



INTERNATIONAL CONFERENCE ON MATERIALS corrosion, heat treatment, testing and tribology, 2021

MTECH 2021

October 6-9, 2021, Šibenik, Croatia

ORGANISED BY

Croatian Society for materials protection–HDZaMa
Croatian Society for Materials and Tribology – HDMT
Croatian Center for Nondestructive Testing – CENI

Croatian Society for Heat Treatment and Surface Engineering – HDTOIP



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TOPICS:

Materials and processes, Materials characterization, Nanomaterials and nanotechnology, Metallurgy, Friction, wear and lubrication, Coatings, Advanced surface modification and coating technologies, Vacuum heat treatment, Heat treating equipment, Quenchants and quenching technology, Mathematical modelling and process simulation of heat treatment, Corrosion, Corrosion protection methods, Corrosion resistant materials, Non-destructive testing and evaluation, In-service inspection, Certification and accreditation, Measurement and quality assurance.

Conference Chairman

Izv. prof. dr. sc. Ivan Stojanović

VENUE AND DATE:

MTECH International Conference (EFC [Event No. 471](#)) will be held at **AMADRIA PARK Convention Center Šibenik**, from **6-9 October 2021**.



AMADRIA PARK Convention Center is located in the Solaris resort in Šibenik, which is 55 km from Split Airport and 85 km from Zadar Airport.

To book preferential accommodation the conference participants are kindly asked to follow link on mtech-conf.hr under “Venue & Accomodation” using promo code MTECH21 (deadline till 15th Sept 2021.)

CONFERENCE VENUE ADDRESS:

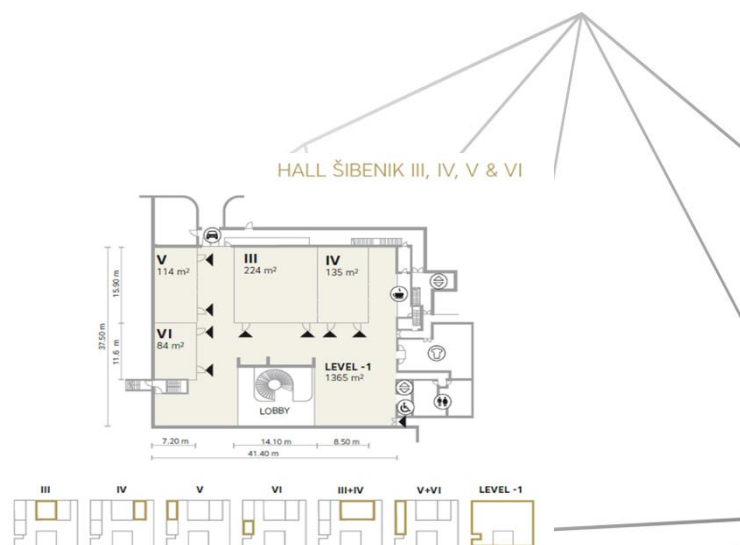
<https://www.amadriapark.com/convention-centre-sibenik/>

Adress: Hoteli Solaris 86, 22000, Šibenik, Croatia

Telephone: +385 22 361 001

Email: info@amadriapark.com

Airport distance: Šibenik – Split airport 55 km



CONFERENCE HALLS:

Halls meeting rooms and lobbys in Convention Center will be used for the purpose of the conference:

- Hall Šibenik III – Opening ceremony, Invited and comercial lectures, Workshops, Lectures
- Hall Šibenik IV - Lectures, Workshops
- Hall Šibenik V – Exhibition, Poster section
- Šibenik Lobby (lLevel -1) - Coffee breaks



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PROGRAMME OVERVIEW

DAY 1 - WEDNESDAY 06.10.2021.

13.00 h	Workshops mtech-conf.hr	Amadria Park Convention Centre Šibenik HALLS Šibenik 3 & 4
21.00 h	WELCOME RECEPTION for Conference participants	Hotel Ivan Lobby Amadria Park Šibenik

DAY 2 - THURSDAY 07.10.2021.

8.30-9.00 h	REGISTRATION DESK	Amadria Park Convention Centre Šibenik
9.00-9.15 h	OPENING CEREMONY	HALL Šibenik 3
9.15-10.45 h	INVITED & COMMERCIAL LECTURES	HALL Šibenik 3
10.45-11.15 h	COFFEE BREAK	Šibenik Lobby (Level -1)
11.15-13.00 h	LECTURES	HALLS Šibenik 3 & 4
13.00-14.15 h	LUNCH BREAK	
14.15-16.00 h	LECTURES	HALLS Šibenik 3 & 4
9.00-16.00 h	EXHIBITION	HALL Šibenik 5
18.00 h	Social Event	

DAY 3 - FRIDAY 08.10.2021.

