



**International Conference on Clinical Spine & Orthopedic Biomechanics: Virtual**

April 16-18, 2021

**16<sup>th</sup> April, 2021, Clinical Spine Biomechanics**

Time	Topic
<b>0730-0945</b>	<b>Session I- Intervertebral Disc – Tissue Mechanics</b> <b>Session Chair - Dr Ramesh Kumar, Dr Ajoy Shetty, Dr Narkeesh Arumugam</b> <b>CONFERENCE HALL</b>
0730-0738	The Effectiveness of DisCure® Treatment Using Ex-Vivo Porcine Intervertebral Disc Culture – <b>Dr Vijay Goel</b>
0738-0746	Anatomy of lumbar disc herniation: End plate failure versus annular tear. - <b>Dr Saumyajit Basu</b>
0746-0754	Changing paradigm of cervical disc replacement: Biomechanical Perspective - <b>Dr Ranjith Unnikrishnan</b>
0754-0802	Lumbar disc replacement: Where are we now? - <b>Dr Anand Naik</b>
0802-0810	Biomechanical advantage of Transforaminal discectomy versus Microdiscectomy - <b>Dr. Manoj Sharma</b>
0810-0818	Biomechanics of cervical spine- Laminectomy versus Laminoplasty - <b>Dr Samir Dalvie</b>
0818-0826	Adjacent segment degeneration: Biomechanical aspects in cervical spine. – <b>Dr S. Rajasekaran</b>
0826-0834	Biomechanical study of cervical disc arthroplasty devices using Finite Element Modelling (FEM) – <b>Dr. Hoon Choi</b>
0834-0842	Establishment of simple in vitro disease model system for degenerative Intervertebral disc by microfabricating tissue equivalents with precise spatiotemporal and cellular microenvironments, using cells and Textile polymer based constructs - <b>Dr Sourabh Ghosh</b>
0842-0900	<b>Discussion</b>
0900-0945	<b>Panel discussion:</b> Is Multi-level cervical disc replacement/ hybrid superior over multilevel fusion: what's the evidence? <b>Moderator:</b> Dr Gautam Zaveri <b>Panelists:</b> Dr K Das, Dr Pravin Padalkar, Dr Sourabh Ghosh, Dr Narkeesh Arumugam, Dr B Mohapatra, Dr Abhinandan Reddy, Dr Amritlal Mascarenhas, Dr Saransh Gupta
<b>0945-1000</b>	<b>Break</b>
<b>1000-1135</b>	<b>Session II: Motion Segments: Load Sharing</b> <b>Session Chair: Dr Roop Singh, Dr Dilip Sinha &amp; Dr S K Srivastava</b> <b>CONFERENCE HALL</b>
1000-1010	Biomechanical aspects of adult spine deformity correction



	- <b>Dr S K Srivastava</b>			
1010-1020	Synovial cysts in lumbar spine – when to fuse - <b>Dr Arvind Kulkarni</b>			
1020-1030	Is lumbar facet joint tropism developmental or secondary to remodeling changes? - <b>Dr Janardhana Aithala P</b>			
1030-1040	Biomechanical aspects in clinical practice for high grade listhesis - <b>Dr Shankar Acharya</b>			
1040-1055	<b>Discussion</b>			
1055-1135	<b>Panel discussion:</b> Biomechanics of spine fixation- Does Robotics offer an edge over conventional method? <b>Moderator: Dr H.S. Chhabra</b> <b>Panelist-</b> Dr Amit Roy Chowdhury, Dr G. Saravana Kumar, Dr Ram Chaddha, Dr Sajan Hegde, Dr Ankur Nanda, Dr Gururaj Sangodimath, Dr Rajat Mahajan, Dr Kalyan Varma,			
<b>1135- 1230</b>	<b>Session III: Spine: Injury/Degeneration/Pain</b> <b>Session Chair: Dr Sunil Katoch, Dr Rajagopalan, Dr Harihara Prakash</b> <b>CONFERENCE HALL</b>			
1135-1145	Biomechanical Aspects of cervico thoracic junctional injuries - <b>Dr Ajoy Shetty</b>			
1145-1155	Biomechanical perspective of pressure loading on intervertebral discs - <b>Dr Rajagopalan</b>			
1155-1205	Effect of range of motion (ROM) for pedicle-screw fixation on lumbar spine with rigid and semi-rigid rod materials: A finite element study – <b>Dr Amit Roy Chowdhury</b>			
1205-1215	Rear-impact neck whiplash: Role of head inertial properties and spine morphological variations on segmental rotations – <b>Dr G. Saravana Kumar</b>			
1215-1230	Discussion			
<b>1300-1345</b>	<b>HALL B</b>	<b>HALL C</b>	<b>HALL D</b>	<b>HALL E</b>
	Demonstration on wheelchair seating biomechanics for pressure ulcers and deformity prevention  <b>Mr. Nekram Upadhyay</b>	Demonstration of virtual reality in orthopedic & spine ailments  <b>Ms Nishu Tyagi Dr Shakti A Goel</b>	Demonstration of kinematics Data acquisition using electromagnetic system  <b>Dr Vandana Phadke</b>	Demonstration of Biomechanical principles & analysis of design, fabrication & application of splinting  <b>Ms Shivangi Mehra Ms Sakshi Saharawat</b>



