

ENGINEERING MECHANICS 2024

30th INTERNATIONAL CONFERENCE

MAY 14 – 16, 2024, MILOVY, CZECH REPUBLIC



PROGRAMME OF THE CONFERENCE

**Institute of Solid Mechanics, Mechatronics and Biomechanics,
Faculty of Mechanical Engineering, Brno University of Technology**

**Institute of Thermomechanics,
Academy of Sciences of the Czech Republic, v.v.i. – branch Brno**

**Institute of Theoretical and Applied Mechanics,
Academy of Sciences of the Czech Republic, v.v.i.**

ŽďAS, a. s., Žďár nad Sázavou

IFTToMM Member Committee of Czech Republic

Czech Society for Mechanics

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CONTACT ADDRESS OF THE ENGINEERING MECHANICS 2024

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Conference EM2024 is hosted by the OREA Resort Devět Skal, Milovy

Address:
OREA Resort Devět Skal
Sněžné - Milovy 11
592 02 Svatka
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Hotel reception and Registration Desk:
Tel.: +420 566 585 111
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www.resortdevetskal.cz

1. GENERAL INFORMATION

ACCOMMODATION

The accommodation of the participants is reserved in the **OREA Resort Devět Skal** (see map in the chapter 5.). Please contact kindly the reception of the hotel immediately after your arrival. For information regarding other **hotel services** (swimming pool, etc.), please contact hotel reception.

BADGES

The participants are kindly requested to **wear their badges during the conference** to be admitted to scientific sessions, meals, transportation and other services.

BOARDING

Boarding is provided for participants in the hotel restaurant, **starting with Tuesday dinner and ending by the breakfast on Thursday**. Breakfasts are served from 7:00, lunches and dinners are scheduled according to the conference programme. The meal costs are included in the conference fee. The visible conference badge is a sign for the staff to serve you.

CONFERENCE REGISTRATION

The **Registration corner of the EM2024 Conference** is located in front of the Conference Hall (on the 2nd floor) of the hotel Devět Skal. It is open from 13:00 to 18:30 on Tuesday (14th May) and from 8:30 to 16:00 on Wednesday (15th May).

INSURANCE

The Conference Committee is not responsible for the health problems of the participants nor for losses. The visitors from abroad are recommended to take out insurance in the country of their origin.

INTERNET SERVICES

Wi-Fi coverage of the entire hotel is ensured during the conference.

REFRESHMENT

Coffee, tea and cookies are available during the Coffee Breaks for all conference participants. Outside these breaks, snacks can be purchased at the hotel bar (11:00 – 23:00). For other possibilities, please contact the staff of the hotel.

TRANSPORTATION

- A special bus to Milovy will be leaving **Žďár nad Sázavou (bus station in front of the railway station)** at 12:45 on Tuesday 14 May, 2024.
- A special bus to **Žďár nad Sázavou (bus & railway station)** will be leaving hotel Devět Skal approximately at 9:30 on Thursday 16 May, 2024.

2. *SCIENTIFIC INFORMATION*

The **30th International Conference ENGINEERING MECHANICS 2024** continues in the tradition of the fruitful meetings which have been held in Svratka for many decades.

The Scientific Committee reviewed and chose **75 papers** for the presentation (57 lectures and 18 posters) including **2 invited keynote lectures**, which will be heard on Tuesday and Wednesday. All accepted papers are published in **Conference Proceedings “Engineering Mechanics 2024”**. The proceedings will be also published on-line on www.engmech.cz.

OFFICIAL LANGUAGE

The official languages of the conference are **Czech, Slovak and English**. No simultaneous translation is provided. All presentations/posters must be written in English.

LECTURES

The conference includes the **Keynote lectures** (plenary session) and parallel sessions in the conference facilities located on the 2nd floor of the Devět skal hotel. The plenary sessions will take place in the main lecture hall (**Conference Hall**), the **parallel sections** in three smaller lounges (**Lecture Hall I – III**) that are accessible from the Conference Hall.

