

## ISMST Certification Course (Colosseum II, Level 2)

13<sup>th</sup> July 2016, Wednesday

PT = Presentation Time DT = Discussion Time MIN = Minute

TIME		TOPIC	SPEAKER	PT (MIN)	DT (MIN)
0800	0810	Introduction	Kandiah Raveendran	10	
0810	0835	Physical Principles	Vinzenz Auersperg	20	5
0835	0900	Biological Principles	Wolfgang Schaden	20	5
0900	0920	Principles Of Shockwave Application	Richard Thiele	15	5
0920	0945	Demonstration Of Devices	Companies Representatives	25	
0945	1000	<b>TEA BREAK</b>			
1000	1020	Approved Standard Indications 1: Calcifying Tendinopathy Of The Shoulder Calcarea	Ludger Gerdesmeyer	15	5
1020	1040	Approved Standard Indications 2: Lateral Epicondylitis	Richard Thiele	15	5
1040	1100	Approved Standard Indications 3: Plantar Fasciitis	Karin Freitag	15	5
1100	1120	Approved Standard Indications 4: Achilles Tendinopathy	Ludger Gerdesmeyer	15	5
1120	1220	Workshop	All Instructors & Participants	60	
1220	1320	<b>LUNCH BREAK</b>			
1320	1340	Empirically-Tested Indications	Rainer Mittermayr	15	5
1340	1400	Myofascial Treatment	Karin Freitag	15	5
1400	1425	Bone Indications	Wolfgang Schaden	20	5
1425	1445	Skin Indications	Rainer Mittermayr	15	5
1445	1500	Future Potential Of ESWT	Wolfgang Schaden	10	5
1500	1545	Workshop	All Instructors & Participants	45	
1545	1600	<b>TEA BREAK</b>			
1600	1615	Socio-Political And Economic Issues	Kandiah Raveendran	10	5
1615	1630	Multiple Choice Test Certificates		15	



## ISMST Scientific Programme - Day 1 (Colosseum II, Level 2)

14<sup>th</sup> July 2016, Thursday

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TIME		TOPIC	ABSTRACT ID	PT (MIN)	DT (MIN)
0730	1800	<b>REGISTRATION &amp; INDUSTRIAL EXHIBITION</b>			
0800	0815	<b>OPENING CEREMONY</b>			
		<i>Kandiah Raveendran , President of ISMST Jose Ramon Aranzabal , Vice President of ISMST Jose Eid , ISMST General Secretary Wolfgang Schaden / Carlos Leal, ISMST Scientific Secretaries Kumar Thiyagarajah , Local Organising Committee</i>			
0815	0840	<b>GUEST KEYNOTE LECTURE I</b>			
		<i>Chairperson: Kandiah Raveendran</i>			
		<b>Stem Cells In Orthopaedic Surgery - Current Knowledge And Evidence</b>			
		<i>Eng-Hin Lee</i>			
0840	0900	<b>ISMST LECTURE I</b>			
		<i>Chairperson: Jose Ramon Aranzabal</i>			
		<b>What Have We Learned From Shockwave Medicine In 25 Years</b>			
		<i>Wolfgang Schaden</i>			
		<b>SHOCKWAVE MEDICINE BASIC SCIENCES</b>			
		<i>Chairperson: Ching-Jen Wang / Vinzenz Auersperg</i>			
0900	0920	Effect Of Shock Waves On Macrophages: A Possible Role In Tissue Regeneration And Remodelling	Keynote Lecture 1	15	5
		<i>Kandiah Raveendran</i>			
0920	0930	Shockwave Enhances Vessel Dilatation Through Nitric Oxide Production And Augments Angiogenesis Through VEGFR2 Recycling	Abstract 1	8	2
		<i>Sheng-Ying Chung</i>			
0930	0940	Shockwave Regulates Focal Adhesion Maturation And Cell Proliferation By Activating The mTOR-FAK Mechanotransduction Signaling Axis	Abstract 2	8	2
		<i>Fan-Yan Lee</i>			
0940	0950	The Exploration Of The Influences Of The Extracorporeal Shock Wave On Physiological Function Of Bone Microvascular Endothelial Cells	Abstract 3	8	2
		<i>Wei Sun</i>			
0950	1000	Shock Wave Promotes Cellular Uptake Of Methotrexate And Enhances Its Cytotoxicity For Osteosarcoma Cells By ATP Release	Abstract 4	8	2
		<i>Tiecheng Yu</i>			
1000	1010	Extracorporeal Shockwave Therapy Effectively Prevented Diabetic Neuropathy	Abstract 5	8	2
		<i>Chun-Man Yuen</i>			
1010	1030	Extracorporeal Shockwave Therapy In Diabetic Foot Ulcers	Keynote Lecture 2	15	5
		<i>Ching-Jen Wang</i>			
1030	1050	Discussion			20
1050	1110	<b>TEA BREAK &amp; EXHIBIT VISIT</b>			
		<b>MUSCLE</b>			
		<i>Chairperson: Kenneth Craig / Syah Irwan Shamsul Bahari</i>			
1110	1130	Acoustic Stimulation And Tropism On Skeletal Muscles: Perspectives On Tissue Resilience In Sports And Ageing	Keynote Lecture 3	15	5
		<i>Kenneth Craig</i>			
1130	1140	Update On The Efficacy Of Extracorporeal Shockwave Therapy For Myofascial Pain Syndrome And Fibromyalgia	Abstract 6	8	2
		<i>Karin Freitag</i>			