9.00-10.30 h	INVITED & COMMERCIAL LECTURES	HALL Šibenik 3
10.30-11.00 h	COFFEE BREAK	Šibenik Lobby (Level -1)
11.00-12.45 h	LECTURES	HALLS Šibenik 3 & 4
12.45-14.00 h	LUNCH BREAK	
14.00-15.30 h	LECTURES	HALLS Šibenik 3 & 4
15.30-16.00 h	COFFEE BREAK	Šibenik Lobby (Level -1)
16.00-17.00 h	POSTER SESSION	HALL Šibenik V
9.00-17.00 h	EXHIBITION	HALL Šibenik V
19.00 h	GALA DINNER	Dalmatian Ethno Village at Amadria Park Šibenik

DAY 4 - SATURDAY 09.10.2021.

approx. 9h	EXCURSION TO KRKA NATIONAL PARK	Departure from Hotel reception
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PROGRAMME

DAY 1 - THURSDAY 07.10.2021.

TIME / EVENT / LOCATION		
8.30-9.00 h	REGISTRATION DESK	Amadria Park Convention Centre Šibenik
9.00-9.15 h	OPENING CEREMONY	HALL Šibenik 3
9.15-10.45 h	INVITED & COMMERCIAL LECTURES	HALL Šibenik 3
CHAIRMEN: dr. sc. Ivan Stojanović , dr. sc. Božidar Matijević		
INVITED LECTURE: Dr. Claus Qvist Jessen : STAINLESS STEEL SELECTION AND APPLICATION		
INVITED LECTURE: Dr. Imre Felde : QUANTITATIVE CHARACTERIZATION OF ORGANIC QUENCHANT'S HEAT TRANSFER BY USING FIREWORKS ALGORITHM		
COMMERCIAL LECTURES: Trokutttest d.o.o. / Sig Sistemi d.o.o.		
10.45-11.15 h	COFFEE BREAK	Šibenik Lobby (Level -1)
11.15-13.00 h	LECTURES	HALLS Šibenik III & IV
HALL Šibenik III		
CHAIRMEN: dr. sc. Vinko Šimunović , dr. sc. Marin Kurtela		
Reza Javaherdashti, Arezoo Assarian: BIOFOULING OF REVERSE OSMOSIS MEMBRANES IN A PETROCHEMICAL COMPLEX – PROPOSED METHODS TO CONTROL AND PREVENTION AND POSSIBILITY OF APPLICATION OF ANTI-MICROBIAL SUBSTRATES		
Goran Rozing, Vesna Alar, Goran Heffer, Ivan Vidaković: CORROSION PROCESSES AND DAMAGE CAUSED BY CORROSION IN THE PROCESS INDUSTRY		
Katarina Vranešić, Vesna Alar, Marijana Serdar, Stjepan Lakušić: CORROSION AND STRAY CURRENT INFLUENCE ON RAILS IN URBAN TRACKS		
Ksenija Tešić, Ana Baričević, Marijana Serdar: CORROSION MONITORING OF REINFORCED CONCRETE USING GROUND PENETRATING RADAR		
Božidar Matijević, Sanja Martinez: CORROSION RESISTANCE OF DIFFERENT SURFACE COATINGS EXAMINATED BY NOVEL MEASUREMENT TECHNIQUE		
Vinko Šimunović, Ivan Stojanović, Boris A. Mikšić, Ivana Radić Boršić: CORROSION PROTECTION OF BRASS WITH VAPOUR PHASE CORROSION INHIBITORS		
HALL Šibenik IV		
CHAIRMEN: dr. sc. Božidar Matijević , dr. sc. Darko Landek		
Tonča Čaleta Prolić, Božidar Matijević, Izabela Martinez: THE INFLUENCE OF THE NEW TYPE QUENCH ADDITIVE TO COOLING PROPERTIES		
Darko Landek, Ivan Hren: INFLUENCE OF PREVIOUS HEAT TREATMENT ON PROPERTIES OF TOOL STEEL K490 MC NITRATED IN PLASMA		
Filip Žanetić, Božidar Matijević: BORIDING LOW-ALLOY C45 STEEL WITH SUBSEQUENT DIFFUSION ANNEALING		
Josip Cerovečki, Darko Landek: INCREASING WEAR RESISTANCE OF BEARING SURFACES USING PACVD COATINGS		
Ivica Kladarić, Andrijana Milinović, Slavica Kladarić, Aleksandar Bašić: DILATOMETRIC TESTING OF STEEL		
Ivana Bunjan, Krešimir Grilec: INFLUENCE OF HEAT TREATMENT OF PRECURSORS ON STRUCTURE OF ALUMINIUM FOAMS		



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DAY 1 – THURSDAY 07.10.2021.