The presentation of a **keynote lecture lasts 40 minutes** while that one of a **normal lecture 15 minutes** including the discussion. **The Chairmen of scientific sessions are responsible for keeping the timetable**. The presenting authors are kindly asked to **contact their PC Service** at least 10 minutes before starting of the session and **to check functionality of their presentation**.

The data projector with PC is available in all Lecture Halls as a standard. No other facilities will be provided, unless the speaker employs its own device – please contact the PC Service in that Lecture Hall.

POSTER SESSION

The area for the poster session is reserved in the back of the Conference Hall from Tuesday afternoon. For every paper announced for the poster session, a particular panel of ca. 0.9 x 1.2 m (width x height) is assigned and labelled by the number and title of the poster. The fixing material will be available at the place and at the Registration Desk.

The authors of the posters exhibited at the Conference can register at the Registration Desk to the **competition for the Prize of the Managing Director of the ŽDAS**. The only condition for participation is the personal presence of the author at the Award Ceremony.

The **Special Poster Committee** – under chairmanship of Mr. Radek Vlček, MSc., technical director of the ŽDAS company – will conclude the assessment of the posters exhibited on **Wednesday (11:15 – 11:45)**. The winners of the competition will be announced and awarded on **Wednesday evening at 19:00** before the Group Photo and Conference Dinner.

The authors are kindly asked to **dismount their posters by Wednesday evening**.

VARIATIONS

The **Scientific Committee is entitled to vary the conference programme** if necessary for scientific or technical reasons. If a speaker is missing in the planned time the next speakers take the order and the break after that particular session will be longer.

LIST OF SECTIONS

Section	Abbreviation	Lecture Hall
Keynote Lectures	<i>KEY I and II</i>	Conference Hall
Poster Session	<i>POS</i>	
Dynamics + Kinematics	<i>DYN I and II</i>	Lecture Hall I
Technological Processes	<i>TEC</i>	
Mechatronics	<i>MCT</i>	
Mechanics of Solids	<i>SOL</i>	Lecture Hall II
Thermomechanics	<i>TER</i>	
Fluid Mechanics	<i>FLU I and II</i>	
Biomechanics	<i>BIO</i>	Lecture Hall III
Reliability of Structures	<i>REL</i>	

3. CONFERENCE TIMETABLE

<i>T u e s d a y – 14th May 2024</i>				
13:00 – 18:30	R e g i s t r a t i o n – in front of the Conference Hall			
	Conference Hall			
15:15 – 15:30	O p e n i n g C e r e m o n y			
15:30 – 16:10	<i>KEY I</i> – Keynote lectures			
16:10 – 16:30	C o f f e e B r e a k			
	Conference Hall	Lecture Hall I	Lecture Hall II	Lecture Hall III
16:30 – 19:00		<i>DYN I</i>	<i>SOL TER</i>	<i>BIO</i>
19:00 – 20:20	D i n n e r – Restaurant			

<i>W e d n e s d a y – 15th May 2024</i>				
8:30 – 16:00	R e g i s t r a t i o n – in front of the Conference Hall			
	Conference Hall	Lecture Hall I	Lecture Hall II	Lecture Hall III
9:00 – 9:40	<i>KEY II</i>			
9:45 – 11:15		<i>DYN II</i>	<i>FLU I</i>	<i>REL</i>
11:15 – 11:45	C o f f e e B r e a k & P o s t e r S e s s i o n (see below)			
	Conference Hall	Lecture Hall I	Lecture Hall II	Lecture Hall III
11:15 – 11:45	<i>POS</i>			
12:00 – 14:00	L u n c h – Restaurant			
	Conference Hall	Lecture Hall I	Lecture Hall II	Lecture Hall III
14:00 – 15:15		<i>TEC MCT</i>	<i>FLU II</i>	
15:15 – 15:45	C o f f e e B r e a k			
15:45 – 19:00	F r e e t i m e			
	Conference Hall			
19:00 – 19:15	Award of the Prize of the Technical Director of ŽĎAS			
19:15 – 19:20	Group photo in front of the OREA Hotel Devět Skal			
19:20 – 24:00	C o n f e r e n c e D i n n e r – Restaurant			