	<b>CONFERENCE HALL</b>
<b>1345- 1545</b>	<p><b>Recorded videos of international Biomechanics labs (15 mins each)</b></p> <ol style="list-style-type: none"> <li>1. <b>Dr Vijay Goel (1345-1400)</b></li> <li>2. <b>Dr Gerd Huber (1400-1415)</b></li> <li>3. <b>Dr Hoon Choi (1415-1430)</b></li> <li>4. <b>Dr Bhavuk Garg (1430-1445)</b></li> </ol>
<b>1545-1630 (5+2 min)</b>	<p><b>Session V: Free Paper Session</b> <b>Session chair: Dr K. Das &amp; Dr Manoj Sharma</b></p> <p style="text-align: right;"><b>CONFERENCE HALL</b></p>
1545-1550	<p>Correlation of Innominate torsion with low back pain post pregnancy – <b>Dr. Jaspreet Kaur</b></p>
1550-1555	<p>All-Posterior Approach in Surgical Management of Thoracolumbar Tuberculosis; A Prospective Randomized Study Comparing Posterior-Only Stabilization Versus Global Reconstruction – <b>Dr.K.Guna Pratheep</b></p>
1555- 1600	<p>Biomechanics of cervical facet joint effusion: a sign of instability in cervical degenerative spondylolisthesis. – <b>Dr. Goparaju VNR Praveen</b></p>
1600-1605	<p>To compare the strength of gluteal muscles in subject's with &amp; without chronic mechanical low back pain – <b>Ms. KhushbuSahu</b></p>
1605-1610	<p>Multi-Rod Constructs in Thoracolumbar spine: Technique, Indications and outcomes – <b>Dr. Vishal Manharkumar Dindod</b></p>
1610-1615	<p>Intradiscal Vacuum Phenomenon (IDVP): radiological factors to predict the selective appearance and a new morphological classification system – <b>Dr. Chandhan Murugan</b></p>
1615-1630	Discussion
<b>1630-1815</b>	<p><b>Session IV: Deformity and Osteoporosis</b> <b>Session Chair: Dr HS Bhatoe&amp; Dr Bharat Dave</b></p> <p style="text-align: right;"><b>CONFERENCE HALL</b></p>
1630-1640	<p>Biomechanical constraint of osteoporotic spine - <b>Dr. K Das</b></p>
1640-1650	<p>Magnetic growth rods in EOS Biomechanics, indications &amp; complications – <b>Prof. Arvind Jayaswal</b></p>
1650-1700	<p>Active Apex Correction for EOS (modified SHILLA technique): What does biomechanical data from a patient-specific finite element study simulating 6-month growth tell us? - <b>Dr. Daksh Jayaswal</b></p>
1700-1715	<p>Nonfusion anterior scoliosis correction- a new direction in deformity management? - <b>Dr Sajan Hegde</b></p>
1715-1725	<p>Cortical Threaded Pedicle Screw Improves Fatigue Strength In Decreased Bone Quality – <b>Dr Gerd Huber</b></p>



