Programme

17th International Phillip Zorab Symposium

One Great George Street, London
23rd - 24th June, 2022

Welcome One Great George Street

Welcome to the 17th International Phillip Zorab Symposium, at One Great George Street, London.
The British Scoliosis Research Foundation is delighted to present this instalment of the 'Zorab Symposium', which has been running since 1963. This meeting is being held in the heart of central London at One Great George Street, a stunning and historical venue, located in Westminster near the River Thames, Westminster Abbey, Palace of Westminster and Elizabeth Tower.
The International Phillip Zorab Symposia take place biannually for clinicians and scientists with an interest in scoliosis aetiology and the development of more effective treatments. Phillip Zorab was a chest physician at the Royal Brompton Hospital in London who developed an expertise in the management of severe scoliosis, and an interest in the aetiology of idiopathic scoliosis. The International Phillip Zorab Symposium lectures generate fruitful discussion among experts in the field of scoliosis and are instrumental in inspiring new research.
The faculty has been carefully curated to provide an excellent breadth and depth for the exploration of current concepts and controversies in the art of scoliosis. Thank you to our keynote speakers, many who have travelled from all around the world to be here; your time and contribution is invaluable to all of us in helping to advance our understanding of the processes and consequences of scoliosis. We also thank the British Scoliosis Society who will be hosting one session.

Programme Thursday 23rd June, 2022

Time	Session	Speaker
0800-0900	Registration - tea and coffee	
0900-0915	Welcome	Ian Nelson
0915 - 1100	Session One – Lost In Rotation – Moderator – Robert Crawford	
0915-1000	Key Note – Lost in Rotation	Stefan Parent
1000-1020	**Free Papers Session One - Lost in Rotation – Basic Science**	
1000- 1010	The ciliary pathway implication in Adolescent Idiopathic Scoliosis	Florina Moldovan
1010 - 1020	Increased dynamic stability in children with AIS	Fraje Watson
1020-1050	Observations on Bracing	Ane Simony
1050-1130	Morning tea and coffee	

Programme Thursday 23rd June, 2022

Time	Session	Speaker
1130-1300	Session Two - Controlling the Uncontrollable – Moderator – Ashley Cole	
1130-1200	Coronal Correction and the Sagittal Plane	Manuel Rigo
1200-1230	**Free Papers Session Two - Controlling the uncontrollable – Surgical Techniques**	
1200-1210	Safety and efficacy of thoracic pedicle impendance testing in surgery of the growing spine	Pat Keily
1210-1220	Should traditional growth rods be revised to MAGEC	Amir Reza Amiri
1220-1230	Rib Construct Fixation – A Valuable Adjunct for Management of Con-genital Spinal Deformity	Richard Gross
1230-1300	Prognostication of Curve Progression	Rene Castelein
1300-1400	Lunch	
1400-1530	Session Three – Noting Destroys Confidence Like Follow Up – Moderator – Ian Harding	
1400-1430	Debate – Registries – Numbers or Knowledge	Ashley Cole and Ane Simony
1430-1500	**Free Papers Session Three - Follow up and assessment**	
1430-1440	Development of a core outcome set for Adolescent Idiopathic Scoliosis (AIS): An exploration of views from a range of stakeholders	Julie McMullan
1440-1450	Optimisation and validation of thermal adherence sensors for monitoring spinal orthosis wear-time in a clinical trial	Raveen Jayasuriya
1450-1500	Double-rod vs Single rod Instrumentation for the Correction of Neuro-muscular Scoliosis (NMS)	Chadi Ali
1500-1530	A Half Century of Clinical Conundrums	Richard Gross
1530-1600	Afternoon tea and coffee	
1600-1800	Session Four – The British Scoliosis Society Presents....	
1600-1610	Welcome - British Scoliosis Society at the Philip Zorab Symposium	Peter Millner
1610-1630	Setting up Research	Ashley Cole
1630-1650	Introducing New Technology and Techniques	Vinay Jasani
1650-1710	An Extended Scope Physiotherapist's View of Scoliosis	Laura Kennison
1710-1730	Surgeons or Centres – Continuity of Care	Neil Davison and Neil Oxborrow
1730-1750	Training in Scoliosis Management	Alex Goubran
1750-1800	The Drinks are on Me	Lee Breakwell
1800- 2100	Canapés and cocktails	