4. DETAILED PROGRAMME

4.1. Conference Hall

Tuesday – 14th May 2024 – Conference Hall

15:15 – 15:30	<i>Opening Ceremony – Plenary session</i>	
	<i>Keynote lectures – Plenary session</i>	(KEY I)
	Chairman: J. Petruška	
15:30 – 16:10	Sant Z.: <i>QUO VADO BIOMECHANICS</i>	24
16:10 – 16:30	<i>Coffee Break</i>	

Wednesday – 15th May 2024 – Conference Hall

	<i>Keynote lectures – Plenary session</i>	(KEY II)
	Chairman: J. Petruška	
9:00 – 9:40	Hajžman M., Bulín R., Byrtus M., Dyk Š., Polach P., Rendl J., Smolík L.: <i>DYNAMICS OF ROTATING SYSTEMS FOCUSED ON INDUSTRIAL APPLICATIONS</i>	18

4.1.1. Poster session (POS)

Wednesday – 15th May 2024 – Conference Hall

11:15 – 11:45	<p>Note:</p> <p>All of the entered posters exhibited at the Conference will be accepted into the competition for the Prize of the Managing Director of the ŽDAS Company. The special committee – under chairmanship of Ing. Radek Vlček, technical director of the ŽDAS company.</p>	
BIO	Gzik-Zroska B., Jozsko K., Stradomski G., Piątek A., Wolański W., Kawlewska E.: <i>ASSESSMENT OF MECHANICAL PROPERTIES OF TITANIUM SAMPLES, MANUFACTURED WITH THE USE OF ADDITIVE TECHNOLOGIES</i>	102
BIO	Thomková B., Hrubanová A., Košková O., Richtrová M., Skácel P., Štourač P., Marcián P.: <i>EXPERIMENTAL ASSESMENT OF THE MECHANICAL BEHAVIOR OF IMPRESSION MATERIAL FOR ANAESTHESIOLOGY USE: A PRELIMINARY STUDY</i>	298

