



5th World Congress of Biomechanics



Scientific Organizing Committee

1. Bone Mechanics – Joint ESB

Track

Track Coordinators

Rik Huiskes

Reiner Gradinger

Session Organizers

Peter Niederer

Audrey Berthier

Lutz Claes

Georges van der Perre

Keita Ito

Marie Christine Hobatho

Harri Weinans

Ralph Mueller

Bert van Rietbergen

2 Musculoskeletal Mechanics-

Joint ISB Track

Track Coordinators

Walter Herzog

Kozaburo Hayashi

Session Organizers

Van C. Mow

Robert Sah

Lori Setton

Keita Ito

W. I. Schoellhorn

Keith Davids

Alberto E. Minetti

Frank Baaijens

Jack Winter

Dilson Rassier

Jack Winter

Ton van den Bogert

Maarten Bobbert

Savio L.Y. Woo

Richard E. Debski, Ph.D.

Steve Abramowich

V. Baltzopoulos

T. Fukunaga

3. Musculoskeletal systems and Performance-Joint ISB/ESB

Track

Track Coordinators

Mark Grabiner

Günther Rau

Georg Duda

Session Organizers

Marco Viceconti

Georg Duda

John O'Connor

Thomas P. Andriacchi

Fabio Catani

Franz van der Helm

C. Disselhorst-Klug

James Ashton Miller

Mark Grabiner

Jaap van Dieën

Hermi Hermens

Tom Oxland

V. J. Goel

Dieter Rosenbaum

Fabio Catani

M. Grazia Benedetti

Jeffrey Hausdorff

Art Kuo

4. Implants for Trauma and Orthopedics-Joint ESB Track

Track Coordinators

Erwin Steinhauser

Cheng Kung Cheng

Session Organizers

Michael Morlock

Luca Cristofolini





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Erwin Steinhauser
Mark Taylor
John Howard Newman
Po-Quang Chen
Hans-Joachim Wilke
Erich Schneider,
Roger Scholz
Lutz Claes
Jimmy Cunningham
Georg Bergmann
Antonius Rohlmann
John Fisher
Zhongmin Jin

5. Occupational and Impact Injury Biomechanics

Track Coordinators

Heiner Bubb
Yoganandan, Narayan
Brian Stemper

Session Organizers

Frank A. Pintar
Mark Scarboro
Beth Winkelstein
Dale Bass
Barclay Morrison
Susan Margulies
Karol Miller
David Meaney
Warren Hardy
Ali Elhagediab
Jeff Crandall
Cynthia Bir
Dr Ian Horsfall
King H. Yang
Jess Snedeker
M. Xuguang Wang
Kim Burton
Anne Manion
Albert King
Hans-Joachim Wilke
Mary Rodgers

Arthur Mak
Giseppe Androni
H.P. Wölfel

6. Sport Biomechanics-Joint ISB Track

Track Coordinators:

Andreas Imhoff
Benno Nigg
Erich Müller

Session Organizers

Peter Brüggemann
Joe Hamil
Steven Lorenz
Albert Gollhofer
Avela, Janne
Hermann Anetzberger
T. Nau
Hubert Hörterer
Roland Biedert
Jason Cheung
Darren Sefanshyn
Joe Hamil
Fred Yeadon
Hermann Schwameder
Th. Jöllenbeck
Erich Müller
Veit Senner
Darren Stefanyshyn
W. Nachbauer
Wolfgang Schöllhorn
Natalai Balague
Mario Lamontagne
Tom Anddriacchi
Stefan Grau
Peter Brüggermann
Tzyy-Yuang Shiang
Jochen Mester
James Wakeling
Peter Spitzenpfeil
Tetsuo Fukunaga
Vinzenc von Tscherner





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7. Dental biomechanics

Track Coordinators

Arturo Natali

Jos Vander Sloten

Session Organizers

Jos Vander

John Brunski

Christoph Bourauel

Christopher Provatidis

Michel Dalstra

Roberto Contro

John Middleton

Jan Harm Koolstra

Martin Geiger

8. Computer-Assisted Surgery

Track Coordinators

Rainer Burgkart

Lutz Nolte

Klaus Radermacher

Session Organizers

Stephen Ferguson

Florian Gerhard

Gerd Hirzinger

Robert Riener

Charles Taylor

Hans-Jakob Steiger

Gabor Szekely

9. Tissue Engineering

Track Coordinators

Axel Stemberger

Ralf Huss

Takashi Ushida

Session Organizers

Christian Oddou

Alicia el-Haj

Alan Grodzinsky

Dan Bader

James Goh

Melody Swartz

Takashi Ushida

Patrick Prendergast

10. Cellular and Molecular Mechanics

Track Coordinators

Roger Kamm

Hiroshi Wada

Session Organizers

Kazuo Tanishita

Ed Guo

Ben Fabry

Dr. Crocker

Dr. Gallet

Matt Lang

Dan Hammer

Dennis E. Discher

Andreas Bausch

Mohammad Kaazempur-Mofrad

Brian Helmke

Fred Macintosh

Denis Wirtz

Masaaki Sato

Cheng Zhu

Wendy Thomas

11. Artificial Organs

Track Coordinators

Michel Jaffrin

Heinrich Schima

Session Organizers

Jorg Vienken

Setsuo Takatani

Klaus Affeld

Cecile Legallais

Igor Sauer

Lyle Mockros

Joseph Zwischenberger

Ulrich Steinseifer

Mark Gartner

Danny Bluestein

Shmuel Einav





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12. Biomaterials

Track Coordinators

Yannis Misirlis
Birgit Glasmacher

Session Organizers

Hasan Uludag
Joerg Vienken
Elizabeth Tanner
Damien Lacroix

13. Respiratory Mechanics

Track Coordinators:

