



Spine Society of Australia

*The Organising Committee welcomes you to the
2005 Annual Scientific Meeting of the Spine
Society of Australia*

15 - 17 April 2005

Auckland Hilton

Auckland, NEW ZEALAND

International Guest Speaker

Dr John Heller

**Emory Orthopaedic And Spine Centre
Atlanta, Georgia
USA**



*Dr Ian Farey
Dr Peter Robertson
Associate Professor Bruce McPhee*

*President
Convenor
Editorial Secretary*

**The 2005 Spine Society Conference has been approved for CPD points by the
Australian Orthopaedic Association for 16 Hours under Category A.**

**The 2005 Spine Society Conference has been approved as part of the RACS CPD program.
Fellows who attend can claim 14 points in Category 4 *Maintenance of Knowledge and Skills*.**



The Spine Society of Australia gratefully acknowledges the generous sponsorship and support of the industry

Proud Sponsors

Satchels



Name Tags



Conference Handbook



Audio Visual Presentations



Conference Dinner



Medtronic
SOFAMOR DANEK

Exhibitor List

Booth#	Exhibitor
1 - 6	Synthes
7	Global Orthopaedic
8	Med-Chem Surgical
9 - 10	Zimmer
11 - 12	Orthotech
13 - 16	Medtronic Sofamor Danek
17 - 20	DePuy Spine
21	B.Braun Australia
22	Shine Medical
23	Brain LAB Australia & New Zealand
24	Surgico Medical & Surgical
25	Global Scientific
26	Taylor Bryant
27 - 30	Stryker

Please refer to floor plan opposite

Awards

Spinal Research Award



Best Presentation Award



Best Poster Award



Rob Johnston Award



SPINE SOCIETY OF AUSTRALIA

2005 SCIENTIFIC MEETING PROGRAM

Thursday 14 April

1500 – 1800 Registration – First Floor

Friday 15 April

0800 – 1800 Registration – First Floor

0900 – 1200 Executive Meeting – **Topaz 1**

1200 – 1300 Welcome Luncheon
Trade Exhibition Area – Ground Floor

Scientific Session 1 – Aquamarine Room 1 – 3 – 1300 – 1530

***“Low Back Pain - Non-Operative, Neck Pain, and
MRI and the Intervertebral Disc”***

Chairpersons: Peter McCombe & Bruce Hodgson

AS A COURTESY PLEASE REFRAIN FROM HAVING MOBILE PHONES SWITCHED ON DURING SESSIONS

1300 – 1315 Sacroiliac Joint Pain – A New Functional Diagnostic Block
Bijoy Thomas

1315 – 1330 Efficacy of Home Gravity Traction for Lumbar Disc Protrusion
Conrad Winer

1330 – 1345 Foraminal Steroid Injection
Simon Hadlow

1345 – 1400 Was The Injury Caused By The Accident?
Michael Ryan

1400 – 1415 Ethnic Variation in Cervical Spine Diameter
Geoff Coldham

1415 – 1430 Headache and the Cervical Zygapophysial Joints
[Cervicogenic/Cervical Headache]
Jayantilal Govind

Friday 15 April (Cont...)

- 1430 – 1445** Radiological Follow Up of Patients after Anterior Cervical Fusion with Conventional and Polyaxial Locking Plates
Paul Licina
- 1445 – 1500** In Vivo Characterisation Of Intervertebral Disc Deformation In Response To Lumbar Torsion. An MRI Investigation
Peter Fazey
- 1500 – 1515** Pre-Mortem and Post-Mortem Magnetic Resonance Imaging Of Sheep Spines
John Burke
- 1515 – 1530** An Investigational Study of Porcine Small Intestine Submucosa (PSIS) For Anterior Longitudinal Ligament Replacement And Anti-Adhesion Following Total Disc Arthroplasty. An *In-Vivo* Non-Human Primate Model.
Bryan Cunningham
- 1530 – 1600** **Afternoon Tea**
Trade Exhibition Area – Ground Floor

