

WCMISST Final Program

Pre Congress Day : May 31st (Monday)

Exhibitor Set-up

Early Registration

Faculty and Moderator Registration Conference guidelines instructions to be issued)

Pre Congress Cadaver Workshop in Hotel : PELD, PECD, Disc FX

Sponsor: Richard Wolf and Elliquence

Hands on limited to 30 (suggest pre-registration on internet)

Faculty: Anthony Yeung (SED, Endoscopic Dorsal Rhizotomy) ,

Wooridul faculty (PELD, PECD) Gun Choi, June Ho Lee, Won Chul Choi, and others TBA

Pre-registration for Hands on \$500.00 USD

Audit: (unlimited) Lectures , Cadaver demonstration via video feed adjacent room \$50.00 USD (May register on site)

6:00 PM Faculty and Moderator Meeting for Program instructions (TBA)

Day 1 : June 1st (Tuesday)

7:00 - 8:00 Registration

7:00 - 8:00 Continental Breakfast

8:00 - 8:20 Opening remarks

Anthony T. Yeung (5min)

Gun Choi (5 min)

Daniel Gastambide (5 min)

Sang-Ho Lee (5min)

8:20 - 9:55 Presidential Speaker Session 1

Moderators Anthony Yeung / Choll Kim

- 1) Review of Spine Surgery and the Evolving Role of MIS - Hansen Yuan (30min)
- 2) The Recent Development of MIS in Wooidul Hospital - Sang-Ho Lee (15min)
- 3) The Current Medical Status in Beijing: 306 and Yanda Project - Dei Wei Zou (10min)
- 4) How the Brazilian Spine Society is working for the Sustained Development of MIS Spine Surgery - Pil Sun Choi (15min)
- 5) Preparing for the MIS Tipping Point: The SMISS Education Program and Prospective Registry - Choll Kim (15min)

Questions (10min)

9:55 - 10:25 State of the Art of MIS in North, Central and South America

- 1) James Schwender - President SMISS (5min)
- 2) Roberto Cantu - President Mexico (5min)
- 3) Jorge Ramirez / Jose Rugeles - President Columbia (5min)
- 4) Nicolas Prada – Clemi Development of a minimally invasive surgery center (5min)

Questions (10min)

10:25 - 10:55 Coffee Break

10:55 - 12:00 Presidential Speaker Session 2

Moderator: Sang Ho Lee/Anthony Yeung

- 1) The Evolution of Degenerative Spinal Disorders - Wolfgang Rauschning (20 min)
- 2) Patho-physiology of Disc Degeneration: A State of the Art - Alex Hadjipavlou (20min)
- 3) The Role of Biologics in the MIS Treatment of Spinal Conditions - Stephen Hochschuler (20min)

Questions (5min)

12:00 - 13:00 Lunch Seminar: Walter Eisner and Mark DuVal

What we can expect from the FDA over the next year?

The effect on Innovative Minimally Invasive Surgery

13:00 - 13:50 Scientific Session 1 : Imaging for MIS and Pain

Moderator : Daniel Farkas

- 1) Big Hit for Miss: Better Image Guidance via Heightened Imaging Technology - Daniel Farkas (10min)
- 2) A Video Telescope Operating Monitor (VTOM) System for Spine Surgery: Early results - Siddique Khawar (10min)
- 3) Imaging Informatics beyond Radiology: A Multi-Media Electronic Patient Record System for Image Assisted Minimally Invasive Spinal Surgery - Brent J Liu (10min)
- 4) Imaging Chemical Signatures of Back Pain - David Bradford (10min)
- 5) **Dynamic weight bearing / positional imaging research and applications-** Sana Khan

13:50 - 14:50 Discogenic Pain Moderator Chris Yeung/ Tom Hoogland

Lumbar Pain Generators: The Pathologist's Perspective - Wolfgang Rauschnig (15min)