BIO	Thomková B., Borák L., Podešva P., Podešva M., Joukal M., Marcián P.: INFLUENCE OF DENTAL IMPLANT INSERTION DEPTH ON STRAIN IN PERIIMPLANT BONE TISSUE	302
DYN	Čečrdle J., Vích O., Stárek J., Vlach J., Kolář M., Šmíd M.: NEW DESIGN AND UPGRADE OF WHIRL FLUTTER AEROELASTIC DEMONSTRATOR	66
DYN	Pavlenko M. V.: DEGREE OF SUSCEPTIBILITY OF THE GAS-BEARING COAL MASSIF TO CHANGES UNDER VIBRATION AND TECHNICAL SOLUTIONS FOR INCREASING METHANE EXTRACTION FROM THE RESERVOIR	234
FLU	Balážová R., Ferrari S., Hlinka J., Santus A.: TURBULENCE ESTIMATION BY EDDY DISSIPATION RATE AT LOW-ALTITUDES USING UAV IN-SITU DATA	42
FLU	Pařez J., Vampola T.: PREDICTION OF NON-STATIONARY DEFORMATION OF GAS TURBINE USING MACHINE LEARNING APPROACH COUPLING BETWEEN CFD AND FEM MODEL	226
KIN	Hroncová D., Delyová I., Sivák P., Prada E.: MANIPULATOR TRAJECTORY AND WORKSPACE IN THE MATLAB AND MSC ADAMS ENVIRONMENTS	130
MCT	Miková L., Šarga P., Vagaš M., Prada E., Brada L.: MODELING OF A QUARTER-CAR MODEL PASSING AN OBSTACLE USING LAPLACE TRANSFORMS, MATLAB/SIMULINK AND SIMSCAPE	202
MCT	Vechet S., Krejsa J., Chen K. S.: AI BASED ASSISTIVE MAINTENANCE OF MACHINES VIA QUERIX EXPERT-SYSTEM	310
SOL	Jančář R., Dluhoš J., Fridrichová K.: INFLUENCE OF SIMPLIFYING THE GEOMETRY OF THE FE MODEL OF THE VEHICLE FRONTAL FULL BARRIER CRASH TEST	146
SOL	Kovář J., Fuis V.: INFLUENCE OF BERKOVICH INDENTER TILT ON THE PROJECTED CONTACT AREA AT NANOINDENTATION TEST	166
SOL	Ondrášek J.: DESIGN OF AN INDEXING GEARBOX WITH RADIAL CAMS	218
SOL	Rackovský D. M., Czako A.: INFLUENCE OF SINE-SHAPED PROFILE DEVIATIONS ON STATIC TRANSMISSION ERROR	246
SOL	Wdowiak-Postulak A., Świt G., Krampikowska A.: PREFABRICATED SYSTEM FOR STRENGTHENING FULL-SIZE WOODEN GIRDERS USING PRE-STRESSED FIBER-REINFORCED POLYMERS AND STEEL – BENDING SHEAR TESTS	318
TEC	Mrkos J., Horký P., Formánek M.: RECONSTRUCTION OF DUO ROLLING MILL	206
TER	Chudý D., Jegla Z.: PERSPECTIVE WAYS OF HEAT TRANSFER ENHANCEMENT FOR HEAT EXCHANGERS IN FOULING CONDITIONS	74
TER	Zabloudil J., Jegla Z., Daxner J., Babička Fialová D., Freisleben V., Reppich M.: CONSTRUCTION OF A MODULAR DEVICE FOR TESTING HIGHTEMPERATURE FLUE-GAS FOULING IN WASTE-HEAT SOURCES	322

4.2. Lecture Hall I

Tuesday – 14th May 2024 – Lecture Hall I

16:30 – 18:45	Dynamics and Kinematics Chairmen: M. Hajžman, P. Polach	(DYN I)
16:30	Hračov S., Macháček M.: GALLOPING OF INSULATED BUNDLED OVERHEAD LINE SIMPLIFIED ANALYSIS	126
16:45	Macháček M., Hračov S.: GALLOPING OF INSULATED BUNDLED OVERHEAD LINE - NONLINEAR NUMERICAL ANALYSIS IN TIME DOMAIN	190
17:00	Isoz M., Gruber P., Ježek O., Kubičková L., Gabriel D., Kaufman J., Brajer J.: USING FINITE VOLUME METHOD TO SIMULATE LASER SHOCK PEENING OF 7050 AL ALLOY	142
17:15	Dohnal J., Šebík M.: BATTERY CRASH SIMULATION IN ANSYS LS-DYNA	86
17:30	Polach P., Smolík L., Byrtus M., Hajžman M.: INVESTIGATION OF THE EFFECT OF SURFACE TEXTURING IN HYDRODYNAMIC SLIDING CONTACTS	242
17:45	Fischer C., Náprstek J.: SOLUTION METHODS FOR AN AEROELASTIC PROBLEM WITH COMBINED HARMONIC AND STOCHASTIC EXCITATION	98
18:00	Bayer J.: APPLYING A TWO DEGREE OF FREEDOM MODEL FOR DRIVE-BY IDENTIFICATION	46
18:15	Byrtus R.: CGA-BASED SNAKE ROBOT CONTROL MODEL	54
18:30	Kumar Y.: FREE AXISYMMETRIC VIBRATION OF ELASTICALLY RESTRAINED POROUS ANNULAR PLATE USING HAAR WAVELETS	178
18:45 – 20:20	D i n n e r – Restaurant	