<p>Scientific Session 2 – Aquamarine Room 1 – 3 – 1600 – 1730 "Biomechanical Research and Complications" Chairpersons: Gordon Howie & Richard Vaughan</p>
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- 1600 – 1615** Validation of a Method and Tool for Measuring In-Vitro Spine Segment Stiffness, Cortical Strain and Pressure Distribution in a Hydrated, Uniform Loading Environment
Honorata Tettis
- 1615 – 1630** In-Vitro Measurement of Spine Segment Stiffness, Cortical Strain and Pressure Distribution in a Hydrated, Uniform Loading Environment: A Pilot Study
John Costi
- 1630 – 1645** Biomechanics of the Lumbar Spine Analysed Using A Combination of A Finite Element Model And A Mathematical Muscle Model
Hans De Visser
- 1645 – 1700** Charcot's Arthropathy of the Spine: A Late Complication of Spinal Instrumentation
Paul Licina
- 1700 – 1715** Venous Thromboembolism and Spinal Surgery
Tom Pitham
- 1715 – 1730** Management of Spinal Wound Infections
International Guest Speaker: Dr John Heller

Friday 15 April (Cont...)

Evening Social Function

1745 – 1930

Welcome Cocktail Reception
Trade Exhibition Area – Ground Floor

Saturday 16 April

Commencement Saturday

0700 – 1800

Registration – First Floor

0700 – 0755

Walk through Continental Breakfast with the Industry
Trade Exhibition Area – Ground Floor

Scientific Session 3 – Aquamarine Room 1 – 3 – 0800 – 0945

"Cervical Spine Injuries and Spinal Deformity"

Chairpersons: John Yeo & Ian Torode

AS A COURTESY PLEASE REFRAIN FROM HAVING MOBILE PHONES SWITCHED ON DURING SESSIONS

0800 – 0815

Official Opening
Dr Ian Farey - President

0815 – 0830

Treatment of Traumatic Cervical Spine Instability with Interbody Fusion Cages. A Prospective Controlled Study
Lennel Lutchman

0830 – 0845

Transplantation of Autologous Olfactory Ensheathing Cells in Spinal Cord Injury: Surgery and Twelve Month Safety Data of a Phase One Human Clinical Trial
Adrian Nowitzke

0845 – 0900

The Influence Of The Timing Of Surgical Intervention On Neurological Outcome In Cervical Spine Injuries
Lennel Lutchman

0900 – 0915

Scoliosis Surgery in Patients with Myelodysplasia: An Outcome Study
Haemish Crawford

0915 – 0930

The Value of Spinal Cord Monitoring In Scoliosis Surgery – Six Years Experience At The Royal Children's Hospital
Susan Liew

0930 – 0945

Gastrointestinal Morbidity following Spinal Surgery in Children
Haemish Crawford

Saturday 16 April (Cont...)

Scientific Session 4 – Aquamarine Room 1 – 3 – 0945 – 1030

“Poster Session”

Chair: John Yeo & Ian Torode

- 0945 – 0950** Serum and Urinary Levels of Component Metal Ions in Patients with Spinal Implants
Bruce McPhee
- 0950 – 0955** Nitric Oxide around the Facet Joints in Patients with Chronic Low Back Pain
Ashish Diwan
- 0955 – 1000** Idiopathic Scoliosis and Pineal Lesions in a Pediatric Australian Population
Greg Day
- 1000 – 1005** Proliferation of Macrophages in an Animal Model of Post-Traumatic Syringomyelia
Amy Watling
- 1005 – 1010** Suprasellar and Hypothalamic Region Lesions and Pituitary Disorders in Juveniles/Adolescents and Their Influence on the Development of Idiopathic Scoliosis: Literature Review of Hormonal Influences on Growth Plate Chondrocytes
Greg Day
- 1010 – 1015** Fracture Patterns at the Cervicothoracic Junctional Region: An Australian Perspective
Kevin Singer
- 1015 – 1020** The Value Of Orthogonal Plain Radiographs In Determining The Position Of Thoracic Pedicle Screws
Arvind Kulkarni
- 1020 – 1025** The Positional Mri Changes in the Lumbar Spine Following Insertion of a Novel Interspinous Process Distraction Device
Efthimios Karadimas
- 1025 – 1030** Segmental Fixation of C1-C2 with Direct Lateral Mass Plate and Screw Fixation
Arvind Kulkarni
- 1030 – 1100** Morning Refreshments
Trade Exhibition Area – Ground Floor

Saturday 16 April (Cont...)