Free Paper Session 1 : Discogenic Pain

- 1) Intradiscal Therapy for Discogenic Pain - Anthony Yeung (6min)
- 2) A New Combination: Radiofrequency, Annulus Decompression and Mechanical Nuclectomy: 2 years results - Stephan Hellinger (6min)
- 3) Radiofrequency Ablation of a Novel Target for Treatment of Chronic LBP - Christopher Yeung (6min)
- 4) Thermal Effect of Radiofrequency on Intervertebral Disc - Jaime Andres Barrett Perea (6min)
- 5) Endoscopic Transforaminal Discoplasty in Degenerative and Resistant Low Back Pain - Thomas Hoogland (6min)

6) Our Experience with Nucleoplasty: Results and indications - Stephanos Picas (6min)

Questions (9min)

14:50 - 15:15 Free Paper Session 2 : Non-Discogenic Axial Back Pain

Moderators Choll Kim / Steve Hochschuler

1) Interventional Techniques for Low-Back Pain - Elvan Erhan (6min)

2) Repeat Radiofrequency Facet Joint Denervation for Chronic Low Back Pain - Eugene Wong (6min)

3) Dorsal Endoscopic Rhizotomy for Non Discogenic Axial Back Pain - Yinggang Zheng (6min)

Questions (7min)

15:25 - 15:55 Coffee Break

15:55 - 17:30 Free Paper Session 3 : PELD

Moderators Gun Choi/ Eduardo Barreto

1) Contralateral Approach for Lumbar Disc Herniation - Special Technique for Specific Condition - Jae Joon Lee (10min)

2) How Minimal must We be? - Stephanos Pichas (6min)

3) Full Endoscopic Interlaminar and Extraforaminal Operation - Patrick Hahn (6min)

4) Endoscopic Transforaminal Discectomy (ETD) - Thomas Hoogland (6min)

5) High Migrated Disc Herniation - Gun Choi (6min)

6) Endoscopic Transforaminal Discectomy for Recurrent Lumbar Disc Herniation - Thomas Hoogland (6min)

7) Endoscopic Assisted Nucleotomy - Frank Haberstroh (6min)

8) Hydrodiscectomy: a Novel Decompressive Percutaneous Approach for Nerve Root Decompression due to DDD - Eduardo Barreto (6min)

9) Juxtafacet Cysts: Case Report and Literature Review - Satish Gore (6min)

10) PELD and Piriformis Syndrome - Kyung - Hoon Kim (6min)

11) High Grade Down Migrated L4-L5 Gernia; PE Interlaminar Approach Through L5S1 - Nicholas Prada (6min)

12) Improvement through Analysis of Unsuccessful Percutaneous Endoscopy Cases - Fujio Ito (Japan) (6min)

13) Analysis of Residual Symptoms in 11 Endoscopically treated Disc Hernations not Classified as Poor Results - Satish Gore(India) (6min)

Questions (10min)

17:30 Adjorn

Opening Reception TBA

Day 2 : June 2nd (Wednesday) Anthony Yeung

7:00 - 8:00 Breakfast Seminar : Sponsored by Elliquence

1) Evolution of Selective Endoscopic Discectomy for Discogenic Pain Using a Flexible 4MHZ Bipolar Radiofrequency - Anthony Yeung

2) Development of a 3-in-1 Percutaneous Fluoroscopic Guided Technique for Discogenic Pain - Stephan Hellinger

3) Two years Results of Disc FX - Stephan Hellinger

8:00 - 8:30 State of the Art of MIS in Asia and Europe

Moderator Dan Gastambide / Satish Gore

1) Fujio Ito Japan (5)

2) Satish Gore India (5)

3) Dei wei Zou - China (5)

4) Daniel Gastambide - France- Europe (5min)

5) Ricardo Ruiz-Lopez – Spain - Europe (5min)

6) Tarik Yazar - President ICMISS Ankara, Turkey (5min)

8: 30 - 9:30 Interventional Pain Management

Moderator : Tom Apostle

1) Complications of Spinal Injections - Chris Zarembinski (10min)

2) Patient Outcomes: How Can They Be Assessed and Applied to Clinical Practice? - Tom Apostle (10min)