1725-1740	Discussion
1740-1815	<b>Panel Discussion:</b> Proximal junction failure in Adult deformity <b>Moderator: Dr Raghavendra S</b> <b>Panelist:</b> Dr Ajoy Shetty, Dr Gerd Huber, Dr Aditya Ingalhalikar, Dr AgniveshTikoo, Dr Neeraj Gupta, Dr. TarushRustagi, Dr Vishal Nigam, Dr Shah Waliullah, Dr Darshan Gautam
1815-1825	<b>Break</b>
1825-1855	<b>Panel discussion:</b> Back and neck ergonomics in Orthopaedics and spine surgery <b>Moderator- Dr Kshitij Chaudhary</b> <b>Panel:</b> Dr S K Srivastava, Dr Chitra Kataria, Dr Vikas Tandon, Dr V. Srikumar, Dr Roop Singh, Dr Dilip Sinha, Dr Harihara Prakash, Dr ML Bansal
1855-1905	<b>Break</b>
1905- 1935	<b>Panel discussion:</b> Biomechanics and alignment considerations in cervical spine surgery <b>Moderator: Dr Rupinder Chahal</b> <b>Panel:</b> DrAmish Sanghvi, Dr Rahul Kaul, Dr KedarPhadke, Dr Raghavendra V, Dr Karthik Yelamarthy, Dr Ashok Reddy, Dr Sahil Batra,
<b>1935-2015</b>	<b>A Tribute to Prof. Patrick Kluger</b>
<b>1935-2015</b>	<b>Dr Patrick Kluger Session: Innovation in spine and orthopedic biomechanics</b> <b>CONFERENCE HALL</b>
1935-1940	Introduction to the Innovation workshop – <b>Dr. Shakti Goel</b>
1940-1950	- Introduction to our laboratory and work - Medical Devices, Design and Fabrication: From Academia to Industry - <b>Mr.GaffarGailani</b>
1950-2000	- Introduction to our laboratory and work - Developing corrosion free metals: Past, present and Future – <b>Dr (Prof) Rajeev Gupta</b>
2000-2010	- Introduction to our laboratory and work - Finite element analysis in Cervical Injuries - <b>Dr Vicky Varghese</b>
2010-2015	<b>Discussion and Lets collaborate session</b>

**DAY 1**



**4<sup>th</sup> International Conference on Clinical Spine&Orthopaedic Biomechanics: Virtual**

April, 16-18, 2021, ISIC

**17<sup>th</sup> April, 2021, Clinical Orthopaedic Biomechanics**

Time	Topic
<b>0730-0830 (5+2 min)</b>	<b>Session I- Free paper session</b> <b>Session Chair: Dr Sumit Singh Khurana &amp; Dr. Vivek Mahajan</b> <b>CONFERENCE HALL</b>
0730-0735	Reliability of digital photography for measurement of hip range of motion – <b>Dr.Girish Nathani</b>
0735-0740	Electromyographic activation of trunk and hip muscles during yoga poses – <b>Ms. Mansi Dewan</b>
0740-0745	Effect of school backpack loads on pelvic tilt among school children – <b>Dr Pragya Kumar</b>
0745-0750	Immediate effect of bilateral ankle kinesio taping on balance and strength in community dwelling elderly population. – <b>Ms. Bharti Arora</b>
0750-0755	6 Week Pilates Program for Postpartum Low Back Pain to evaluate its Efficacy on Pain, Muscle Strength and Inter-rectus distance: A Pilot Study. – <b>Ms. Priyanka Rishi</b>
0755-0800	Feasibility of L-Gear: A new interactive therapy tool in rehabilitation of individuals with osteoarthritis undergoing primary Total Knee Arthroplasty (TKA) – <b>Mr. Vibhuti</b>
0800-0805	Comparative Effectiveness of Nintendo Wii Based Balance Training versus Conventional Balance Training after Total Knee Arthroplasty : A Pilot Randomized Controlled Trial – <b>Ms. Manjyot Kaur</b>
0805-0810	To compare and find the effect of gluteal muscles activation exercises and core stability training on upper extremity kinematics and throwing performance in cricket players – <b>Dr Amrinder Singh</b>
0810-0830	Discussion
<b>0830-1040</b>	<b>Session II – Orthopaedic Biomechanics &amp; Trauma</b> <b>Session Chair: Dr Lalit Maini, Dr. Vijay Goel</b> <b>CONFERENCE HALL</b>
0830-0840	Relation between loading types, bone loss in long bones & fracture: Biomechanical perspective - <b>Dr Navin Kumar</b>
0840-0850	Multifaceted approach (i.e. cadaveric experiments, computer 5rthopaed and human subject testing) to identify the non-contact mechanisms of ACL injuries