TIME / EVENT / LOCATION		
13.00-14.15 h	LUNCH BREAK	
14.15-16.00 h	LECTURES	HALLS Šibenik III & IV
HALL Šibenik III		
CHAIRMEN: dr. sc. Ivan Juraga , dr. sc. Ivan Stojanović		
Krešimir Kekez, Tea Antolović, Stjepan Pavliša: CATHODIC PROTECTION OF PILE CAPS ON PELJEŠAC BRIDGE - PRELIMINARY RESULTS		
Ante Milić, Ivan Stojanović: CORROSION PROTECTION OF PELJEŠAC BRIDGE STEEL SEGMENTS BY PROTECTIVE COATINGS		
Ivana Lipošćak, Ana Baričević, Marijana Serdar, Dubravka Bjegović, Ivana Banjad Pećur, Boris Mikšić: PELJEŠAC BRIDGE - INFLUENCE OF MIGRATORY CORROSION INHIBITORS ON SERVICE LIFE OF THE REINFORCED CONCRETE ELEMENTS EXPOSED TO THE MARINE ENVIRONMENT		
Bojan Hudec, Sanja Martinez, Karla Ribičić, Ivana Šoić: QUANTITATIVE COATING QUALITY RATING ON DOCKED OFFSHORE JACKETED PLATFORM DURING 1.5 YEARS AFTER RENEWAL		
Krešimir Kekez, Hrvoje Goreta, Zvonimir Štefanović: OVERVIEW AND IMPROVEMENTS AFTER DIAGNOSTICS OF CATHODIC PROTECTION SYSTEM OVER GROUP OF GAS PLATFORMS		
HALL Šibenik IV		
CHAIRMEN: Dino Anlar , Klaudio Gržanić		
SECTION by HELIOS HRVATSKA		
COMMERCIAL LECTURE: Helios Hrvatska d.o.o.		
Dino Anlar: INTRODUCTION - KANSAI HELIOS PAINT GROUP		
Dino Anlar: ANTICORROSIVE PROTECTION OF INFRASTRUCTURE FACILITIES		
Dino Anlar: HIGH-HEAT RESISTANT SYSTEM AND CORROSION UNDER INSULATION		
Klaudio Gržanić: PASSIVE FIREPROOF PROTECTION WITH COATINGS		
9.00-16.00 h	EXHIBITION	HALL Šibenik V
18.00 h	Social Event	



INTERNATIONAL CONFERENCE ON MATERIALS corrosion, heat treatment, testing and tribology, 2021

DAY 2 – FRIDAY 08.10.2021.

TIME / EVENT / LOCATION		
9.00-10.30 h	INVITED & COMMERCIAL LECTURES	HALL Šibenik III
CHAIRMEN: dr. sc. Alar Željko , dr. sc. Damir Markučić		
INVITED LECTURE 3		
INVITED LECTURE 4		
COMMERCIAL LECTURE: IDEF d.o.o.		
10.30-11.00 h	COFFEE BREAK	Šibenik Lobby (Level -1)
11.00-12.45 h	LECTURES	HALL Šibenik III & IV
HALL Šibenik III		
CHAIRMEN: dr. sc. Ivan Stojanović , dr. sc. Vinko Šimunović		
Damir Bobinac, Christian Verbrugghe: ADVANCED ZINC TECHNOLOGY FOR EXTENDING THE LIFETIME OF METALLIC ASSETS		
Mirko Jakopčić, Ivan Leutar: TEST REQUIREMENTS AND METHODS OF COATINGS FOR WEAPONS AND MILITARY EQUIPMENT PROTECTION		
Marina Samardžija, Gordana Bilić, Vesna Alar, Frankica Kapor: PHOSPHATE COATINGS MODIFIED WITH A GREEN OLIVE LEAF EXTRACT FOR CORROSION RESISTANCE ON FE-MN ALLOY		
Dino Anlar: HIGH PERFORMANCE POLYUREA COATINGS		
Lara Janković, Ivan Cindrić, Ivan Stojanović, Vesna Alar, Vinko Šimunović, Marin Kurtela, Ivan Juraga, Daniela Rakela - Risteovski: WATERBORNE COATING PROTECTION PROPERTIES DRIED WITH NOVEL AND TRADITIONAL DRYING TECHNIQUES		
Anna Poropat, Ivan Stojanović: COMPARISON OF TWO TYPES OF POWDER COATING FOR ELECTROSTATIC APPLICATION		
HALL Šibenik IV		
CHAIRMEN: dr. sc. Damir Markučić , dr. sc. Ivica Garašić		
Ralph Giese, Fritz Hörauf: OVERVIEW OF STANDARDS ON INDUSTRIAL RADIOGRAPHIC TESTING		
Domagoj Kojundžić, Nikša Krnić, Ivan Samardžić: WELDABILITY OF NICKEL AND NICKEL-BASED ALLOYS		
Ivica Garašić, Zoran Kožuh, Andrea Zaninović, Maja Jurica: AN OVERVIEW OF STANDARDS AND TEST METHODS FOR DETERMINATION OF RESIDUAL STRESSES IN WELDED STRUCTURES		
Josip Mioč: INFLUENCE OF PWHT ON WELD JOINT PROPERTIES OF CREEP RESISTANT STEELS		
Marko Katić, Marko Horvatek: COMPLIANT MECHANISM FOR HIGH PRECISION POSITIONING – A REVIEW		
Miroslav Omelić, Aleksandar Dragojević: INSPECTION OF THIN-WALLED WELDED JOINTS BY ADVANCED UT TECHNIQUES		
12.45-14.00 h	LUNCH BREAK	