3) Surgeon Interactions with Pain Management Physicians and Effects on Patient Care - Pable Pazmino (10min)

4) Hematologic Issues for Interventional Pain Management - Nicholas Fuller (10min)

5) Discography - Intradiscal Pain Solutions - Richard Derby (10min)

Questions (10)

9:30 - 10:00 Coffee Break

10:00 - 11:00 Scientific Session 2 : Spinal Stenosis I

Moderators Rudolph Morganstern / Carl Laouessyn

1) Lumbar Spinal Stenosis: Pathoanatomic Guidance for Tissue Sparing Approaches - Wolfgang Rauschnig (10min)

2) MIS Decompression (Boxano) - Carl Laouessyn (6min)

3) Surgifile: An Innovation Automated Tool for Central and Lateral Recess Decompression - Murat Cosar (6min)

4) Lumbar Foraminal Stenosis Surgery with Foraminoplasty under Direct Endoscopic Vision - Rudolph Morganstern (6min)

5) Bilateral Spinal Decompression of Lumbar Central Stenosis - Patrick Hahn (6min)

6) Multilevel Foraminotomy MISS - Robert Saftic (6min)

7) Endoscopically Assisted MED Decompression for Lumbar Spinal Stenosis - Kai Uwe Lewandrowski (6min)

8) Clinical Application of Posterior Para-median Approach in Low Back Surgeries - Dei Wei Zou (10min)

Questions (4min)

11:00 - 11:30 Moderators Anthony Yeung / Yinggang Zheng

1) Controversies in Spinal Infection - Alex Hadjipavlou (20min)

2) Infectious Spondylodiscitis Treated by Endoscopic Debridement - Manabu Ito (6min)

Questions (4min)

11:30 - 12:15 Free Paper Session 4 : MIS Philosophy and MIS Clinical Studies

1) Minimally Invasive Spine Surgery - Dong Yeob Lee (5min)

2) A New Technique; Safe for the Patient, Easier for the Surgeon and More Economical for the Society - Sayed Rezian (5min)

3) MRI & Stadiometric Assessment of the Lumbar Discs after Sitting & Chair - Jerome Fryer (5min)

4) Is Percutaneous Endoscopic Lumbar Discectomy showing Less Invasive Procedure than Open Discectomy? - Shao Keh Hsu (5min)

5) MISS Results Assessment which Disability Scale to use? - Stephanos Pichas (5min)

6) MISS and Small Sample Statistics - Stephano Pichas (5min)

7) Challenges of the Endoscopic Nucleotomy - Oscar Requena Suarez (5min)

Questions (10min)

12:15 - 13:30 Lunch / Industrial Workshops / Cadaver Workshops in Hotel

Moderators Steve Hochschuler / Rudolph Morganstern

13:30 - 13:45 The Case for Motion Preservation: Antonio Castelvi (15min)

13:45 - 14:55 Scientific Session 3 : Spinal Stenosis / Dynamic Stabilization

- 1) Decompression Alone for Spinal Stenosis - Ho Kyun Ha (10min)
- 2) Gel fx: A Hydrogel Intraspinous Device for MIS Dynamic Stabilization following MIS Decompression for Mild to Moderate Spinal Stenosis - Carl Laouressyn (3min)
- 3) X-STOP in Degenerative Lumbar Spondylolisthesis - Rayshad Ostory (6min)
- 4) Feasibility Study for X-Stop for Claudication in Developing Nations - Emili Nosova (4min)
- 5) Outcome versus Age: a Retrospective Patient Chart Review after X-STOP - Emili Nosova (4min)
- 6) Percutaneous Lumbar Interspinous Spacer for lumbar spinal stenosis preliminary result - Won Chul Choi (6min)
- 7) Interspinous Distraction and Stabilization with the Superior Implant for Effective Minimally Invasive Treatment of Moderate Spinal Stenosis - Stephan Hellinger (6min)
- 8) Interspinous Spacers and Minimally Invasive Spine Surgery - Jose Rugeles (6min)
- 9) First Results with Percutaneous Lumbar Spine Implants- Dynabolt - Rudolph Morganstern (6min)
- 10) Full Percutaneous Fusion and Dynamic Stabilization - Stephan Hellinger (6min)
- 11) Minimally Invasive Treatment of Lumbar Spondylolisthesis; New Technique - Braulio Hernandez (4min)
- 12) Interspinous Locker Fixation - Dong Yeob Lee (5min)