Wednesday – 15th May 2024 – Lecture Hall I

9:45 – 11:15	<i>Dynamics</i> Chairmen: M. Sokol, J. Dupal	<i>(DYN II)</i>
9:45	Marton M., Sokol M., Lamperová K.: <i>STRUCTURAL DAMAGE DETECTION BY PSO METHOD</i>	194
10:00	Kałaczyński T., Łukasiewicz M., Liss M., Mazurkiewicz A.: <i>VIBRATION DIAGNOSTICS IN THE ASSESSMENT OF THE VEHICLES BODYWORK TECHNICAL STATE PROCEDURE</i>	150
10:15	Sokol M., Crespo-Sanchez S., Rodríguez-Paz M., Mazáčková K., Gogová Z.: <i>DAMAGE IDENTIFICATION OF SMALL HOUSES IN DIFFERENT SEISMIC REGIONS</i>	278
10:30	Dupal J.: <i>PROBABILITY LIMITS OF THE CRITICAL ROTOR SPEEDS</i>	94
10:45	Sosna P., Hadaš Z.: <i>DEVELOPMENT AND VERIFICATION OF NOVEL DUAL PLUNGER HYBRID KINETIC ENERGY HARVESTER</i>	286
11:00	Rohan E., Naili S.: <i>ELASTODYNAMICS IN PERIODIC MEDIA – APPROXIMATION BY HIGHER ORDER HOMOGENIZATION AND METAMATERIALS WITH RESONATORS</i>	258
11:15 – 11:45	<i>Coffee Break & Poster Session</i>	
12:00 – 14:00	<i>L u n c h – Restaurant</i>	
14:00 – 15:15	<i>Technological Processes</i> <i>Mechatronics</i> Chairmen: S. Věchet, Z. Hadaš	<i>(TEC)</i> <i>(MCT)</i>
14:00	Houfek M., Šimáček F.: <i>STRESS-STRAIN ANALYSIS OF THE EFZ-22 SAND FILTER PRESSURE VESSEL</i>	122
14:15	Holesovský F., Hejna M.: <i>TEMPERATURE FIELD EVALUATION USING INJECTION MOLD THERMAL INSERTS</i>	118
14:30	Červenka M., Košťál R.: <i>THERMAL MANAGEMENT FOR MISSION CRITICAL AIRCRAFT EQUIPMENT</i>	70
14:45	Krejša J., Vechet S., Šnajder J.: <i>MOTION ANALYSIS OF CZECH SIGN LANGUAGE ALPHABET CNN BASED CLASSIFIER VIA OPTICAL FLOW</i>	170
15:00	Slabý V., Bajer J., Hadaš Z.: <i>QCONCEPT OF SMART CYMBAL STRUCTURE FOR STRUCTURAL HEALTH MONITORING APPLICATIONS</i>	262
15:15 – 16:15	<i>Coffee Break</i>	