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DAY 2 – FRIDAY 08.10.2021.

TIME / EVENT / LOCATION

14.00-15.30 h

LECTURES

HALL Šibenik III & IV

HALL Šibenik III

CHAIRMEN: dr. sc. **Zdenka Keran**, dr. sc. **Vesna Alar**

Zdenka Keran, Ivan Stojanović, Amalija Horvatić Novak, Biserka Runje, Andrej Razumić: STATISTICAL ANALYSIS OF RESULTS IN THE PROCESS OF DETERMINATION OF THE INFLUENCE OF DEFORMATION DEGREE ON CORROSION RESISTANCE

Lea Lokas, Vesna Alar: EFFECT OF TEMPERATURE ON CORROSION BEHAVIOUR OF AA6060 IN SEEWATER AND BRACKISH WATER UNDER THE FLOW CONDITION

Ivan Stojanović, Vinko Šimunović, Marin Kurtela, Niki Radiković: CORROSION RESISTANCE OF 5XXX ALUMINIUM ALLOY PROCESSED BY WIRE AND ARC ADDITIVE MANUFACTURING (WAAM)

Damir Ciglar, Morana Mihaljević, Miroslav Omelić, Miho Klaić: IMPACTS OF SURFACE MACHINING ON ULTRASONIC RESPONSE

Martin Bilušić, Biserka Runje: USE OF OPTICAL THREE-DIMENSIONAL (3D) MEASURING SYSTEMS IN ARCHEOLOGY

HALL Šibenik IV

CHAIRMEN: dr. sc. **Željko Alar**, dr. sc. **Suzana Jakovljević**

Nenad Drvar, Zdravko Schauerl, Amir Šećerkadić, Anamarija Rogina, Amir Čatić, Marko Knez: INFLUENCE OF 3D PRINTING PROCESS ON MECHANICAL PROPERTIES OF BIODEGRADABLE POLYMERS

Tomislav Roderger, Danko Čorić: APPLICATION OF CALCIUM CARBONATE FOR FOAMING ALUMINIUM FOAMS

Dražen Mezdić, Suzana Jakovljević, Hrvoje Skenderović: EXPERIMENTAL STUDY OF ADHESION PROPERTIES OF TIN COATING ON TI-6AL-4V ALLOY

Daniel Pustički, Željko Alar: LONG-TERM STABILITY OF THE FORCE TRANSFER STANDARD

Hossein Parsania, M.R.M. Aliha: MIXED MODE I+ II CRACK GROWTH ANALYSIS FOR BONE-CEMENT BIOMATERIAL INTERFACE SYSTEM

15.30 - 16.00 h

COFFEE BREAK

Šibenik Lobby (Level -1)

16.00 - 17.00 h

POSTER SESSION

HALL Šibenik V

Maria Grozdanić, Morana Mihaljević: PROFICIENCY TESTING OF ULTRASONIC THICKNESS MEASUREMENT OF SPECIMENS WITH DIFFERENT GEOMETRIES AND SURFACE STATES

