

7th INTERNATIONAL SYMPOSIUM ON BIOMATERIALS -

PRELIMINARY PROGRAM

May 22, 2026, LJUBLJANA, SI, UMC ORTHOPAEDIC CLINIC

9:00	OPENING 7 ISB	BOŠTJAN KOCJANČIČ chair M. JENKO, B. KOCJANČIČ
Invited opening 9:05 -9:20	<u>Drago Dolinar</u>	BIOMATERIALS IN ORTHOPAEDICS: CLINICAL CHALLENGES, FAILURES, AND FUTURE DIRECTIONS
Invited 9:20 - 9:30	<u>Monika Jenko</u> , D. Dolinar, B. Kocjančič, M. Ovsenik, Č. Oblak, M. Debeljak	UNDERSTANDING AND CONTROLLING THE BONE-IMPLANT INTERFACE: THE KEY TO NEXT-GENERATION ORTHOPAEDIC/DENTAL BIOMATERIALS
Invited 9:30-9:45	B. Korenjak, A.Romolo, A. Molnar, A. Iglič, A. Svete Nemeč, V.Erjavec, G.Schlosser <u>Veronika Kralj-Iglič</u>	PARAMETERS OF BLOOD AND PLASMA IN DOGS WITH BRACHICEPHALIC OBSTRUCTIVE RESPIRATORY SYNDROME AND HEALTHY DOGS. A STUDY OF 284 CASES
Plenary lecture 9:45-10:15	<u>Mojca Debeljak</u>	ADVANCED POLYMER MATERIALS IN DENTISTRY AND REHABILITATION: INNOVATION OR CLINICAL RISK?
Invited 10:10-10:25	<u>Boštjan Kocjančič</u>	OXIDIZED Zr-2.5Nb ALLOY IN ORTHOPAEDICS: A CLINICAL CASE STUDY
Invited 10:25-10:40	<u>Andrej Trampuž</u>	EVOLUTION OF MICROBE-MATERIAL INTERACTION IN IMPLANTED MEDICAL DEVICES
Invited 10:40-10:55	<u>Špela Kocjančič</u>	MECHANISMS OF SURFACE DEGRADATION AND THROMBOTIC DEPOSITION IN ECMO SYSTEMS
10:55-11:25	COFFEE BREAK	
		M.DEBELJAK B.KOCJANČIČ
Invited 11:25-11:45	<u>Matjaž Godec</u>	BIODEGRADABLE METALLIC MATERIALS FOR MEDICAL APPLICATIONS
Invited 11:45-12:00	<u>Igor Belič</u>	THE SONIC RESONANCE OF FEMORAL PART OF HIP ENDOPROSTHESIS – MEASUREMENTS OF DYNAMIC FORCES IN INTERFACIAL LAYER
12:00-12:15	Carlo Dotitno	WHY 3D PRINTING IS BECOMING SO IMPORTANT FOR CERTAIN ORTHOPAEDIC APPLICATIONS
12:15-12:30	Carlo Dottino	THE PROCESS TO DEVELOP CUSTOM MADE IMPLANTS FROM THE CT-SCAN ACQUISITION TO THE SURGERY TOGETHER WITH POSSIBLE FUTURE ENHANCEMENTS (ES. AI IMPLEMENTATION)
12:30-12:40	<u>Klemen Avsec</u> , M.Jenko, B.Kocjančič, D.Dolinar	GRIT BLASTING AS A POSSIBLE CAUSE OF IMPLANT FAILURE
Invited 12: 40-13:00	Alessandro Mazzola, G. Zocco, A. Russo - video	TREATMENT OPTIONS FOR CONCENTRIC GLENOHUMERAL OSTEOARTHRITIS
13:00- 14:00	LUNCH	