4.3. Lecture Hall II

Tuesday – 14th May 2024 – Lecture Hall II		
16:30 – 18:30	<i>Mechanics of Solids</i> <i>Thermomechanics</i> Chairmen: V. Vacek, J. Němeček	(SOL) (TER)
16:30	Cimrman R.: <i>WEAK IMPOSITION OF POTENTIAL DIRICHLET BOUNDARY CONDITIONS IN PIEZOELASTICITY: NUMERICAL STUDY</i>	78
16:45	Němeček J., Němečková J., Němeček J.: <i>MICRO-SCALE CREEP OF CEMENTITIOUS MATERIALS</i>	214
17:00	Hrstka M., Bajer J., Hadaš Z., Sharif Khodaei Z., Aliabadi F., Kotoul M.: <i>MODELLING OF LEADING EDGE MORPHING BY USING GEOMETRICALLY EXACT BEAM THEORY</i>	134
17:15	Lukeš V., Rohan E.: <i>EFFICIENT COMPUTATIONAL ALGORITHM FOR SOLVING TWO-SCALE PROBLEMS OF LARGE DEFORMING HETEROGENEOUS PERIODIC STRUCTURES</i>	186
17:30	Komlev V., Machacek J.: <i>DESIGN OF CABLE-NETS FOR GLASS FAÇADES</i>	162
17:45	Blacha Ľ.: <i>B-SPLINE BASED DENSITY ESTIMATION OF FATIGUE FAILURES IN SLM 18NI300 STEEL</i>	50
18:00	Čada Z., Černák M.: <i>STRUCTURAL OPTIMIZATION USING BIOLOGICAL GROWTH METHOD IN ANSYS MECHANICAL, PART I and II</i>	58
18:15	Daxner J., Jegla Z., Zabloudil J., Babička Fialová D., Reppich M.: <i>DESIGN OF A DEVICE FOR MEASURING THE RATE OF PARTICULATE FOULING OF HEAT TRANSFER SURFACES</i>	82
18:30	Vacek V., Petrášek Š., Horvath J.: <i>DESIGN STUDY OF COOLING FOR FORWARD-TYPE DETECTORS UNDER INCREASED LUMINOSITY EXPECTED AT THE FUTURE LHC OPERATING CONDITIONS</i>	306
18:45	Panfilov I. A., Aizikovitch S. M., Vasiliev A. S.: <i>ELASTOPLASTIC MODELS FOR INTERPRETING INDENTATION RESULTS</i>	222
19:00 – 20:20	<i>D i n n e r – Restaurant</i>	

Wednesday – 15th May 2024 – Lecture Hall II

9:45 – 11:15	<i>Fluid Mechanics</i> (FLU I) Chairmen: D. Duda, M. Isoz
9:45	Šnábl P., Procházka P., Uruba V., Pešek L.: INVESTIGATION OF 3D FLOW STRUCTURES IN A LINEAR BLADE CASCADE WITH STEREO PARTICLE IMAGE VELOCIMETRY 270
10:00	Duda D., Uruba V., Yanovych V., Klimko M., Tomášková T., Jeřábek M., Žitek P., Milčák P.: PIV MEASUREMENT OF WAKES PAST STATOR WHEEL INSIDE AIR TEST TURBINE VT-400 IN TWO AXIAL×TANGENTIAL PLANES 90
10:15	Khýr M., Plachá M., Hlavatý T., Isoz M.: DATA-DRIVEN APPROACH TO ESTIMATING SOOT DISTRIBUTION INSIDE CATALYTIC FILTERS IN AUTOMOTIVE EXHAUST GAS AFTERTREATMENT 154
10:30	Hlavatý T., Isoz M.: ON DIFFUSION, REACTION, AND FLOW OF HIGHCONCENTRATION MULTICOMPONENT GAS MIXTURES 114
10:45	Ledvinková B., Hračov S., Macháček M.: LES SIMULATIONS OF AIRFLOW AROUND RECTANGLE WITH SIDE RATIO 2:1 AND THEIR COMPARISON WITH EXPERIMENTS 182
11:00	Havran E.: ANALYTICAL INVESTIGATION OF MARS DRONE CONCEPTUAL DESIGN 110
11:15 – 11:45	<i>Coffee Break & Poster Session</i>
12:00 – 14:00	<i>L u n c h – Restaurant</i>
14:00 – 15:15	<i>Fluid Mechanics</i> (FLU II) Chairmen: M. Isoz, D. Duda
14:00	Ples M., Wolański W., Sobkowiak M.: ENHANCING MEDICAL INSIGHTS THROUGH COMPUTATIONAL FLUID DYNAMICS: VALIDATING SIMULATION MODEL FOR BLOOD FLOW IN VASCULAR SYSTEM 238
14:15	Kubíčková L., Isoz M.: REYNOLDS-AVERAGED SIMULATION OF TURBULENT FLOWS WITH IMMERSED BOUNDARIES 174
14:30	Studeník O., Kotouč Šourek M., Isoz M., Kočí P.: PARALLELIZATION OF DEM SOLVER FOR NON-SPHERICAL SOLIDS: A PATHWAY TO SCALABLE CFD-DEM SIMULATIONS 290
14:45	Zeman R., Rudolf P.: OPTIMIZING VENTURI NOZZLE DESIGN FOR ENHANCED CAVITATION AND PRESSURE DYNAMICS: A COMPARATIVE ANALYSIS OF TURBULENCE MODELS FOR CAVITATING FLOW CHARACTERIZATION 326
15:00	Kolář D.: DYNAMIC PROPERTIES OF PRESSURE COMPENSATED PUMP 158
15:15 – 15:45	<i>Coffee Break</i>

