



SEMMELWEIS
UNIVERSITY 1769

AICER Symposium 2026

PROGRAM

October 9

9:00 – 10:00	I. Opening Plenary Session Session Chairs: Dr. Béla Merkely, Dr. András Kiss
9:00 – 9:15	Opening Remarks: Rector's welcome Dr. Béla Merkely
9:15– 9:30	AICER Introduction Dr. András Kiss
9:30– 9:45	Multimodal medical imaging in action Dr. Miklós Kozlovsky
9:45– 9:50	Introduction to the Elective Surgical Course Dr. Tamás Ruttkay / Dr. Klaudia Péch
9:50-9:55	Student tours of the day Dr. Endre Kontsek
9:55-10:00	Cooperation Agreement Signing
10:00 – 10:30	COFFEE BREAK
	Student Tours- various times throughout the day



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10:30– 12:20	II. Orthopaedics Presentations Session Chairs: Dr. Gergő Merkely, Dr. Miklós Kozlovsky
10:30 – 11:00	Keynote - Translational Orthopedics: From Discovery to Clinical Impact Dr. Gergő Merkely
11:00-11:20	Human and Robotic Balancing: Modeling, Control Strategies, and Biomimicry Dr. Gábor Stépán
11:20-11:35	No more winging it: understanding scapular motion from bench to bedside Dr. Ryan Lohre
11:35-11:50	The Future of Surgery: AI, computer-assisted navigation, and robotics in orthopaedic surgery Dr. Gábor Skaliczki
11:50-12:05	AI-assisted patient-specific decision-making in Orthopaedic surgery? Dr. Soheil - Ashkani Esfahani
12:05-12:20	Aligning Technological Innovation & Data Science Advancements With What Matters Most - Patient-Centered Outcomes Dr. David Bernstein
12:20 – 12:50	LUNCH BREAK



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12:50-14:30	III. Surgical Presentations Session Chairs: Dr. Alán Alpár, Dr. Attila Szijártó
12:50-13:05	Beyond the Textbook: The Role of Cadaveric Surgery in Surgical Training Dr. Attila Szijártó
13:05-13:20	The role of Exoscopes in Simulation and Surgical Education Dr. Armando De Virgilio
13:20-13:35	Beyond the microscope: From advanced imaging to the future of reconstructive microsurgery Dr. Dominik Walczak
13:35-13:50	What the heck is biomechanics? Kristóf Rácz
13:50-14:05	Computer-assisted surgery in the era of artificial intelligence, advanced Imaging and robotics Dr. Mariano E. Giménez
14:05-14:20	Complex liver surgery Dr. Karl J. Oldhafer
14:20-14:35	Innovation in modern cardiac surgery Dr. István Hartyánszky
14:35– 15:00	COFFEE BREAK



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15:00 – 17:00	IV. Medical Imaging Presentations Session Chairs: Dr. András Kiss, Dr. Pál Maurovich-Horvat
15:00-15:15	Presentation details to be confirmed Dr. Mikael Björnstedt
15:15-15:30	How to deal with black swans in digital pathology? Dr. Cleo-Aron Weis
15:30-15:45	The role of BSL3 risk autopsies and short post-mortem time autopsies in diagnostic pathology Dr. László Székely
15:45-16:00	Innovation as a best kept secret Dr. Zsolt Garami
16:00-16:15	Cardiac CT Imaging: Trends, Technologies, and Future Directions Dr. Pál Maurovich-Horvat
16:15-16:30	Deep Learning in Dentistry: Innovative Approaches to Dental Implant Classification and Three-Dimensional reconstruction of histological specimens Dr. Márton Kivovics
16:30-16:45	From Anatomy to Innovation: The Role of the Cadaver Lab in Interventional Cardiology Dr. Karlheinz Seidl
16:45-17:00	Cadaver-Based Surgery: New Horizons for Anatomy and Manual Skills Training in Undergraduate and Postgraduate Education Dr. Alán Alpár
Starts at 19:00	Gala Dinner on the River Diva boat



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10:00 – 11:30	I. Session Session Chairs: Dr. Tamás Bodzay
10:00-10:15	Title to be confirmed Dr. Attila Szakos
10:15-10:30	Developing and conducting standardized cadaver and simulation based curricula for the training of military and civilian surgeons Dr. Mark Bowyer
10:30-10:45	The Role of AICER in the Undergraduate and Postgraduate Medical Education/Trainig within the Orthopedic Trauma Surgery Dr. Tamás Bodzay
10:45-11:00	Simulations and clinical excellence Dr. John Armstrong
11:00-11:30	Keynote: Generative robotics Dr. Péter Galambos
11:30-12:00	COFFEE BREAK



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12:00-13:15	II. Session Session Chairs: Dr. Ferenc Bánhidý, Dr. Zoltán Klárik
12:00-12:15	From Anatomy to the Operating Room: Hands-on Training in Plastic and Reconstructive Surgery Dr. Zoltán Klárik
12:15-12:30	From Radical to Refind: The Evolution of Surgical Management in Cervical Cancer Dr. Balázs Lintner
12:30-12:45	Challenges in the primary operative treatment of ovarian cancer Dr. Andrea Rosati
12:45-13:30	LUNCH BREAK
13:30-14:45	III. Thoracic Surgery Presentations Session Chairs: Dr. Ferenc Rényi-Vámos, Dr. Áron Ghimessy
13:30-13:45	The Development of Thoracic Surgery in Hungary Dr. Péter Radeckzy
13:45-14:00	Simulation and large animal model training in thoracic surgery and lung transplantation Dr. Clemens Aigner
14:00-14:15	Evolution in minimal invasive thoracic surgery Dr. René Horsleben Petersen
14:15-14:30	Modern surgical education - special focus on robotic surgery Dr. Robert J. Cerfolio



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15:00	Presentations at AICER
15:00 - 15:15	Rector's Welcome Address Dr. Béla Merkely
15:15 - 15:25	Introduction to the Cadaver Laboratory Dr. Tamás Ruttkay
15:25 - 15:35	Translational Medicine Dr. Endre Kontsek
15:35-15:50	Innovation Trends in the USA and Hungary Dr. Gergő Merkely
16:00 - 19:00	AICER tour - Approx. 3-hour guided visit in a small-group setting and interactive professional workshops
Starts at 19:00	Closing reception at the AICER rooftop restaurant



AICER – Anatomy & Innovation Center for Education and Research
Szemmelweis University, Hungary