	– <b>Dr Vijay Goel</b>
0850-0900	Use of 3D printing in trauma- surgical perspective - <b>Dr Lalit Maini</b>
0900-0910	Fracture fixation planning- What to aim for: primary or secondary healing? – <b>Dr. Deepak Raina</b>
0910-0920	Future of fracture fixation – <b>Dr Vivek Trikha</b>
0920-0930	Role of Biomechanics in clinical Orthopaedic assessment & treatment planning - <b>Dr Dinesh Kalyanasundaram</b>
0930-1000	Discussion
1000-1040	<b>Panel discussion:</b> Failures in fracture fixation <b>Moderator:</b> Dr Ritabh Mittal/Dr Pushkar Chawla <b>Panelist:</b> Dr Harmesh Kapoor, Dr Lalit Maini, Dr Vivek Trikha, Dr Navin Kumar, Dr Dinesh Kalyanasundaram, Dr Deepak Raina, Dr Vijay Goel, Dr Surbhit Rastogi, Dr Hitesh Dawar
1040-1050	<b>Break</b>
1050-1210	<b>Session III – Finite Element Analysis (FEA)</b> <b>Session chair:</b> Dr Puneet Mahajan, Dr Anoop Chawla <b>CONFERENCE HALL</b>
1050-1100	FEA for dummies - <b>Dr Ajeet Kumar</b>
1100-1110	Application of FEA in Orthopaedic biomechanics - <b>Dr Vijay Goel</b>
1110-1120	Role of FEA in implant design and testing - <b>Dr Kaushik Mukherjee</b>
1120-1130	Discussion
1130-1210	<b>Panel discussion:</b> Does FEA offer an edge over experimental biomechanics in Orthopaedics? <b>Moderator:</b> Dr Vijay Goel /Dr Kaushik Mukherjee <b>Panelist:</b> Dr Ajeet Kumar, Dr Anoop Chawla, DrPuneet Mahajan, DrLalit Maini, Dr Maninder Shah Singh
1210-1410	<b>Rehabilitation &amp; Innovation session</b> <b>Session chair:</b> Dr Mantu Saha <b>CONFERENCE HALL</b>
1210-1220	Role of imaging in analysis of motion – <b>Dr Vandana Phadke</b>
1220-1230	Sports injuries biomechanics – <b>Mrs Sonal</b>
1230-1240	The yogic benefits through musculoskeletal biomechanics – <b>Dr MantuSaha</b>
1240-1250	Is core stability a myth?





	– <b>Mrs Meena Makhija</b>	
1250-1300	Biomechanics of spine braces – <b>Ms Aishwarya Kaur</b>	
1300-1310	Role of myofascial mechanics in sports injuries – <b>Mr Piyush Singh</b>	
1310-1320	Effects of wedges insoles on knee pain & lower extremity biomechanics – <b>Dr Ajeet Kumar Verma</b>	
1320-1330	Biomechanics of wrist instability – <b>Mr Ashish Jha</b>	
1330-1340	Biomechanical & Rehabilitation considerations of shoulder joint in post stroke hemiparesis – <b>Mr Vikas</b>	
1340-1350	Shoulder biomechanics in spinal cord injury – <b>Mrs Meenakshi Singh</b>	
1350-1410	Discussion	
<b>1435-1500</b>	<b>Innovation in spine and Orthopaedic biomechanics</b> <b>HALL B &amp; C</b>	
1435-1440	Introduction to the workshop – <b>Dr Shakti Goel</b>	
1440-1450	- Introduction to our laboratory and work - feasibility of osteoporosis detection from electro-mechano gram (emg) signature using piezo-based wearable devices – <b>Prof Suresh Bhalla</b>	– Introduction to our laboratory and work – 3D printing for orthosis: Newer concepts and how we do it – <b>Mr Nishant Agarwal</b>
1450-1500	- Introduction to our laboratory and work - Texture measurement of metals: what is new: Learning points for metallic implant testings – <b>Prof Shiv Sharma</b>	- Introduction to our laboratory and work - Advanced Implant Materials – <b>Dr Ankita Awasthi</b>
<b>1530-1740</b>	<b>Session IV – Arthroplasty</b> <b>Session Chair: Dr J. Maheshwari, Dr. G Bedi</b> <b>CONFERENCE HALL</b>	
1530-1540	Why do hips fail?- Biomechanical perspective – <b>Dr S.K.S Marya</b>	
1540-1550	Role of AI in design of Femoral Implant in Total Hip Arthroplasty – <b>Dr Chanda Souptik</b>	
1550-1600	Robotics in total hip replacement- Is it the future? – <b>Dr Kamaldeep</b>	
1600-1610	Use of 3D printing in shoulder arthroplasty – <b>Dr Puneet Monga</b>	