4.4. Lecture Hall III

Tuesday – 14th May 2024 – Lecture Hall III

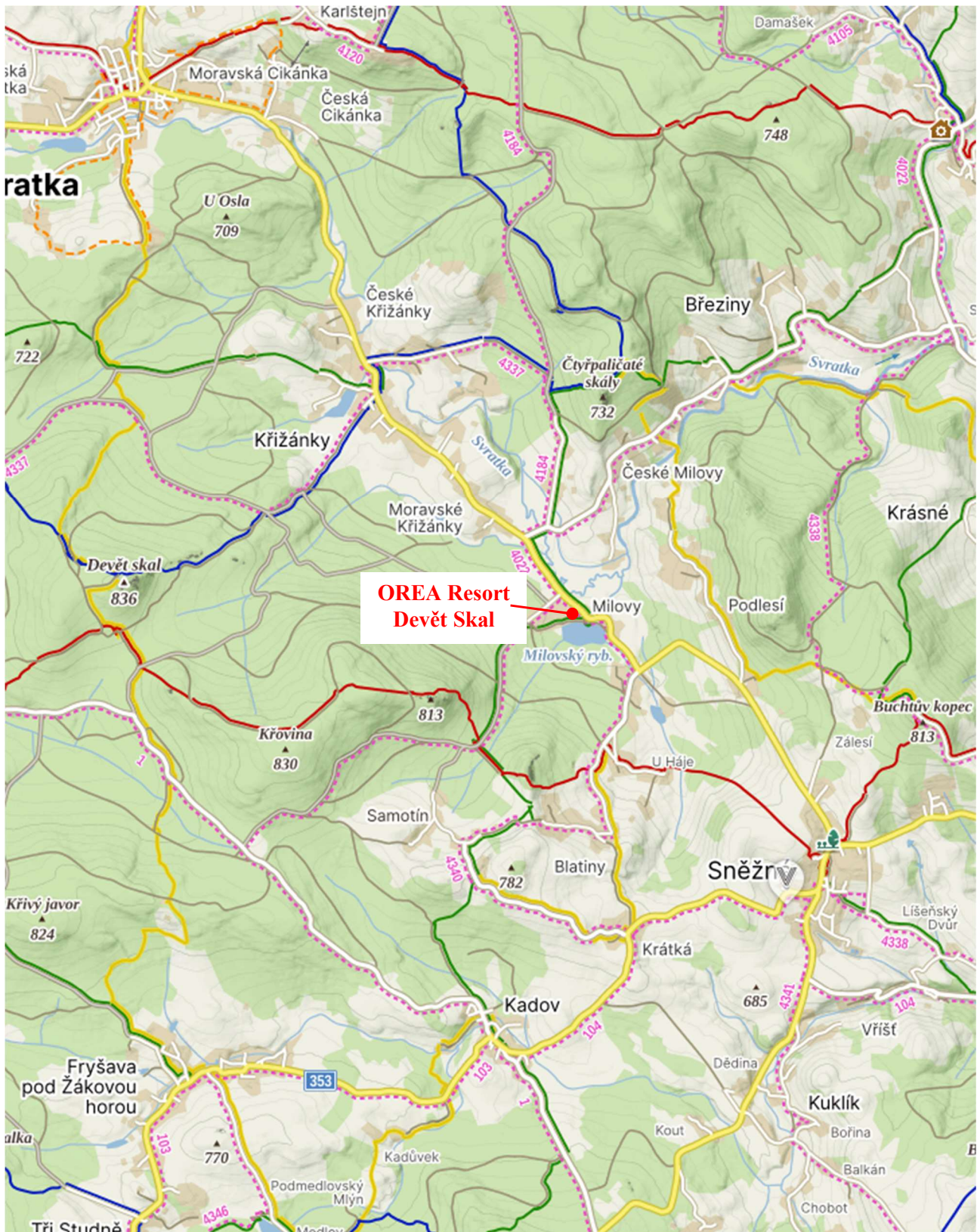
16:30 – 18:30	Biomechanics Chairmen: Z. Sant, M. Pásek	(BIO)
16:30	Abramczyk I., Ligaj B.: <i>INFLUENCE OF THE ETCHING TIME OF Ti6AL4V TITANIUM ALLOY WITH SELECTED ACID SOLUTIONS ON CHANGES IN PHYSICAL PARAMETERS OF THE ELEMENT</i>	38
16:45	Pásek M., Bébarová M., Christé G.: <i>ROLE OF SUBMEMBRANE SPACES IN THE CONTROL OF TRANSMEMBRANE ION FLUX AND CELLULAR INOTROPIC STATE IN A MODEL OF HUMAN VENTRICULAR CARDIOMYOCYTE</i>	230
17:00	Radolf V., Horáček J., Košina J.: <i>EXPERIMENTAL INVESTIGATION OF FLUID-STRUCTURE-ACOUSTIC COUPLINGS BY STUDYING THE RESONANCE PROPERTIES OF VOCAL TRACT MODELS WITH YIELDING WALLS</i>	250
17:15	Hájek P., Horáček J., Švec J. G.: <i>AUGMENTED M5 GEOMETRY OF HUMAN VOCAL FOLD IN PHONATORY POSITION – PILOT RESULTS</i>	106
17:30	Hrubanová A., Thomková B., Košková O., Richtrová M., Borák L., Štourač P., Marcián P.: <i>IMPACT OF DIFFERENT DISINFECTION SOLUTIONS ON MECHANICAL PROPERTIES OF ORTHODONTIC IMPRESS SILICONE MATERIAL</i>	138