Questions (4min)

14:55 - 15:35 Scientific Session 4 : SI Joint dysfunction

Moderator Steve Garfin

- 1) SI Joint Pain / Dysfunction - Steve Garfin (10min)

2) SI Bone and Fusion Rods - Mark Reiley (10min)

3) Cage Fusion - John Stark (10min)

Questions (10min)

15:35 - 16:05 Coffee break

16:05 - 16:45 Free Paper Session 5 : Vertebralplasty / Kyphoplasty

Moderators Steve Garfin / Mark Reiley

1) Comparison of Osteoporotic Vertebral Fracture with or without Involvement of the Posterior Edge Treated with Kyphoplasty - Antonio Krger (5min)

2) Balloon Kyphoplasty - Christian Alexander Khne (5min)

3) Clinical Applications of Percutaneous Vertebroplasty in Osteoporotic Fractures - Zhong-Liang Deng (5min)

4) Higher Incidence for Adjacent Vertebral Fractures following Vertebroplasty and Kyphoplasty - Fact or Fiction? - Christopher Bliemel (5min)

5) Our Experience with over 100 Levels of Kyphoplasty - Stephanos Pichas (5min)

6) Vertebral Height Restoration - Stephanos Pichas (5min)

Questions (10min)

16:45 - 17:20 Free Paper Session 6 : Vertebralplasty / Kyphoplasty : Effects / Risks

1) Cement Interdigitation and Bone Cement Interface - Ludwig Oberkiercher (5min)

2) Effect of Cementing on Pulmonary Arterial Pressure in Vertebroplasty - Cagatay Ozturk (5min)

3) Effect of Mechanical Aspiration of the Vertebral Body before Vertebroplasty - Cagatay Ozturk (5min)

4) Is it really Low Pressure Injection of PMMA in Percutaneous Kyphoplasty? - Zhong Liang Deng (5min)

5) Risk and Treatment Options of Pulmonary Cement Embolization during Vertebro or Kyphoplasty - Christian Alexander Khne (5min)

Questions (10min)

17:20 Adjourn

Day 3 : June 3rd (Thursday)

7:00 - 8:00 Breakfast Seminar Moderator Anthony Yeung/ Doug Wardlaw

- 1) Review of Chymopapain as a Level I EBM MIS Technique - Gunnar Anderson / Anthony Yeung
- 2) 25 Year long Term Follow up of Chemonucleolysis - Doug Wardlaw
- 3) Update on Chymopapain - Tom Davidson
- 4) Post Humus Tribute to Mike Hurd - Linda Hurd

8:00 - 8:10 Scientific Session 5 - Cervical spine

Moderators : Daniel Gastambide, Patrick Hahn

Surgical Safeguards and Pitfalls in the cervical spine - Wolfgang Rauschniing (10min)

8:10 - 9:15 Free Paper Session 7 - Cervical Spine

- 1) Anterior Cervical Foraminotomy for Cervical Radiculopathy - Woo Kyung Kim (10min)
- 2) Cervical Percutaneous Nucleotomy - Thomas Hoogland (5min)
- 3) Operation of Cervical Disc Herniations with Full Endoscopic Posterior Foraminotomy; Prospective Comparison to ACDF - Patrick Hahn (5min)
- 4) Percutaneous Ozone Disectomy for Cervical Disc Prolapse - Vijay Sheel Kumar (5min)
- 5) Anterior Endoscopic Cervical Foraminoplasty - Kai-Xuan Liu (5min)
- 6) PECD for Cervical Radiculopathy - Won Chul Choi (5min)
- 7) Transcorporeal Tunnel Approach for Unilateral Cervical Radiculopathy (2 years FU) - Nicolas Prada (5min)

