






Sunday, 6 July 2025

 Plenary sessions will take place in Audi Max with simultaneous live streaming to rooms F3, F5 and F7.

8:00am – 5:00pm	ESB Hike Wildspitz		
9:30am – 6:00pm	Registration		
1:00pm – 3:00pm	PRE-COURSE: ARTIFICIAL INTELLIGENCE BASED SHAPE REPRESENTATION (Room E7) <i>Lecturers: Nazli Tümer, Morteza Homayounfar & Edwin Tay</i>	PRE-COURSE: AUTOMATED MODEL DISCOVERY – A HANDS-ON PROGRAMMING EXPERIENCE (Room E5) <i>Lecturers: Ellen Kuhl, Mathias Peirlinck, Skyler St. Pierre & Moritz Flaschel</i>	
1:30pm – 2:30pm	HUMAN MOVEMENT LABORATORY TOUR I Meeting point: ETH Zürich Main Hall (registration area, by the fountain)		
2:00pm – 4:00pm	BIOMECHANICS DISCOVERY TOUR FOR CHILDREN Meeting point: ETH Zürich Main Hall (registration area, by the fountain)	ZÜRICH OLD TOWN WALKING TOUR I Meeting Point: ETH Zürich Main Hall (registration area, by the fountain)	
3:00pm – 5:00pm	ZÜRICH OLD TOWN WALKING TOUR II Meeting Point: ETH Zürich Main Hall (registration area, by the fountain)		
3:30pm – 4:30pm	HUMAN MOVEMENT LABORATORY TOUR II Meeting point: ETH Zurich main entrance, (registration area, by the fountain)		
3:30pm – 5:30pm	PRE-COURSE: DEEPLABCUT FOR MEASURING ANIMAL MOTION (Room E33.5) <i>Lecturer: Mackenzie Mathis</i>	PRE-COURSE: THE HARD IN SOFT – IMAGE-BASED TISSUE MECHANICS FROM HARD TO SOFT TISSUES (Room E7) <i>Lecturers: Marta Peña Fernández, Hari Arora & Uwe Wolfram</i>	PRE-COURSE: USING THE AGENT-BASED MODELLING SOFTWARE BIODYNAMO FOR SIMULATIONS IN BIOMECHANICS (Room E5) <i>Lecturers: Roman Bauer & Vasileios Vavourakis</i>
4:30pm – 5:30pm	HUMAN MOVEMENT LABORATORY TOUR III Meeting point: ETH Zürich Main Hall (registration area, by the fountain)		
6:00pm – 7:30pm	WELCOME RECEPTION Location: ETH Zürich Main Hall		
7:45pm – 9:45pm	INTERNATIONAL WOMEN IN BIOMECHANICS MEETING Meeting point: ETH Zürich Main entrance		

Monday, 7 July 2025

Plenary sessions will take place in Audi Max with simultaneous live streaming to rooms F3, F5 and F7.