Scientific Session 5 – Aquamarine Room 1 – 3 – 1100 – 1230
"President's Session - Instructional Course Lectures"
Chairpersons: Ian Farey

- 1100 – 1125** Management of Anterior Lumbar Approach Complications
Salvator Brau
- 1125 – 1150** Basic Scientific Considerations in Total Disc Arthroplasty
Bryan Cunningham
- 1150 – 1220** Treatment Options in Cervical Spondylotic Myelopathy
International Guest Speaker: Dr John Heller
- 1220 – 1230** **Award for Outstanding achievements in Spinal Surgery**
- 1230 – 1330** Working Luncheon
Trade Exhibition Area – Ground Floor

Scientific Session 6 – Aquamarine Room 1 – 3 – 1330 – 1500
"Lumbar Disc Arthroplasty Symposium"
Chairpersons: Michael Fearnside & Bruce McPhee

- 1330 – 1340** Comparison of SB Charité Disc Arthroplasty to Maverick Disc Arthroplasty in the Lumbar Spine
Peter McCombe
- 1340 – 1350** Maverick Disc Arthroplasty
Hal Mathews
- 1350 – 1400** Multidirectional Flexibility Properties of Single Versus Multi-Level Charité Total Disc Arthroplasty – An Emphasis On Revision Strategies
Bryan Cunningham
- 1400 – 1410** Two Level Lumbar Disc Replacement: Retrospective Study of 79 Patients with Minimum Follow-Up Period of 1 Year
Matthew Scott-Young
- 1410 – 1420** Spinal Fusion and the Risk of Symptomatic Adjacent Level Disc Degeneration - A Systematic Review
Owen D Williamson
- 1420 – 1430** The Effect of A Total Disc Replacement On Sagittal Balance
Hal Mathews
- 1430 – 1440** Lumbar Arthroplasty Approaches - Tricks and Prevention of Complications
Salvator Brau
- 1440 – 1500** **Discussion**
- 1500 – 1530** Afternoon Refreshments
Trade Exhibition Area – Ground Floor

Saturday 16 April (Cont...)

Scientific Session 7 – Aquamarine Room 1 – 3 – 1530 – 1700
"Lumbar Spine Surgery for Low Back Pain and
Spinal Research Award Submissions"
Chairpersons: Kevin Singer & Peter Robertson

- 1530 – 1545** Dynesys Stabilization System Allows Motion at the Instrumented Levels: Preliminary Report on Positional MRI Findings of 25 Cases
Efthimios Karadimas
- 1545 – 1600** Non-Fusion Stabilisation
Roy Carey
- 1600 – 1615** Comparison of Conservative Advice Versus a Progressive Non-Aggravating Six Month Gym Rehabilitation Programme Post Lumbar Discectomy, Preliminary One Year Follow Up Results
Barry Donaldson
- 1615 – 1630** Penetration of Cephazolin in Human Intervertebral Disc
Rebecca Walters
- 1630 – 1645** Intra-Lamellar Relationships in the Collagenous Architecture of the Annulus Fibrosis: A 'Live' Tissue Study
Celina Pezowicz
- 1645 – 1700** Failure Strength of the Bovine Caudal Disc Under Internal Hydrostatic Pressure
Neil Broom

Business Meeting – Aquamarine Room 1 – 3

- 1700 – 1800** **1st Business Meeting**

Evening Social Function

- 1900 – 2300** Spine Society of Australia Conference Dinner
Pontoon Restaurant
(All Delegates, Industry & Invited Guests welcome)

Proud Sponsors



Please gather in the Hotel Lobby for coach transfers

Sunday 17 April

Commencement Sunday

- 0700 – 1230 Registration – First Floor
- 0745 – 0855 Walk Through Continental Breakfast with the Industry
Trade Exhibition Area – Ground Floor