## ISMST Scientific Programme - Day 1 (Colosseum II, Level 2)

14<sup>th</sup> July 2016, Thursday

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TIME		TOPIC	ABSTRACT ID	PT (MIN)	DT (MIN)	
1140	1150	The Effect Of Radial Shock Wave Therapy On The Change Of Sonoelastography In Myofascial Trigger Point	Abstract 7	8	2	
		<i>Narin Ngamrungsiri</i>				
1150	1200	Combination Of ESWT And Dynamic Myofascial Treatment Improves Postural Stability And Spirometry Parameters In Athletes	Abstract 8	8	2	
		<i>Jiri Nedelka</i>				
1200	1210	rESWT For Postoperative Low Back Pain After Lumbar Spine Surgery	Abstract 9	8	2	
		<i>Yajun Liu</i>				
1210	1220	Effect Of Focused ESWT Treatment On Neuropathic Pain In Cervical Spine Radiculopathies	Abstract 10	8	2	
		<i>Tomas Nedelka</i>				
1220	1240	Shockwave Therapy Of The Heart	Keynote Lecture 4	15	5	
		<i>Wolfgang Schaden</i>				
1240	1300	Discussion				20
1300	1400	<b>LUNCH BREAK &amp; EXHIBIT VISIT</b>				
		<b>BONE I</b>				
		<i>Chairperson: Wolfgang Schaden / Jose Eid</i>				
1400	1420	Biological Mechanism Of Shockwave In Bone	Keynote Lecture 5	15	5	
		<i>Ching-Jen Wang</i>				
1420	1430	Medial Tibial Subchondral Bone Is The Key Target For Extracorporeal Shockwave Therapy In OA Rat Knee	Abstract 11	8	2	
		<i>Jai-Hong Cheng</i>				
1430	1440	3-D Reconstruction Imaging Assessment Of The Therapeutic Effect Of Radial Extracorporeal Shock Wave Therapy On Osteochondral Lesions Of The Talus	Abstract 12	8	2	
		<i>Geng-Yan Xing</i>				
1440	1450	Extracorporeal Shockwave Therapy (ESWT) In The Treatment Of Atrophic Non-Unions Of Femoral Shaft Fractures	Abstract 13	8	2	
		<i>Ching-Jen Wang</i>				
1450	1500	Reasons For Success And Failure Of ESWT In Forearm And Lower Leg Shaft Non-Unions	Abstract 14	8	2	
		<i>Frank Bätje</i>				
1500	1510	rESWT For Bone Non-Union Of Paediatric Patients	Abstract 15	8	2	
		<i>Yajun Liu</i>				
1510	1520	ESWT For Non-Healing Fractures Of The Clavicle - Still A Valid Contraindication	Abstract 16	8	2	
		<i>Frank Bätje</i>				
1520	1530	Extracorporeal Shockwave Therapy For Avascular Necrosis Of Femoral Head	Abstract 17	8	2	
		<i>Ching-Jen Wang</i>				
1530	1550	Extracorporeal Shockwave Therapy (ESWT) - First Choice Treatment Of Fracture Non-Unions?	Keynote Lecture 6	15	5	
		<i>Wolfgang Schaden</i>				
1550	1610	Discussion				20
1610	1630	<b>TEA BREAK &amp; EXHIBIT VISIT</b>				
1630	1730	<b>ISMST ANNUAL GENERAL MEETING (Venue: Colosseum II, Level 2)</b>				
1800	1815	<b>Gather at Pullman Hotel Lobby to be taken by coaches to Sarawak Cultural Village</b>				
1930	LATE	<b>SARAWAK CULTURAL EVENING</b>				