	Audi Max	E3	E5	E7	F3	F5	F7	G3	G5
7:30am – 6:30pm	Registration								
8:30am – 9:55am	1.1	2.1	3.1	4.1	5.1	6.1	7.1	8.1	9.1
	AI AND MACHINE LEARNING BIOMECHANICS I: CARDIOVASCULAR & ORGAN BIOMECHANICS <i>Chair: Alberto Redaelli, Ugo Pelissier</i>	CARDIOVASCULAR BIOMECHANICS I <i>Chairs: Umberto Morbiducci, Gil Marom</i>	CARDIOVASCULAR IMPLANTS AND DEVICES I: ENGINEERING NEXT-GENERATION ENDOVASCULAR DEVICES <i>Chairs: Richard G.P. Lopata, Dario Carbonaro</i>	BONE BIOMECHANICS I: STRUCTURE-FUNCTION <i>Chairs: Dieter Pahr, Tatiana Kochetkova</i>	SHOULDER BIOMECHANICS I: SHOULDER MUSCULATURE, KINEMATICS, AND SUBJECT SPECIFIC MODELLING <i>Chairs: Ajay Seth, Jeremy Genter</i>	3D BIOPRINTING, ADDITIVE MANUFACTURING, AND SCAFFOLDS I: COMPUTATIONAL DESIGN AND MECHANICS OF 3D PRINTED SCAFFOLDS AND SOFT MATERIALS <i>Chairs: Pasquale Vena, Edwin Tay</i>	JOINT KINEMATICS & KINETICS I: METHODOLOGY <i>Chairs: Ayman Assi, Zimi Sawacha</i>	TISSUE ENGINEERING <i>Chairs: Philipp J. Thurner, Eng Kuan Moo</i>	SOFT TISSUE BIOMECHANICS I: EXPERIMENTAL CHARACTERISATION OF SOFT TISSUES <i>Chairs: Yohan Payan, Ciara Brigit Durcan</i>
9:55am – 10:25am	Coffee break (Location: E, EO North & South foyers)								
10:25am – 12:00pm	1.2	2.2	3.2	4.2	5.2	6.2	7.2	8.2	9.2
	AI AND MACHINE LEARNING BIOMECHANICS II: AI IN REHABILITATION & HUMAN MOVEMENT <i>Chairs: Chris Awai Easthope, Scott Delp</i>	CARDIOVASCULAR BIOMECHANICS II <i>Chairs: Sónia I.S. Pinto, Denisa Martonova</i>	CARDIOVASCULAR IMPLANTS AND DEVICES II: COMPUTATIONAL HEMODYNAMICS IN STENT AND VALVE ENGINEERING <i>Chairs: Francesco Migliavacca, Alexandra Hauguel</i>	BONE BIOMECHANICS II: WHOLE BONE <i>Chairs: Harry van Lenthe, Elham Alizadeh</i>	IMPLANTS AND DEVICES I: IN VIVO / IN VITRO AND PATHWAYS TOWARDS IN SILICO <i>Chairs: Paulo Fernandes, Mattia Sisella</i>	3D BIOPRINTING, ADDITIVE MANUFACTURING, AND SCAFFOLDS II: ADVANCED SCAFFOLD FABRICATION AND BIOPRINTING STRATEGIES FOR TISSUE ENGINEERING <i>Chairs: Amir A. Zadpoor, Federica Buccino</i>	REHABILITATION ENGINEERING, EXOSKELETONS, AND ASSISTIVE DEVICES I: BRAIN-IN-THE-LOOP & EXOSKELETONS <i>Chair: Ning Lan, Daniel Baumgarter</i>	SPINE BIOMECHANICS I: INTERVERTEBRAL DISC – STRUCTURE & LOAD <i>Chairs: Joachim Wilke, Jérôme Noailly</i>	BIOMEDICAL IMAGING I: ADVANCED IMAGING TECHNIQUES <i>Chairs: Dieter Pahr, Elis Newham</i>