Robert C Schroter
David Elad

Session Organizers

Merryn Tawhai
Oliver E. Jensen
Don Gaver
Bela Suki
Daniel Navajas
Daniel Isabey
Ning Wang
Jason Bates
Zoltan Hantos
Dennis Doorly
Tilman Keck
Christopher M. Waters
Shigeo Wada

14. Cardiovascular Mechanics

Track Coordinators

Don Giddens
Hermann Berger

Session Organizers

Tim McGloughlin
Ender A. Finol
Jos Spaan
Motoaki Sugawara
John Lever
Nikos Stergiopoulos
Peter Hunter
Nico Westerhof

Charles A. Taylor
Francesco Migliavacca
David Steinmann
Karl Perktold
Shmuel Einav
Fumihiko Kajiya
Kristof Kaluzynski
Kenkichi Ohba
Dieter Liepsch
Kristen, Billiar
Ajit Yoganathan
Fr. Umezu
Hans-Henning Eckstein
Mort Friedman
K. Hayashi
Alexander Rachev
Gerhard Holzapfel
Takeo Matsumoto

15. Microcirculation

Track Coordinators

Dominique Barthès-Biesel
Geert W. Schmid-Schönbein

Session Organizers

J. Weiss
Axel Pries
Nadia Antonova
Qiang Zhu
S. Weinbaum
Timothy Secomb
Edward Damiano
Melody Schwartz
Brian Helmke

16. Reproductive Biomechanics

Track Coordinators

David Elad
Roger C Young

Session Organizers

Osnat Eytan
Ludwig Wildt
Christiane Pfarrer
Martin JC van Gemert





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Anthony Shmygol
Simona Socrate
Bradley B. Keller
C. Wayne Brodland
Amit Gefen
Ofar Barnea
Lisa Fauci

17. Biomechanics in Nature

Track Coordinators

Tim Pedley
Johan van Leeuwen

Session Organizers

Julian Vincent
Cam Tropea
Roland Ennos
Deane Harder
Charlie Ellington
Andy Biewener
Alan Wilson

18. Trends in Cranial and Spinal

Biomechanics

Track Coordinators

Hiroshi Ujiie
Hans-Jakob Steiger

Session Organizers

B. Lieber
David Kallmes
Z. Czosnyka
C. Bertram
N. Ward
K.-J. Langen
H. Iseki
C. Nimsy
Robert Riener
Thierry Keller
Richard Hall
Mineo Kawasaki
Hubert Gramling

19. Biotransport

Track Coordinators

John Tarbell
John Bischof
Session Organizer
Norman Harris
David Rumschitzki
Peter Weinberg
George Truskey
Yoed Rabin
Al Aksan
Oana Craciunescu
Hiroshi Ishiguro
Birgit Glasmacher

20. Biomechanics of Organs

Track Coordinators

Mark Johnson
Rich Hart
Session Organizers
J. Crawford Downs
Darryl Overby
Jeffrey Ruberti
Tony Gummer
David A. Vorp
Margot Damaser
Michael Sacks
Jiro Nagatomi
Frank Baaijen
Cheng Dong

Thread 1: Computational Methods in Biomechanics and Mechanobiology

Thread organizers:

Gerhard A. Holzapfel, gh@biomech.tu-
graz.ac.at

Prof. Tim David

Session Organizers

Dimitrije Stamenovic
Krishnan B. Chandran
David A. Vorp





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Danny Bluestein
Jim Antaki
Tim McGloughlin
James E. Moore
Gabriele Dubini
Joaquim Peiro
Pascal Verdonck
Richard E. Debski
Jeffrey A. Weiss
Jörg Schröder
Manuel Doblare
Jan Herman Kuiper
Glen L. Niebur
Phillippe K. Zysset
Jacques M. Huyghe
Aboufazel Shirazi-Adl
Adamantios Arampatzis
Gert-Peter Brüggemann
Hans Gregersen
Panos Diamantopoulos
Timothy David
Karl Grosh
Edward Givelberg

Thread 2: Flow-Structure Interactions

Thread organizers:

Chris Bertram
Ross Ethier
Charlie Ellington

Session Organizers

Dalin Tang
Ajit Yoganathan
Jay Humphrey

Danny Bluestein
Pascal Verdonck
Matthias Heil
N. A. Hill
Oliver Jensen

Thread 3: Biomechanics at Micro- and Nanoscale Levels

Thread organizer

Hiroshi Wada

Session Organizers

Kazuo Tanishita
Masaaki Sato
Takashi Ushida
Takami Yamaguchi

Thread 4: Imaging

Thread organizers

Ralph Müller
Peter Augat

Session Organizers

Peter Niederer
Pascal Laugier
Frances Sheehan
Christof Hurschler
Gadi Pelled
Melissa Knothe Tate
Krzysztof Kaluzynski
Richard Frackowiak

21.1 Electro-Impedance

Tadeusz Palko