## ISMST Scientific Programme - Day 2 (Colosseum II, Level 2)

15<sup>th</sup> July 2016, Friday

PT = Presentation Time DT = Discussion Time MIN = Minute

TIME		TOPIC	ABSTRACT ID	PT (MIN)	DT (MIN)
0730	1800	<b>REGISTRATION &amp; INDUSTRIAL EXHIBITION</b>			
		<b>BONE &amp; CARTILAGE</b>			
		<i>Chairperson: Richard Thiele / Kumar Thiyagarajah</i>			
0830	0850	Extracorporeal Shockwave Therapy In Nonunion Or Delayed Osseus Union <i>Edson Serrano</i>	Keynote Lecture 7	15	5
0850	0900	Which Factors Lead To Failures In The ESWT Of Bone Healing Disorders Of The Proximal Femur? <i>Frank Bätje</i>	Abstract 18	8	2
0900	0910	Do Radial Shockwave Safely Modulate Growth At The Physis? Preliminary Short Term Outcomes In Immature Rabbits <i>Sowmya Ramesh</i>	Abstract 19	8	2
0910	0920	Extracorporeal Shock Wave Therapy In Osgood Schlatter Disease <i>Vrisha Madhuri</i>	Abstract 20	8	2
0920	0930	Treatment Of Bone Marrow Edema - A New Approach With ESWT <i>Thomas Pontasch</i>	Abstract 21	8	2
0930	0940	Shock Wave Treatment For Painful Bone Marrow Edema In Knee Osteoarthritis - A Single-Center Case Series <i>FuQiang Gao</i>	Abstract 22	8	2
0940	0950	ESWT In The Management Of Spontaneous Osteonecrosis Of The Knee (SONK): A Case Study <i>Patrick Oon Leng Goh</i>	Abstract 23	8	2
0950	1000	Adult Osteochondritis Dissecans And Focussed ESWT: A Successful Treatment Option <i>Richard Thiele</i>	Abstract 24	8	2
1000	1020	Osteogenetic Effect Of Extracorporeal Shock Waves In Human <i>Ludger Gerdesmeyer</i>	Keynote Lecture 11	15	5
1020	1040	Discussion			20
1040	1100	<b>TEA BREAK &amp; EXHIBIT VISIT</b>			
		<b>INTERACTIVE CASE DISCUSSION I - BONE</b>			
		<i>Chairperson: Wolfgang Schaden</i>			
1100	1230	<i>Vinzenz Auersperg Richard Thiele Edson Serrano Kandiah Raveendran</i>			
1230	1400	<b>LUNCH BREAK &amp; EXHIBIT VISIT</b>			
		<b>TENDON &amp; SKIN</b>			
		<i>Chairperson: Carlos Leal / Rainer Mittermayr</i>			
1400	1420	Current Knowledge On Evidence-Based Shockwave Treatments For Shoulder Pathology <i>Ludger Gerdesmeyer</i>	Keynote Lecture 9	15	5
1420	1430	Pain Reduction, Functionality And Quality Of Life Improvement After Shockwave Therapy Of Tendinitis <i>Jose Eid</i>	Abstract 25	8	2
1430	1440	Current Evidence Of Extracorporeal Shock Wave Therapy In Chronic Achilles Tendinopathy <i>Ludger Gerdesmeyer</i>	Abstract 26	8	2

