1410 – 1420 Complications of the Use of BMP-7 and CMC/TCP Putty in Anterior Cervical Surgery.  
Paper # 5.4 **Graeme Brazenor**
- 1420 – 1435 Early Complications Associated with BMP in Lumbar Interbody Fusions  
Paper # 5.5 **Paul Licina (def)**
- 1435 – 1445 Presentation of Spine Society Survey on BMP Complications Interbody Fusion  
Paper # 5.6 **Owen Williamson**
- 1445 – 1500 Mechanism of Action of BMP  
Paper # 5.7 **Ralph Stanford**

## Saturday 19 April 2008

### **Symposium – Hilton Ballroom**

#### *Complications of BMPs*

**1330 – 1515**

**Chairperson – Owen Williamson**

**1500– 1515**

Paper # 5.8

Prevention and Management Complications of BMP

**Matthew Scott-Young**

**1515 – 1545**

**Afternoon Refreshments – Industry Exhibition Area**

### **Scientific Session 6 – Hilton Ballroom**

#### *Spinal Fusion: Science and Surgery*

**1530 – 1745**

**Chairpersons – Orso Osti**

**1545 – 1600**

Paper # 6.1

Initiation of Bone Healing by a Platelet Activating Biomaterial

**Ben Goss (bf)**

**1600 – 1615**

Paper # 6.2

A Multilayered Composite Granule for Controlled Release of Growth Factors for Osteogenesis.

**Con Vaslili (b)**

**1615 – 1630**

Paper # 6.3

A Histopathological Study of the Ligamentum Flavum/Facet Joint Complex in Patients with Lumbar Canal Stenosis; New Insights into the Anatomy and Pathology of Juxtafacet Cysts.

**Barrie Vernon-Roberts (bd)**

**1630 – 1645**

Paper # 6.4

Mechanical and Pathologic Consequences of Surgically Induced Lumbar Spondylolysis: An Ovine Model Using Radiostereometric Analysis

**David W. Ardern**

**1645 – 1700**

Paper # 6.5

Effect on Intervertebral Motion of a Novel Minimally Invasive Interspinous Implant

**Robert Gunzburg (e)**

## Saturday 19 April 2008

### Scientific Session 6 continued – Hilton Ballroom

*Spinal Fusion: Science and Surgery*

**1530 – 1745**

**Chairpersons – Orso Osti**

**1700 – 1715** Outcomes of Minimally-Invasive and Open Posterior Lumbar Interbody Fusion for Spondylolisthesis

Paper # 6.6 **Ali Ghahreman (be)**

**1715 – 1730** A Comparison of Two Surgical Fusion Techniques for Degenerative Disorders of the Lumbar Spine: A Prospective Cohort Study

Paper # 6.7 **Professor Dieter Grob (Switzerland)**

**1730 – 1830** **Business Meeting 1**

**1845 – 2300** **Conference Dinner – National Wine Centre**

*Please gather in the Hotel Lobby at 1845 for coach transfers*

## Sunday 20 April 2008

**0730 – 0900** **Walk-through Continental Breakfast – Industry Exhibition Area**

**0800 – 0900** **Business Meeting 2**

### Scientific Session 7 – Hilton Ballroom

*Spinal Surgery: Registries and Outcomes*

**0900 – 1030**

**Chairperson – Graeme Brazenor**

**0900 – 0915** Comparison of a Six Month Non-Aggravating Gym Rehabilitation Program Verses Usual Surgical Advice Post Lumbar Discectomy. A Prospective Randomised Control Trial with 3 Year Follow Up

Paper # 7.1 **Barry Donaldson**

**0915 – 0930** Challenges in Establishing the International Spine Registry Spine Tango

Paper # 7.2 **Markus Melloh**

## Sunday 20 April 2008

### Scientific Session 7 continued – Hilton Ballroom

#### *Spinal Surgery: Registries and Outcomes*

**0900 – 1030**

**Chairperson – Graeme Brazenor**

- 0930 – 0945** Comparison of Health-Related Quality of Life Following Fusion for Lumbar Degenerative Spondylolisthesis with Hip and Knee Joint Replacement Surgery and with Population Norms.  
Paper # 7.3 **William Sears (def)**
- 0945 – 1000** Benchmarking in Spinal Surgery: An Analysis from the International Spine Registry Spine Tango  
Paper # 7.4 **Markus Melloh**
- 1000 – 1015** The Prevalence and Bothersomeness of Complications after Spinal Surgery: The View From the Patient's Side  
Paper # 7.5 **Professor Dieter Grob (Switzerland)**
- 1015 – 1030** Cost Effectiveness of Two Forms of Circumferential Lumbar Fusion: A Prospective Randomised Controlled Trial  
Paper # 7.6 **Brian Freeman (b)**
- 1030 – 1100** **Morning Refreshments – Industry Exhibition Area**

### Scientific Session 8 – Hilton Ballroom

#### *Spinal Cord Injury/Scoliosis 2*

**1100 – 1215**

**Chairperson – Mark Pearcy**

- 1100 – 1115** Reduction of Secondary Degeneration after Spinal Cord Injury by Acute Delivery of Angiogenic Growth Factors  
Paper # 8.1 **Ben Goss (abdf)**
- 1115 – 1130** Motor Segmental Recovery in Traumatic Paraplegia: A Blessing in Disguise  
Paper # 8.2 **Rajeshwarnath Srivastava**
- 1130 – 1145** The Biomechanical Effects of Thoracic Spine Stapling  
Paper # 8.3 **Mark Shillington (bd)**

# Sunday 20 April 2008

## Scientific Session 8 continued - Hilton Ballroom

### *Spinal Cord Injury/Scoliosis 2*

1100 - 1215

**Chairperson - Mark Pearcy**

**1145 - 1200**

Paper # 8.4

Metal Ion Release in Paediatric Scoliosis Instrumentation

**Tom Cundy (d)**

**1200 - 1215**

Paper # 8.5

Effect of Bone Graft Type on Fusion Rates Following Endoscopic Anterior Scoliosis Correction

**James Cordell-Smith (bd)**

**1215**

Presentation of Awards

**Close of Program**

#### NOTE:

- a Spinal research award
- b Rob Johnson award
- c Best poster award
- d Best paper by a member award
- e One or more of the authors has received something of value from a commercial company or institution that relates directly or indirectly to the subject of the presentation
- f Research grant