1610-1620	Shoulder motion analysis of reverse shoulder prosthesis with/without latissimus dorsi transfer – <b>Dr Paolo Paladini</b>
1620-1630	Acceptable mal-alignment in TKA – <b>Dr Chandeeep Singh</b>
1630-1640	Revision TKA with extracortical fixation vs intermedullary fixation: Biomechanical perspective – <b>Dr Bidyut Pal</b>
1640-1650	Bone ingrowth and remodelling around an uncemented femoral implant – <b>Dr Sanjay Gupta</b>
1650-1700	Discussion
1700-1740	<b>Panel discussion: Failures in Arthroplasty</b> <b>Moderator:</b> Dr G. Bedi/ Dr Ashish Taneja <b>Panelist:</b> Dr P S Gill, Dr Chandeeep Singh, Dr J. Maheshwari, Dr Sanjay Gupta, Dr Bidyut Pal, Dr Chanda Souptik, Dr Pradeep Sharma, Dr Vivek Mahajan, Dr Sumit Khurana
1740-1752	<b>Break</b>
1752-2010	<b>Session V – GAIT &amp; Sports Injuries</b> <b>Session Chair: Dr Vinod Kumar, Dr Deepak Choudhary</b> <b>CONFERENCE HALL</b>
1752-1800	3D movement analysis in Sport – Lessons to be learnt from clinical gait analysis – <b>Dr.Fraser Philp</b>
1800-1810	Role of AI in GAIT analysis – <b>Dr Deepak Joshi</b>
1810-1820	Isolated ACL injuries- Do they need reconstruction – <b>Dr Raju Easwaran</b>
1820-1830	AC joint biomechanics & its clinical relevance – <b>Dr Harpreet Singh</b>
1830-1840	Biomechanics & Arthroscopic management of sports injuries in the knee – <b>Dr Deepak Choudhary</b>
1840-1850	Biomechanical modelling of tendon transfers – <b>Dr Simon Pickard</b>
1850-1900	Biomechanics of the subtalar joint – <b>Prof Andrew Goldberg</b>
1900-1910	Cartilage injuries of the knee: treatment and biomechanics perspective – <b>Dr Raju Vaishya</b>
1910-1930	Discussion
1930-1940	<b>Break</b>





1940-2000	<b>Debate(20 mins):</b> Deltoit ligament repair in ankle fracture Moderator: <b>Dr Maninder Shah Singh</b> Panelist: <b>Prof Andrew Goldberg</b> For: <b>Dr Pradeep Moonot</b> Against: <b>Dr Balvinder Rana</b> <b>Timings:</b> for (5 mins)+Against(5 mins)+Panel discussion(7 mins)+ Moderator conclusion statement(3 mins)
2000-2010	Design & development of footwear: Ergonomics and biomechanics approaches - <b>Dr Madhusudan Pal</b>

DAY 2



Day 3- 18<sup>th</sup> April, 2021

18<sup>th</sup> April, 2021, Applied Biomechanics from Bench to Market

Time	Topic
<b>0800-0830</b>	<b>Competitive best poster (6 posters, 3+2 minutes)</b> <b>Judges: Dr Rajagopalan, Dr Ritabh Mittal, Dr Harmesh Kapoor</b> <b>CONFERENCE HALL</b>
0800-0805	Clinical efficacy of ultrasound guided bilateral erector spinae block for single level lumbar fusion surgery: A prospective, randomized, case-control study - <b>Dr. Swapnil Sanjay Hajare</b>
0805-0810	Development of wrist driven writing device for patients with SCI - <b>Sweta Rathee</b>
0810-0815	Improvement in Posture, Strength and Balance using Chest Strap for Persons with Spinal cord Injury - <b>Rajesh Sharawat</b>
0815-0820	Recurrent cervical myelopathy due to C2 GCT post denosumab therapy - <b>Dr Kuldeep Bansal</b>
0820-0825	Symptomatic Post-Surgical Lumbar Pseudomeningocele Treated by Ultrasound Guided Epidural Blood Patch Application-Case Report - <b>Dr K Guna Pratheep</b>
0825-0830	Cut off points for Body Mass Index (BMI) in Spinal Cord Injury using Bioelectrical Impedance Analysis - <b>Mahmood Aldobali</b>
<b>0845-0945</b>	<b>Competitive best paper session (7 papers, 6+2 minutes)</b> <b>Judges: Dr Shankar Acharya, Dr Ajoy Shetty, Dr Raju Vaishya, Dr Lalit Maini</b> <b>CONFERENCE HALL</b>
0845-0853	Artificial Intervertebral Disc - <b>Satyajit Maurya</b>
0853-0901	Evaluation of Static Balance Ability among Young Individuals by Posturography - <b>Abhinav Sathe</b>
0901-0909	Analysis of joint space width alteration and translation of humeral head after physiotherapy intervention in patients with adhesive capsulitis - <b>Meena Makhija</b>
0909-0917	Loading patterns of 2 total knee implant designs in the presence of knee malalignment during activities of daily living: a finite element analysis - <b>Gautam Shetty</b>
0917-0925	Influence of Vertebral Disc angle on Inter body fusion Range of Motions - <b>Subin P George</b>
0925-0933	Effect of different meshing parameters on foot insole materials - <b>Shubham Makode</b>