		B. MAVČIČ
Invited 14:00-14:20	<u>Aleš Iglič</u> , E.Gongadze, V.Kralj-Iglič	ATTRACTIVE INTERACTIONS BETWEEN LIKE-CHARGED MEMBRANE SURFACES
Invited 14:20 14:40	<u>John Grant</u>	X-RAY PHOTOELECTRON SPECTROSCOPY (XPS) STUDIES OF HUMAN TEETH
Invited 14:40-15:00	<u>Mirjam Bajt Leban</u> , A.Legat, T. Kosec, M. Finšgar, J. Kovač,A. Kocijan, M. Conradi, Ita Junkar	MICROSTRUCTURE AND SURFACE ENGINEERING EFFECTS ON CORROSION BEHAVIOUR AND BIOCOMPATIBILITY OF TI-6AL-4V ALLOYS IN SIMULATED PHYSIOLOGICAL ENVIRONMENTS
Invited 14:55-15:05	<u>Luka Pesjak</u> , M. Kolar, M. Drobnič	SUBTALAR ARTHROEREISIS IN TRAUMATIC ADULT-ACQUIRED FLATFOOT DEFORMITY. A
Invited 15:05-15:20	<u>Blaž Mavčič</u> , R. Vojković, A.Merčun, D. Martinčič	THE OUTCOMES OF SURGICAL TREATMENT OF DISTAL FEMORAL PERIPROSTHETIC FRACTURES WITH MEGAENDOPROSTHESES
Invited 15:20-15:30	<u>Rok Vojković</u> , B. Pompe	PREOPERATIVE PLANNING OF REVISION TOTAL HIP ARTHROPLASTY WITH A 3D PRINTED HEMIPELVIS MODEL IN JUVENILE IDIOPATHIC ARTHRITIS
15:30-15:45	<u>Armand Dominik Škapin</u> , M.Vodičar, K.Bošnjak J.Leban, Ž. Mesarič, Lovro Suhodolčan	VANCOMICYN POWDER AS PREVENTION OF POSTOPERATIVE INFECTION IN SPINAL FUSION
Invited 15:45-16:15	M.E. Pronsato, G. Brizuela, R. Ambrusi, <u>Alfredo Juan</u> , J.M. Marchetti video	FIRST-PRINCIPLES DFT STUDY OF OLEIC ACID ADSORPTION ON CaO (100): IMPLICATIONS FOR BIOMATERIAL-CATALYST INTERFACES AND SURFACE STABILITY

	POSTER SESSION	
P1	<u>Jasna Majstorović</u> , Monika Jenko, Maja Ovsenik, Mojca Debeljak	EVALUATION OF THE RELEASE OF BISPHENOLS AND MICROPLASTICS FROM POLYMERIC MATERIALS IN HEALTH CARE
P2	Janko Novak, Darja Dobnik	CLINICAL USE OF BLOOD FLOW RESTRICTION TRAINING (BFRT) AFTER ORTHOPAEDIC INTERVENTIONS

16:20 17:00	YOUNG SURGEONS	ŠPELA TADEL- KOCJANČIČ
16:20-16:30	<u>Igor Potparić</u> , M.Kolar, B.Kocjančič, D.Dolinar	METALLOSIS DUE TO PREMATURE THA LINER FAILURE, A CASE PRESENTATION
16:30-16:40	Matic Kolar, <u>I. Potparić</u> , F. V. Veselinov, B. Pompe	3D PRINTED PELVIC MODEL FOR COMPLEX REVISION HIP ARTHROPLASTY. A CASE REPORT
16:40-16:50	<u>Armand Dominik Škapin</u> J.Vodičar, M.Supej, M.Vodičar	RESULTS OF BIOMECHANICAL GAIT ANALYSIS IN ADULT SPINE DEFORMITY
16:50-17:00	<u>Luka Pesjak</u> , D.Dolinar	CERAMIC-ON-CERAMIC HIP RESURFACING: A PROMISING ALTERNATIVE TO METAL-ON-METAL BEARINGS

17:00 18:10	YOUNG RESEARCHERS	STUDENTS - ŠPELA TADEL- KOCJANČIČ
17:00-17:10	<u>Ema Kocjančič</u> , M.Rojko	TREATMENT OF SEVERE AORTIC STENOSIS: A COMPARISON BETWEEN TRANSCATHETER (TAVI) AND SURGICAL (SAVR) APPROACH

17:10-17:20	<u>Nina Knoll</u> , A.Jazbec	ENDOVASCULAR COOLING CATHETER USE IN POST-CARDIAC ARREST PATIENT
17:20-17:30	<u>Žiga Kristijan Žigon</u> , Š.Tadel Kocjančič	USE OF AN IMPLANTABLE CARDIOVERTER DEFIBRILLATOR AS A SECONDARY PREVENTION AFTER CARDIAC ARREST
17:30-17:40	<u>Aleksandra Kostić</u> , Š.Tadel Kocjančič	INTRAAORTIC BALLOON COUNTERPULSATION IN PATIENT WITH THREE-VESSEL CORONARY DISEASE
17:40-17:50	<u>Tadej Mavčič</u> , B.Pompe, B.Kocjančič	CEMENTED VS. UNCEMENTED FIXATION IN TOTAL KNEE ARTHROPLASTY
17:50-18:00	M.Kolar, <u>Filip Bratkič</u> , B.Kocjančič	MEDIAL CONGRUENT LINERS IN TOTAL KNEE ARTHROPLASTY. PRELIMINARY RESULTS OF IMPLANT SURVIVAL
18:00-18:10	<u>Miha Remec</u> , M.Jenko, R.Podlipec, B.Kocjančič, D.Dolinar	SURFACE ROUGHNESS-DRIVEN REGULATION OF BMSC ADHESION ON ADDITIVELY MANUFACTURED Ti6Al4V FEMORAL COMPONENTS
18:10-18:20	<u>Luka Pilič Turk</u> , B.Pompe, B. Kocjančič	DAC® BIOABSORBABLE HYDROGEL COATING: AN EMERGING BIOMATERIAL STRATEGY AGAINST ORTHOPAEDIC IMPLANT-RELATED INFECTIONS