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15<sup>th</sup> July 2016, Friday

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TIME		TOPIC	ABSTRACT ID	PT (MIN)	DT (MIN)
1440	1450	Lateral Epicondylitis: This Is Still A Main Indication For Extracorporeal Shockwave Therapy <i>Richard Thiele</i>	Abstract 27	8	2
1450	1500	Prospective Cohort Study Examining Short Term Changes In Pain After Application Of Extracorporeal Shockwave Therapy In 178 Consecutive Patients <i>Aston Ngai</i>	Abstract 28	8	2
1500	1520	Current Concepts Of Shockwave Therapy In Chronic Patellar Tendinopathy <i>Carlos Leal</i>	Keynote Lecture 10	15	5
1520	1540	Discussion			20
1540	1600	<b>TEA BREAK &amp; EXHIBIT VISIT</b>			
		<b>INTERACTIVE CASE DISCUSSION II - SOFT TISSUE</b>			
1600	1700	<i>Chairperson: Carlos Leal</i> <i>Ludger Gerdesmeyer</i> <i>Kenneth Craig</i> <i>Wolfgang Schaden</i> <i>Jose Eid</i>			
1700	1800	<b>ISMST INDUSTRY MEETING (By Invitation Only)</b> <b>Venue: Eiffel Room (Lobby Level)</b>			
1900	1930	<b>ISMST COCKTAILS</b>			
1930	LATE	<b>ISMST GALA DINNER &amp; DANCE</b> <b>Venue: Colosseum I (Level 2)</b>			



**ISMST Scientific Programme - Day 3** (Colosseum II, Level 2)16<sup>th</sup> July 2016, Saturday

PT = Presentation Time DT = Discussion Time MIN = Minute

TIME		TOPIC	ABSTRACT ID	PT (MIN)	DT (MIN)
0800	1100	<b>REGISTRATION &amp; INDUSTRIAL EXHIBITION</b>			
		<b>NEW APPLICATIONS AND DEVELOPMENTS</b>			
		<i>Chairperson: Kandiah Raveendran / Karin Freitag</i>			
0900	0920	Current Concepts Of Shockwave Therapy In Stress Fractures <i>Carlos Leal</i>	Keynote Lecture 8	15	5
0920	0930	Safety, Tolerability And Efficacy Of Extracorporeal Shockwave Therapy As A Novel Treatment For Intermittent Claudication: A Randomised Controlled Trial <i>Thomas Cayton</i>	Abstract 29	8	2
0930	0940	Infection In The Orthopaedic Patient, The Role Of Shockwave Treatment <i>Richard R. H. Coombs</i>	Abstract 30	8	2
0940	0950	Uterine Fibroids And Shockwaves <i>Karin Freitag</i>	Abstract 31	8	2
0950	1000	Regenerating Peripheral Nerves - Shockwave Treatment As A Supportive Mean <i>Rainer Mittermayr</i>	Abstract 32	8	2
1000	1010	ESWT In Experimental Traumatic Spinal Cord (SCI) Injury <i>Rainer Mittermayr</i>	Abstract 33	8	2
1010	1030	Discussion			20
1030	1050	<b>TEA BREAK &amp; EXHIBIT VISIT</b>			
		<b>GUEST KEYNOTE LECTURE II</b>			
1050	1120	<i>Chairperson: Kenneth Craig</i>			
		<b>Biologics And The Musculoskeletal System</b> <i>Eng-Hin Lee</i>			
		<b>ISMST LECTURE ii</b>			
1120	1150	<i>Chairperson: Jose Eid</i>			
		<b>The Impact Of Shockwave Medicine In The World's Health System. Actual Datas.</b> <i>Richard Thiele</i>			
		<b>CLOSING CEREMONY</b>			
1150	1300	<i>Kandiah Raveendran</i>			
		<b>Award Ceremony</b> <b>Closing Remarks</b> <b>Invitation To ISMST San Sebastian 2017</b>			