8) Indication of the Percutaneous Cervical Disc Decompression (PCD) -.Tolgay Santana (5min)

9) The Clinical and Radiological Changes after Percutaneous Endoscopic Cervical Discectomy: a Minimum 3 year follow-up - June Ho Lee (5min)

10) Cervical Disc Replacement in the Treatment of Cervical Myelopathy: A report on 12 Cases using a New Implant - Federic Jacquot (5min)

Questions (10 min)

9:15 - 10:15 Scientific Session 6 - MIS Fusion

Moderators Neel Anand / Larry Khoo

1) How to Negotiate the Pedicle without Inflicting Tissue Damage - Wolfgang Rauschnig (10min)

2) Review of MIS Fusion Techniques - Larry Khoo (15min)

3) MIS Spondylolisthesis Techniques in Lumbar Fusion - Daniel Kim (15min)

4) MIS Fusion for Deformity - Neel Anand (10min)

Questions (10min)

10:15 - 11:00 Free Paper Session 8 : MIS Fusion I

Moderators: Larry Khoo, Ali Araghi

1) Early Clinical Experience of the Interfuse Interbody Implant – Fusion with Confidence – Maximum Footprint, Minimum Aperture – Ali Araghi (10min)

2) Endoscopically Checked Transpedicular Screw Insertion - Tarik Yazar (5min)

3) Intraosseous Ultrasound (IOUS) for Intra-operative Control of Pedicle Screw Position - Sven Kantelhart (5min)

4) Comparison of Robot Assisted and Percutaneous Pedicle Screw Placement - Sven Kantelhart (5min)

5) Biomechanical and Fatigue Properties of Percutaneous Transpedicular-Transdiscal Fixation Accompanied by Facet Screw Fixation in the Lumbar - Isador Lieberman (5min)

6) Cobb Angle Electronic Measure: a Simple Device - Federic Jaquot (5min)

Questions (10min)

11:00 - 11:30 Coffee Break

11:30 - 12:45 Free Paper Session 9 : MIS Fusion II

Moderators Justin Field / Isador Lieberman

- 1) Robotic Surgery in MIS spine - Isador Lieberman (5min)
- 2) MIS in the Treatment of Idiopathic Scoliosis; A New Concept - Cornelius Wimmer (5min)
- 3) Percutaneous Short Fixation vs Conservative Treatment - Nicola Marotta (5min)
- 4) Pe-TLIF, Uni or Biportal? - Daniel Gastambide (5min)
- 5) Minimal vs Standard Posterior Lumbar Fusion, Minimal Invasive - Stephanos Pichas (5min)
- 6) Decompression and I-Lif Spinous Process Stabilization / Fusion - Justin Field (5min)
- 7) MIS Fusion using Ouroboros™, a Novel Annular Ring Containment Device - Tom Raley (5min)
- 8) Mini-invasive Instrumental Transforaminal Interbody Fusion (TLIF) - Peter Vanek (5min)
- 9) Restoring Sagittal Balance in Minimal Invasive Posterior Spinal Fusion - Stephanos Pichas (5min)
- 10) Percutaneous Pedicle Screw Fixation in Treatment of Traumatic Vertebral Thoraco-lumbar Fracture: Analysis of 90 Cases - L Proietti (5min)
- 11) Spine Lumbar Fusion with Minimally Invasive Screws (Stryker) - Alvaro Dowling (5min)
- 12) New Endoscopic Percutaneous TLIF with Silverbolt™ Screw Fixation - Rudolph Morgenstern (5min)
- 13) New Material for Spinal Fusion: Composite Demineralized Bone Matrix and Silane Modified Gelatin - Bosun Kwon (5min)

Questions (10min)