17:45	Sochor O., Hrubanová A., Joukal M., Burša J.: <i>INFLUENCE OF ARTERY UNFOLDMENT ON ITS MECHANICAL RESPONSE</i>	274
18:00	Votava T., Marcián P., Borák L., Fuis V., Zikmund T., Kaiser J., Wolff J.: <i>APPARENT YOUNG'S MODULUS OF HUMAN CRANIAL CANCELLOUS BONE</i>	314
18:15	Raziyan M. S., Janusas G.: <i>ENHANCING SENSITIVITY IN PIEZOELECTRIC MICRO CANTILEVER DESIGNS USING STRESS CONCENTRATION REGIONS FOR LABEL FREE DETECTION</i>	254
18:45 – 20:20	D i n n e r – Restaurant	

Wednesday – 15th May 2024 – Lecture Hall III

9:45 – 11:15	<i>Reliability of Structures</i> <i>(REL)</i> Chairmen: D. Novák, J. Petruška
9:45	Michálková A., Jegla Z., Krišpín J., Gross A., Reppich M.: <i>ASPECTS OF ADAPTATION OF FLANGE JOINTS FOR MODERN LOW-CARBON ENERGETICS</i> 198
10:00	Slowik O., Šomodíková M., Novák D.: <i>NON-LINEAR PROBABILISTIC ASSESSMENT OF EXISTING BRIDGE CONSIDERING DETERIORATION</i> 266
10:15	Šorm F.: <i>ACOUSTIC EMISSION METHODS IN STEEL BRIDGE DEGRADATION IDENTIFICATION AND MONITORING</i> 282
11:15 – 11:45	<i>Coffee Break & Poster Session</i>

5. Map

Conference Hotel - OREA Resort Devět Skal Vysočina, Milovy



source: www.mapy.cz