DAY 3



0933-0941	Effects of posterior spinal fusion surgery on spine and lower extremities kinematics during gait in patients with adolescent idiopathic scoliosis – <b>Manish Gupta</b>
0945-1000	<b>Break</b>
1000-1050	<b>Product Design to Marketing</b> <b>CONFERENCE HALL</b>
1000-1010	Design Think Tank: The Way Forward - <b>Mr. Scott Knox</b>
1010-1020	How to patent the designed products - <b>Mr. Dinesh Jotwani</b>
1020-1030	Commercialization & marketing of orthopaedic Implants: How we do it? - <b>Mr. Jayanath</b>
1030-1040	Design thinking for orthopaedic and spine management - <b>Dr Prashant Jha</b>
1040-1050	Discussion
1050-1100	<b>Break</b>
1100-1300	<b>Dr Patrick Kluger Session: Learning from Stalwarts – The Success Stories</b> <b>Session Chair: Dr Ram Chaddha&amp; Dr S L Yadav</b> <b>CONFERENCE HALL</b>
1100-1110	Expandable Inter-Vertebral Cage and Method of Installing Same Publication number: 20140379086 Filed: September 20, 2012 Publication date: December 25, 2014 <b>Inventors:</b> MohammadElahinia, Anand Agarwal, <b>Dr Vijay Goel</b> , Walter Anderson, Cory Chapman (Skype talk)
1110-1120	Affordable Manual Standing Wheelchair Patent number: 294291 (Indian Design registration) Date of Patent: May 31, 2017 <b>Portable manual standing wheelchair</b> Inventor: <b>Dr. Sujatha Srinivasan</b> , Vivek Sarda, Swostik Sourav Dash
1120-1130	Design of Elbow Prosthesis: <b>Inventor: Dr Dinesh Kalyanasundaram</b>
1130-1140	A wheeled walker with breaking system <b>Inventor: Prof SN Singh, IIT Delhi</b>
1140-1150	Indian Patent Application No. 201911034729, entitled “Insole based foot pressure measurement system”, filed in August 2019: <b>Inventor:Deepak Joshi</b> , Ashutosh Tiwari
1150-1210	<b>Discussion</b>
1210-1220	<b>Break</b>
1220-1300	<b>Panel Discussion:</b> Newer innovations in prosthesis/orthosis for inclusiveness of specially abled <b>Moderator:</b> Dr Gita Handa



	<b>Panelist:</b> Dr Dinesh Kalyanasundaram, Dr Deepak Joshi, Dr S L Yadav, Prof SN Singh, Dr Mrinal Joshi, Dr V Srikumar, Dr Bhavuk Garg, Dr Sanjay Wadhwa
1300	<b>Valedictory and Disperse</b>
1330- 1545	<b>Session VII: Industrial workshops</b>
1330- 1415	The emerging role of predictive analytics, custom implants & enabling technologies in spine surgeries <b>Industry: Medtronic</b> <b>Presenter: Mr Shomik Mukherjee</b>
1415-1500	An in-depth look into the testing of Biomechanics and Orthopedics <b>Industry: ZwickRoell Pvt Ltd</b> <b>Presenter: Mr. Jochen Niederberger</b>
1500-1545	Topic: EOS Solution + spine and hip EOS: A perfect treatment planning tool <b>Industry: Jona Technologies</b> <b>Presenter: Mr Timon Dressler</b>

**DAY 3**