Business Meeting – Aquamarine Room 1 – 3

- 0800 – 0900 2nd Business Meeting

Scientific Session 8 – Aquamarine Room 1 – 3 – 0900 – 1030
"Spinal Research Award Submissions and Osteoporosis"
Chairpersons: Rob Moore & Bryan Ashman

AS A COURTESY PLEASE REFRAIN FROM HAVING MOBILE PHONES SWITCHED ON DURING SESSIONS

- 0900 – 0915 Differential Expression of Bone Matrix Proteins in Endogenous Uroepithelial Bone Induction in a Canine Model
Ben Goss
- 0915 – 0930 Gravity-Induced Torsion and Intravertebral Rotation in Idiopathic Scoliosis
Clayton Adam
- 0930 – 0945 Survival and Differentiation of Syngeneic Bone Marrow-Derived Mononuclear Cells in Rat Intervertebral Discs
Ashish Diwan
- 0945 – 1000 Further Characterisation and Application of an Ovine Steroid-Induced Osteopaenia Model
Helen Beard
- 1000 – 1015 PMMA Causes Prolonged Pulmonary Hypertension during Vertebroplasty in Sheep
Ben Goss
- 1015 – 1030 Vertebroplasty and Kyphoplasty
International Guest Speaker: Dr John Heller
- 1030 – 1100 Morning Refreshments
Trade Exhibition Area – Ground Floor

Sunday 17 April (Cont...)

Scientific Session 9 – Aquamarine Room 1 – 3 – 1100 – 1230
"Cervical Disc Arthroplasty Symposium"
Chairpersons: Nigel Jones & Gary Speck

- 1100 – 1110** Bryan Cervical Disc Prosthesis Implantation Decreases Pain and Improves Functioning in Patients with Spondylotic Radiculopathy
Leong Tan
- 1110 – 1120** Porous Coated Motion (PCM™) Total Cervical Disc Replacement 27 Months Follow-Up, Clinical and Radiological Results
Luiz Pimenta
- 1120 – 1130** Porous Coated Motion Cervical Disk Replacement - A Biomechanical, Histomorphometric and Biologic Wear Analysis in A Caprine Model
Bryan Cunningham
- 1130 – 1140** A Multicenter, Prospective, Randomized, Study Of The Prestige Artificial Cervical Disc Versus Fusion For Primary Cervical Disc Surgery
Peter McCombe
- 1140 – 1150** Cervical Disc Replacement: The Reliability of Radiological Measures
Owen Williamson
- 1150 – 1200** Post-Operative Kyphosis with the Bryan Cervical Disc Prosthesis – Contributing Factors and the Influence of Change in Disc Space Height
William Sears
- 1200 – 1230** **Discussion**
- 1230** **Presentation of Awards**

Spinal Research Award & Best Presentation Award



Best Poster Award



Rob Johnston Award



Conference Closure

Poster Board Presentations – Exhibition Area Ground Floor

Poster Panel	TITLE AND AUTHOR	Poster Number
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2	Nitric Oxide around the Facet Joints in Patients with Chronic Low Back Pain Ashish Diwan	46
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4	Proliferation of Macrophages In An Animal Model Of Post-Traumatic Syringomyelia Amy Watling	47
5	Suprasellar and Hypothalamic Region Lesions and Pituitary Disorders in Juveniles/Adolescents and Their Influence on the Development of Idiopathic Scoliosis: Literature Review of Hormonal Influences on Growth Plate Chondrocytes Greg Day	20
6	Fracture Patterns at the Cervicothoracic Junctional Region: An Australian Perspective Kevin Singer	22
7	The Value Of Orthogonal Plain Radiographs In Determining The Position Of Thoracic Pedicle Screws Arvind Kulkarni	12
8	The Positional Mri Changes in the Lumbar Spine Following Insertion of a Novel Interspinous Process Distraction Device Manal Siddiqui	04
9	Extradural Arachnoid Cysts: A Study of Seven Cases Arvind Kulkarni	11