Programme Friday 24th June, 2022

Time	Session	Speaker
0800-0900	Registration - tea and coffee	
0900-1030	Session Five – Size and Shape – Moderator – Jeremy Fairbank	
0900-0930	Clinical Correlates of Curve Characteristics	Ian Harding
0930-0945	The Tale of the Whale	Rene Castelein
0945-1000	Managing Aesthetics in Non Operative Treatment	Manuel Rigo
1000-1030	Push or Pull	Rob Dunn
1030-1100	Morning tea and coffee	
1100 - 1230	Session Six – Moderator – Julian Leong	
1100 - 1115	Under Tall	Ashley Cole
1115-1130	Meaningful Questions to Ask Ourselves	Ane Simony
1130-1200	The Psychological Impacts of Scoliosis	Adrian Gardner
1200-1215	Shouldering Responsibility	Rob Dunn
1215-1230	Alignment Alchemy	Ian Harding
1230-1330	Lunch	
1330-1500	Session Seven – Moderator – Jennifer Sargent	
1330-1400	**Free Papers Session Four - Complications**	
1330-1340	Treatment of Adjacent Spinal Surgical Site Infections with a biphasic antibiotic eluting osteoconductive scaffold	Aman Sharma
1340-1350	Does Maldistributed Lumbar Lordosis Lead to Mechanical Failure in Long Fusions? Lordosis Distribution Index (LDI) in Long Segment Lumbar Spine	Puneet Tailor
1350-1400	Spinal HDU-plus – a new, cost-effective and safe place for the postoperative management of high risk children undergoing scoliosis surgery	Eniola Bada
1400-1410	AIS spinal osteoblasts subjected to mechanical strain do not revert to the transcriptomic phenotype of osteoblasts at the curve apex	Matthew Newton Ede
1410-1440	My View on Progression Risks	Stefan Parent
1440-1510	Paradigm Shifts – Earlier Interventions	Rene Castelein
1510-1600	Close and Afternoon tea and coffee	Ian Nelson

Keynote Speakers

Professor René Castelein, MD, PhD

Professor René Castelein, MD, PhD, trained as a general Orthopaedic surgeon, he has always had a broad field of interest within the specialty of Orthopaedics. Throughout his professional life, however, spine surgery and pediatric orthopaedics have been foremost. During his training years, he worked as a fellow in pediatric orthopaedics and spine surgery at the Alfred I du Pont Institute of the Nemours Foundation (Head: Dr. Dean MacEwen), in Wilmington, Delaware. Also during training, he did research at the department of Anatomy in Leiden, the Netherlands, on the subject of idiopathic scoliosis. At the same time, a PhD thesis on ultrasound screening in developmental hip dysplasia was completed. After a number of years as an Orthopaedic surgeon and director of the orthopaedic training program at the Isala Clinics in Zwolle, the Netherlands, he became Professor of Orthopaedic Surgery and Chairman of the department of Orthopaedic Surgery at the University Medical Centre in Utrecht. In 2007, he was appointed by the Board of Directors as Chairman of the Surgical Division. Throughout his academic career he focused on the care of complex spine patients, as well as on teaching and research, predominantly in the field of etiology and pathogenesis of idiopathic scoliosis. He is the co-inventor of a patented, innovative spinal implant (the Spring Distraction Device, SDS) for the treatment of complex pediatric spinal deformity, that has already proven its value in patient care. His research also led him to the conviction that scoliosis primarily develops in the intervertebral disc, and that the results of early and adequate non-surgical intervention could possibly be improved.

He has been a visiting professor at many international universities, has been the president of the Nordic Spinal Deformities Society, of the International Research Society of Spinal Deformities, member and chairman of a number of SRS committees, member of the Fondation Yves Cotrel and was the vice president and the scientific secretary of the Dutch Orthopaedic Society. He was the SRS Presidential Guest Speaker and Harrington Lecturer at the SRS 2019 Annual Meeting in Montreal with the title: 'Dropping the I in AIS, what will it take?' and will be the senior fellow ('Godfather') to the SRS Traveling Fellows in 2022. He has supervised over 30 PhD Thesis and published over 200 peer reviewed papers and book chapters. His main fields of interest are the intervertebral disc, the growing spine, etiopathogenesis of idiopathic scoliosis, strategies to improve both conservative and surgical treatment.

Ashley Cole

I have been a Consultant Spinal Surgeon at the Sheffield Children's and Northern General Hospitals in Sheffield since 2003. Whilst on the BASS Executive between 2010 and launch in 2012, I co-developed the British Spine Registry with Lee Breakwell. I was the first Chair of a BOA group developing the newer Orthopaedic Registries (TORUS). Since 2005, I have been the Spinal Chair of the Orthopaedic Expert Working Group advising the NHS on spinal coding, healthcare resource groups and tariff. After being a member of the last Spinal Taskforce. I became Chair of the Spinal Services Clinical Reference Group advising NHS England on commissioning specialised spinal and spinal cord injuries. During this role, we introduced a national service specification and developed the Regional Spinal Networks. I am currently President of the British Scoliosis Society and Chief Investigator of the NIHR HTA funded Bracing Adolescent Idiopathic Scoliosis (BASIS) study, a multi-centre RCT comparing full-time versus night-time bracing.