	DENTAL MEDICINE	DENTAL MEDICINE
		Č OBLAK, M. OVSENIK
Plenary lecture 9:00 - 9:30	Rok Schara	MRI AND MRS DIAGNOSTIC TECHNOLOGY IN PERIODONTOLOGY
Invited 9:30 - 9.50	Čedomir Oblak	MATERIALS IN PROSTHODONTICS – ANYTHING NEW?
Invited 9:50 – 10:10	Maja Ovsenik	SURFACE CHEMISTRY AND BIOCOMPATIBILITY OF DIGITALLY MANUFACTURED RAPID MAXILLARY EXPANDERS AFTER CLINICAL USE
Plenary 10:10-10:30	Mojca Kržan, L.Kolenc	TECHNOLOGY OF CELL CULTURE MEDIUM
Invited 10:30-10:50	Mojca Trost , B.Gašpirc	TREATMENT OF PERIODONTITIS ASSISTED BY FOTOACUSTIC STREAMING
10:50 -11:30	COFFE BREAK	
		R. SCHARA, R. OVSENIK
Invited 11:30-11:50	Anja Frantar	THERMOSENSITIVE POLOXAMER GEL AS A PROSPECTIVE STRATEGY FOR TARGET PHAGE THERAPY IN PERI-IMPLANTITIS
Invited 11:50 – 12:10	Urška Romih, R.Schara	TECHNOLOGY OF IPRF IN DENTYSTRY
Invited 12:10-12:30	<u>Krunoslav Pavlovič</u> , <u>I.Sajovic</u> , R.Schara, B.Gašpirc	INTEREXAMINER REALIBITY OF PERIODONTAL PROBING DEPTH MEASUREMENT IN EPIDIMIOLOGICAL CALIBRATION
Invited 12:30 -12:50	Sonja Žarković Gjurin	EVALUATION OF ZIRCONIA DENTAL IMPLANT STABILITY: METHODS AND CLINICAL PERSPECTIVES
13:00 14.00	LUNCH	
		B.GAŠPIRC, R.OVSENIK
Invited 14:00-14:20	Bojana Krneta Đokić	THREE DIMENSIONAL ASSESSMENT OF JAW MORPHOLOGY IN DECIDUOUS DENTITION
Invited 14:20-14:40	Leja Birk	TECHNOLOGY IN CLASS II FACIAL EVALUATION
Invited 14:40 -15:00	Rok Ovsenik	ULTRASONOGRAPHY OF THE TONGUE POSTURE IN GROWING CHILDREN
	Bine Devjak, R.Schara	The ASSESMENT TOBATTCO POUCH KERATOSISI
Invited 15:20-15:40	Lea Kolenc, M.Kržan, M.Jenko, Č.Oblak	BIOCOMPATIBILITY OF OCCLUSAL SPLINTS AND CLEAR ALIGNERS
Invited 15:40 -16:00	Olja Kolenc, R.Ovsenik, R.Schara	THREE-DIMENSIONAL ASSESSMENT OF PAPILLA DURING ORTHODONTIC TREATMENT
16:00 -16:20	Jan Oblak, M.Jenko, M.Ovsenik	EVALUATION OF THERMOMECHANICAL PROPERTIES OF POLYMERIC BIOMATERIALS FOR CLEAR ORTHODONTIC ALIGNERS
	POSTER SESSION	L. BIRK, B. KRNETA ĐOKIĆ
P1	Nace Lužnik, R.Ovsenik	SURFACE CHEMISTRY AND BIOCOMPATIBILITY OF RAPID MAXILLARY EXPANDERS AFTER EIGHT MONTHS OF TREATMENT.
P2	Nace Lužnik, Rok Ovsenik	TECHNOLOGY IN THE ASSESMENT OF UPPER CANINE IMPACTION.
P3	Nace Lužnik, Rok Ovsenik	INTERDISCIPLINARY TREATMENT OF IMPACTED UPPER INCISOR – TECHNOLOGY AND DIAGNOSTICS.

P4	Žiga Ostir, L.Kosec	THE IMPACT OF PERIOPERATIVE HYPOTHERMIA ON SURGICAL SITE INFECTION.
P5	Eva Kračun, <u>Leja Birk</u> , Maja Ovsenik	ADVANCES IN POLYMER MATERIALS FOR CLEAR ALIGNER THERAPY: A LITERATURE REVIEW