12:00pm – 1:00pm	Lunch break & Exhibition viewing (Location: Level E) MEET THE PI (Location: EO North & South foyers)								
12:45pm – 1:30pm	POSTER SESSION A1 (Location: Foyer E North) POSTER SESSION B1 (Location: Foyer E South) POSTER SESSION C1 (Location: Foyer EO South) POSTER SESSION D1 (Location: Foyer F)								
1:30pm – 2:15pm	KEYNOTE TALK MOLLY STEVENS: DESIGNING BIOMATERIALS FOR REGENERATIVE MEDICINE AND SOFT ROBOTICS (Location: Audi Max)  <i>Chairs: Stephen Ferguson, Michele Conti</i>								
2:25pm – 3:25pm	ESB STUDENT AWARDS (Location: Audi Max)  <i>Chairs: Dieter Pahr, Philipp J. Thurner</i>								
3:30pm – 4:00pm	Coffee break (Location: E, EO North & South foyers)								
4:00pm – 5:25pm	1.3	2.3	3.3	4.3	5.3	6.3	7.3	8.3	9.3
	MUSCULOSKELETAL BIOMECHANICS I: EXPERIMENTAL APPROACHES <i>Chair: Heath Henninger, Mélody Labrune</i>	CARDIOVASCULAR BIOMECHANICS III <i>Chairs: Estefanía Peña, Valentina Mazzi</i>	COMPUTATIONAL METHODS FOR CARDIOVASCULAR APPLICATIONS I: TISSUE MODELLING AND CHARACTERIZATION <i>Chair: Sandra Loerakker</i>	SPORTS BIOMECHANICS I: STRATEGIES FOR STRENGTH, CONTROL, AND INJURY PREVENTION <i>Chairs: Floren Colloud, Mark Sayers</i>	IMPLANTS AND DEVICES II: IN SILICO STUDIES <i>Chairs: Barbara Röhrnbauer, Edoardo Bori</i>	FRACTURE HEALING <i>Chairs: Francisco Correia Marques, Sara Checa Esteban</i>	ANIMAL BIOMECHANICS <i>Chairs: Christian Peham, Robert Baines</i>	CLINICAL AND TRANSLATIONAL BIOMECHANICS I <i>Chairs: Annegret Mündermann, Alison N. Agres</i>	OCULAR BIOMECHANICS <i>Chairs: Miguel Angel Ariza Gracia, Philippe Büchler</i>
5:30pm – 6:30pm	ESB DIVERSITY IN BIOMECHANICS (Location: Audi Max)  <i>Chairs: Esther Reina Romo, Marta Peña Fernández, Zimi Sawacha</i>								
6:45pm – 8:15pm	Networking with Swiss wine & cheese (Location: Dozentenfoyer, ETH Zurich Main Building)								
7:00pm – 10:00pm	Student Evening (Location: VSETH Building, Universitätstrasse 6, 8092 Zürich)								