Keynote Speakers

Stefan Parent, MD, PhD

Dr Stefan Parent, MD, PhD, is a Pediatric Orthopedic Surgeon and Full-Professor of Surgery at the University of Montreal. After completing his residency and his PhD in Biomedical Sciences simultaneously at the University of Montreal, he completed two clinical pediatric orthopedic fellowships (San Diego and Paris) and completed a post-doctoral fellowship at ENSAM in Paris. He is Head of Pediatric Orthopedic Surgery at CHU Ste-Justine. Dr Parent primarily treats scoliosis and other spinal conditions such as spondylolisthesis and vertebral fractures. On the research side he is a Principal Investigator and a Clinician-Scientist with a focus on spinal deformities. He holds several grants either as principal investigator or co-investigator in the fields of scoliosis progression, growth modulation of the spine and chest cage and in the development of animal models. Recently, Dr Parent's research team has successfully developed an animal model of growth modulation of the spine. Dr Parent has authored numerous articles and contributed to numerous textbooks in the field of spine surgery. His research has been presented at numerous national and international meetings. He often serves on the faculty of courses to teach the newest surgical techniques to other spine surgeons. He is the incoming Chair of IMAST 2023 in Dublin.

Ian Harding

Consultant Orthopaedic Surgeon North Bristol NHS Trust since 2005
Paediatric and Adult Spinal deformity including degenerative conditions of the spine. Research interests include patient outcome measures, adult deformity and spinal alignment.

Ane Simony MD, PhD

Orthopedic surgeon, with 10 years' experience in Spine surgery and deformity treatment. Finished my PhD in 2015, with the subject "25 years outcome after treatment of Adolescent Idiopathic Scoliosis with Boston Brace and Harrington Rods". Extensive experience with Nighttime Bracing of AIS patients, and Chairman of the national clinical guideline committee regarding conservative treatment of AIS in Denmark. Active in genetic research regarding the ethology of AIS in Collaboration with Karolinska Hospital in Sweden. Curtrent President of the Nordic Spinal Deformity Society.