12:45 - 14:00 Lunch Break on your own

14:00 - 14:45 Scientific Session 7 : Complications and Avoidance

Moderators Chris Meredith / Isador Lieberman

- 1) Complications of Minimally Invasive Spine Surgery (MISS) - Christopher Meredith (6min)
- 2) Study design: SCS in 60 FBSS - Eduardo Barretto (8min)
- 3) Complications in MIS Spine Surgery - Isador Lieberman (10min)
- 4) Anomalous Anatomy in the Foramen: An Unavoidable Risk for Dysesthesia in Foraminal Surgery - Anthony Yeung (10min)

Questions (11min)

14:45 - 15:50 Free Paper Session 10 : MIS Trauma and Neoplasm

Moderators Dan Kim/ Patrick Johnson

- 1) Mini Thoracotomy Trans Diaphragmatic Approaches to Thoracolumbar Junction for Tumor / Trauma - Daniel Kim (15min)
- 2) Minimally Invasive Approach for Metastatic Spinal Tumor – Masataka Sakane (10min)
- 3) New Minimal Invasive Techniques in the Treatment of Intramedullary Pathologies - Peter Banczerowski (5min)
- 4) Application of Sodium Ibandronate in Recurrent Giant Cell Tumors - Wei Zhang (5min)
- 5) Axial Puncture Approach for Percutaneous Sacroplasty - Zhong-Linag Deng (5min)
- 6) Excision of Osteoid Osteoma inside the Femur by a Foraminal Endoscope: a Case Report - Alkrad Abdulrahman (5min)
- 7) Initial Results with Anterior TDR with 'Activ L' in Rio De Janeiro - Eduardo Barretto (10min)

Questions (10min)

15:50 - 16:00 Fellowship Training in Spinal Surgery - J. Patrick Johnson (10min)

16:00 - 17:00 Executive Committee Meeting

- 1) WCMISST / IITS Committee Reports
- 2) Election of new officers

Day 4 : June 4th (Friday)

9:00 - 12:00 Farewell Awards Breakfast

1. Awards
 - 1) Best clinical Presentation
 - 2) Best Basic Science Presentation
 - 3) Best Poster

2. Announcement
 - 1) Meeting Announcement of WCMISST III, 2012
 - 2) Meeting Announcement of IITS, 2011
 - 3) Announcement of new officers of WCMISST

Poster Presentations

- 1) Characterization of scaffold carriers for BMP9 in spine fusion - Zhong-Liang Deng
- 2) Insulin-like Growth Factor 2 potentiates BMP9-induced osteogenic differentiation of stem cells and bone formation - Zhong-Liang Deng
- 3) Application of minimally invasive para-erector muscle of spine approach - Zhong Lian Deng
- 4) Fractures secondary to osteoporosis - Mehmet Ali Deveci
- 5) Minimal Cervical laminoforaminotomy with preserving lateral mass - Jae Chil Chang
- 6) Percutaneous Laser Disc Decompression: our experience with usage of the Diode Laser - Robert Saftic
- 7) A Rational Approach to Endoscopic Foraminal Surgery - A Yeung, C Yeung

- 8) Complication risks of the Foraminal endoscopic Approach to the Lumbar Spine - A Yeung, C Yeung
- 9) Dorsal Endoscopic Rhizotomy for Non-discogenic axial Back Pain - A Yeung, C Yeung
- 10) In-vivo visualization of patho-anatomy in Foraminal Endoscopic Lumbar Surgery - A Yeung, C Yeung
- 11) The Surgical Anatomy of Lumbar Nerves, Autonomic, Sympathetic, and Furcal: Their Significance in Selective Endoscopic Discectomy™ - A Yeung, Y Zheng, C Yeung, J Field
- 12) Radiation to Surgeon's Hands Wearing and Not Wearing Lead Gloves - A Yeung, Y Zheng
- 13) The role of discography in endoscopic discectomy A Yeung , Walter Bini
- 14) Selective Endoscopic Discectomy A Yeung
- 15) The surgical results of SED™ on workman's comp patients Shaun Wei, A Yeung
- 16) Neudisc Lumbar Nucleus replacement A Yeung, James Yue, Ann Prewett