Plenary sessions will take place in Audi Max with simultaneous live streaming to rooms F3, F5 and F7.

	Audi Max	E3	E5	E7	F3	F5	F7	G3	G5
8:00am – 5:00pm	Registration								
8:30am – 9:55am	1.7	2.7	3.7	4.7	5.7	6.7	7.7	8.7	9.7
	CARDIOVASCULAR BIOMECHANICS V <i>Chairs: Dominik Obrist, Alexey Kamenskii</i>	COMPUTATIONAL BIOLOGY I: COMPUTATIONAL BIOLOGY TO ADVANCE CELL BIOMECHANICS <i>Chairs: Aurélie Carlier, M^aAngeles Pérez Ansón</i>	MUSCULOSKELETAL BIOMECHANICS II: MODELLING & SIMULATIONS <i>Chairs: Saulo Martelli, Maxence Lavaill</i>	RESPIRATORY BIOMECHANICS II: MECHANICS-TO-MEDICINE: FROM CELLULAR INSIGHTS TO PREDICTIVE MODELS AND CLINICAL TRANSLATION <i>Chairs: Mona Eskandari, Sam Bayat</i>	MUSCULOSKELETAL MODELLING III: BONE & SPINE BIOMECHANICS <i>Chairs: Ruth Wilcox, Aurélie Levillain</i>	IMPLANTS AND DEVICES III: INNOVATIVE IMPLANT AND MEDICAL DEVICE DESIGN <i>Chair: Bernardo Innocenti, Martina Colombo</i>	KNEE BIOMECHANICS III: MODELLING <i>Chairs: Nico Verdonshot, Erin Teule</i>	3D BIOPRINTING, ADDITIVE MANUFACTURING, AND SCAFFOLDS IV: 3D PRINTED IMPLANTS AND FUNCTIONAL DEVICES: FROM OSSEOINTEGRATION TO BIOMECHANICAL PERFORMANCE <i>Chair: Nazli Tumer</i>	CLINICAL AND TRANSLATIONAL BIOMECHANICS II <i>Chairs: Alison Jones, Roberto Leonardo-Díaz</i>
9:55am – 10:25am	Coffee break (Locations: E, EO North & South foyers)								
10:25am – 12:00pm	1.8	2.8	3.8	4.8	5.8	6.8	7.8	8.8	9.8
	COMPUTATIONAL METHODS FOR CARDIOVASCULAR APPLICATIONS III: CFD/FSI AND ARTERIES <i>Chair: Philippe Meliga, Sjeng Quicken</i>	MECHANOBIOLOGY III: MECHANOBIOLOGY IN CANCER RESEARCH <i>Chair: Stefaan Verbruggen, Georg Duda</i>	CARDIOVASCULAR IMPLANTS AND DEVICES III: VIRTUAL TOOLS FOR VASCULAR AND EXTRACORPOREAL THERAPIES <i>Chairs: Wouter Huberts, Thibault Vervenne</i>	AI AND MACHINE LEARNING AND DEVICES V: IMAGING, SPINE AND PERSONALIZED MODELS; <i>Chairs: Lennart Scheys, Guo Lingzhong</i>	SPINE BIOMECHANICS III: SPINAL DISORDERS BIOMECHANICS <i>Chairs: Marwan El-Rich, Kati Nispel</i>	BONE BIOMECHANICS V: NANOSCALE <i>Chair: Alessandra Carriero, Ludger Keilig</i>	HIP BIOMECHANICS <i>Chairs: Sophie Williams, Anitha Praveen</i>	BIOMATERIALS <i>Chairs: Stephen Ferguson, Feihu Zhao</i>	ON ORTHOREGENERATION AWARD <i>Chairs: Marcy Zenobi-Wong, Matthias Steinwachs</i>
12:00pm – 1:10pm	Lunch break & Exhibition viewing (Locations: E, EO North & South foyers)								
1:10pm – 2:10pm	1.9	2.9	3.9	4.9	5.9	6.9	7.9	8.9	9.9
	CARDIOVASCULAR BIOMECHANICS VI <i>Chairs: Michele Conti, Karol Calò</i>	COMPUTATIONAL BIOLOGY II: COMPUTATIONAL BIOLOGY IN CANCER APPLICATIONS <i>Chair: Friederike Schulte</i>	MUSCULOSKELETAL / ORTHOPAEDIC INTERFACES <i>Chairs: Alexandre Terrier, James Warren</i>	IMPACT/INJURY BIOMECHANICS <i>Chair: Mark Robinson</i>	SPINE BIOMECHANICS IV: INTERVERTEBRAL DISC – BIOMECHANICS & DEGENERATION <i>Chairs: Nicolas Newell, Ann-Kathrin Dagmar Greiner-Perth</i>	OSTEOARTHRITIS <i>Chairs: Ilse Jonkers, Aapo Ristaniemi</i>	SKELETAL ADAPTATION <i>Chairs: Enrico Dall'Ara, Tatiana Kochetkova</i>	SHOULDER BIOMECHANICS II: GLENOHUMERAL BIOMECHANICAL MODELS AND ARTHROPLASTY <i>Chairs: Clark Dickerson, Eva C. Herbst</i>	REPRODUCTIVE, FETAL, AND NEONATAL BIOMECHANICS II: MECHANOBIOLOGY OF FEMALE REPRODUCTIVE AND PELVIC TISSUES <i>Chairs: Marco Parente, Daniel Fidalgo</i>
2:20pm – 3:05pm	KEYNOTE TALK MACKENZIE MATHIS: TOWARDS THE NEURAL BASIS OF ADAPTIVE MOTOR CONTROL (Location: Audi Max)  <i>Chairs: Ralph Müller, Sandra Loerakker</i>								
3:05pm – 3:30pm	Coffee break (Locations: E, EO North & South foyers)								
3:30pm – 4:30pm	BEST DOCTORAL THESIS & EARLY INVESTIGATOR AWARD (Location: Audi Max)  <i>Chairs: Marlene Mengoni, Dieter Pahr, Michele Conti</i> BEST DOCTORAL THESIS AWARD: FORCE-MEDIATED ANGIOGENESIS: LINKING MECHANICAL MECHANISMS TO VASCULAR LESION GROWTH <i>Apeksha Shapeti, KU Leuven, Belgium</i> EARLY INVESTIGATOR AWARD: YAP/TAZ AS MECHANOSENSORY REGULATORS OF BLOOD VESSEL FORMATION IN HEALTH AND DISEASE <i>Tommaso Ristori, Eindhoven University of Technology, the Netherlands</i>								
4:30pm – 5:15pm	Closing ceremony (Location: Audi Max)								