Keynote Speakers

Professor Robert Dunn

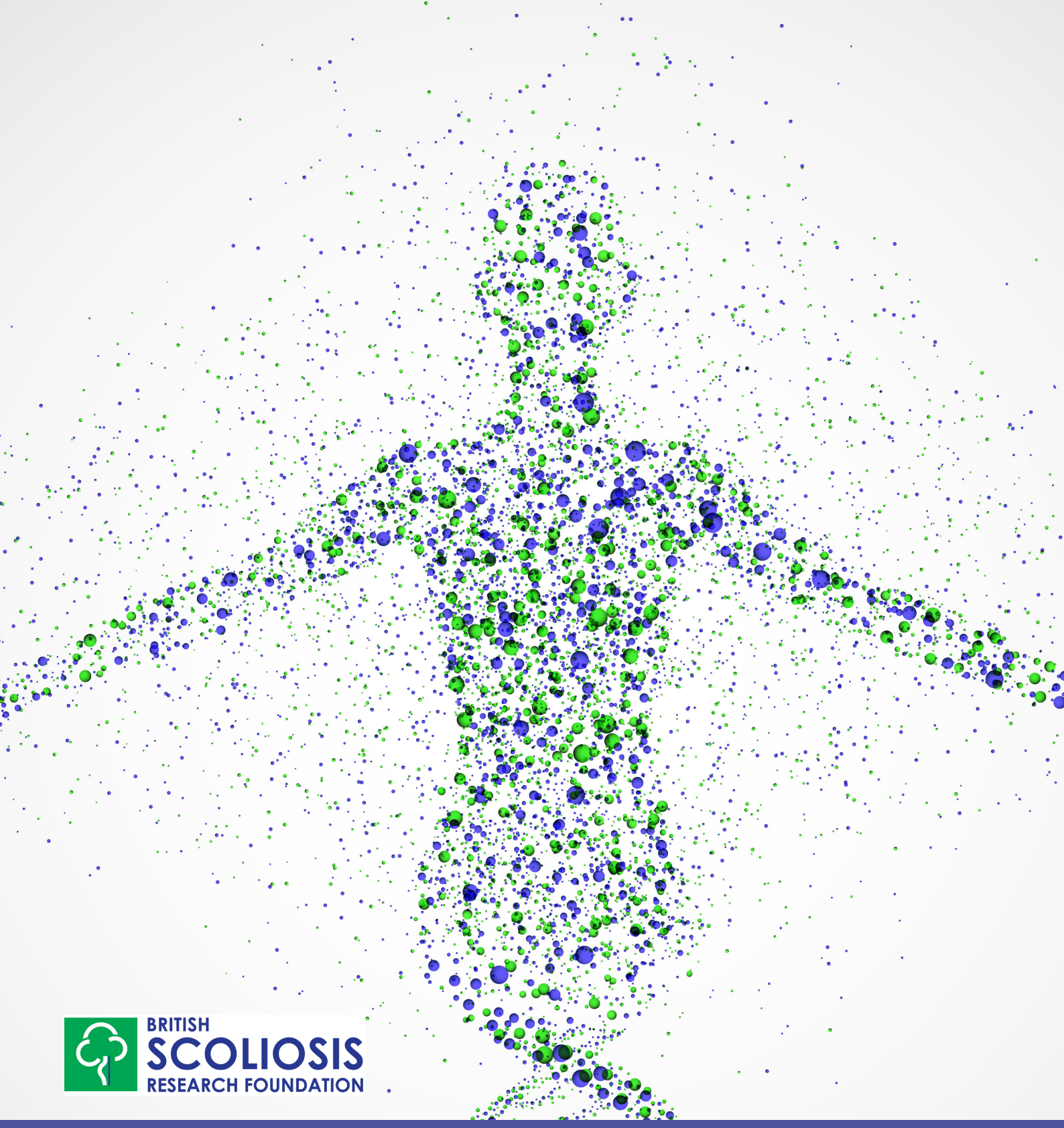
Born and bred in Cape Town, South Africa, Robert completed both his under and postgraduate studies at the University of Cape Town separated by a few years of military service as a naval doctor taking him down to Antarctica and submarine experiences. He then embarked on an 18 month spine fellowship in London, made possible by Mike Edgar at the Middlesex and Queen Square Hospitals followed by a year at RNOH Stanmore with mentors Tim Morley, Ben Taylor and Jan Lehovsky.
On return to Cape Town he established a spine service at Groote Schuur and Red Cross Children's Hospitals to deal with the overwhelming local burden of trauma, infection and deformity. In 2003 he established the Acute Spinal Cord Injury unit, a regional service which processes 180 cases per year. Based on his fellowship experience, he established a local equivalent training surgeons from all over Africa. He was an ABC fellow and is an active participant in SRS, AOspine, IGASS and local spine research and educational organisations. He has 112 peer reviewed publications on the full array of spinal pathology focusing on appropriate intervention in a resource limited community taking the best from the developed world and applying the techniques with consideration to local conditions. He has served in many leadership positions such as SA Spine President, AOSpine SA chair, College of Medicine SA constituent college of Orthopaedic Surgeons President, CMSA Treasurer, and many roles in the SA Orthopaedic Association – currently President. Since 2012 he holds the Pieter Moll and Nuffield chair of Orthopaedic Surgery as HOD where, in addition to running the department, he continues to lead the spine service with deformity as his passion believing you can't talk about it if you don't do it. UCT awarded him the Distinguished Teachers Award in 2018, competing with the entire university. In an attempt to balance this he enjoys the outdoors, having completed the Comrades and Two Oceans ultra-marathons a few times, hunts and dives.

Manuel D Rigo Caldito MD

Medical director of the 'Rigo Quera Salvá SLP', Scoliosis Rehabilitation Clinic.
Honorary Chair of the BSPTS (Barcelona Scoliosis Physical Therapy School)
Medical doctor, 1981 (UAB)
First specialty in Allergy and clinical immunology, 1985 (BCN)
Further education in scoliosis rehabilitation and orthopaedic treatment, 1989.
Teaching PSSE since 1989 (National and International courses).
Professor at the physiotherapy school Gimbernat (UAB) 1990-2017.
PhD in 2000 'Department of Radiology and Physical Medicine Universidad de Córdoba'.
Invited Professor, Bundesfachschule für Orthopädie-Technik Dortmund – BUFA, Germany since 2002, teaching Rigo-Chêneau principles.
Founder of the Barcelona Scoliosis Physical Therapy School 2009
Organizer and Chair of:

- SIRER congress in Barcelona, 1996 (President of Honour: A Nachemson)
- International Conference on Conservative Management of Spinal Deformities in Barcelona, 2004
- 2011 SOSORT meeting in Barcelona.

First President of the SOSORT 2006-8
Chair of the Educational Committee SOSORT 2006-2016
Scoliosis Journal (Scoliosis and other Spinal Disorders), Associated Editor



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W: www.bsrf.co.uk
E: info@bsrf.co.uk
T: +44 (0)20 8964 5343

BSRF, c/o Scoliosis Association UK
Unit 4, 325 Latimer Road
London, W10 6RA