Dalibor Viderščak, Zdravko Schauerl, Sanja Šolić, Amir Čatić: THE INFLUENCE OF PROCESS PARAMETERS ON MICROSTRUCTURE AND MECHANICAL PROPERTIES OF A 3D PRINTED COMMERCIAL Co-Cr DENTAL ALLOY

Sanja Šolić, Natalija Dolić, Vlado Tropša: INFLUENCE OF THE ANNEALING TEMPERATURE ON THE MICROSTRUCTURE AND HARDNESS OF SLM ALSI10MG PARTS

Nikolina Berić, Josip Stojić, Luka Papić, Ante Marušić: INFLUENCE AGING TEMPERATURE ON TENSILE STRENGTH AND ELONGATION ALUMINIUM ALLOYS 6060 AND 6005 A

Zoran Marković, Dragan Krzman, Mirko Antelj: APPLICATION OF OPEN-HOLE TYPE VERTICAL ANODE BEDS IN OIL AND GAS PRODUCTION FACILITIES WITH A HIGH CONCENTRATION OF BURIED UNDERGROUND PIPES

Vesna Alar, Ivan Stojanović, Vinko Šimunović, Marin Kurtela, Dalibor Ivaniš: THE CORROSION PROPERTIES OF EPOXY COATING ON THE CAST IRON PIPELINES



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DAY 2 – FRIDAY 08.10.2021.

TIME / EVENT / LOCATION		
16.00 – 17.00 h	POSTER SESSION	HALL Šibenik V
Sofija Frljužec, Ivan Stojanović: CORROSION AND MECHANICAL PROPERTIES OF GRAY CAST IRON		
Marko Omelić, Miroslav Omelić: WALL THICKNESS MEASUREMENT OF A PIPELINE FILLED WITH LIQUID MEDIUM		
Ivan Stojanović, Ivan Juraga, Lara Janković, Ivan Cindrić, Vesna Alar, Vinko Šimunović, Marin Kurtela, Hrvoje Franjić: INFRARED DRYING OF LIQUID COATINGS FOR INDUSTRIAL APPLICATION		
Miroslav Omelić, Ivan Keser: DETECTION OF CORROSION DAMAGES USING INDUSTRIAL COMPUTED RADIOGRAPHY (cRT)		
9.00 – 17.00 h	EXHIBITION	HALL Šibenik V
19.00 h	GALA DINNER	Dalmatian Ethno Village at Amadria Park Šibenik

Participants are invited to visit the

EXHIBITION

at HALL Šibenik V

Trokutttest d.o.o.

IDEF d.o.o.

Kowotest

HELIOS HRVATSKA d.o.o.

Sig Sistemi d.o.o.

Cortec Corporation & EcoCortec & CorteCros d.o.o.

Ina maziva d.o.o.

Domeko d.o.o.

Gracotech Grupa d.o.o.

ZM-Vikom d.o.o.

Elimp d.o.o.



INVITED LECTURERS

Dr. Claus Qvist Jessen



Claus Qvist Jessen is born 1960 and is educated at the Technical University of Denmark as chemical engineer (1985) and ph.d. (1989). Prior to his employment at Damstahl a/s, Skanderborg, Claus has a curious past as consulting engineer specialised in stainless steel with FORCE Technology, Cleanodan and Risø. Since 2007, Claus has been employed with Damstahl a/s in Skanderborg, Denmark, dealing with the same type of work as before: Being a stainless Sherlock Holmes, and investigate why corrosion has occurred and what to do about it, including preventing future attacks. As knowledge is a major part of prophylaxis, Claus has spent a major part of his time “spreading the stainless word”, not only to Damstahl customers but also to students and professionals abroad. This includes employees at Icelandic and Faeroe fish processing plants and engineering students in Scandinavia and technical colleges in Uganda. Anywhere where people are in need of knowledge on stainless steel, corrosion and surface treatment. As a writer, Claus has contributed to no less than seven books on stainless steel, corrosion and surface treatment. Three of these were written in collaboration with the colleagues of FORCE Technology, while the remaining four have been written during his present work at Damstahl. In between the books, a number of stainless steel articles have seen the light of day. On the less technical level, Claus has spent a substantial part of the last 35 years along the dusty roads abroad. His travelling covers a number of highly unusual tourist countries, from Afghanistan and North Korea to Sudan and Somalia, plus the less “extreme” India, Tibet, Caribbean, Latin Amerika and the Pacific islands. Back in Denmark, some of the stories have been passed on to the Danish and international public, either as vivid lectures on tropical travelling or as articles on weird sports fishing.

Dr. Imre Felde



Dr. Imre Felde was born 19.07.1973. in Hungary. He achieved his PhD in Materials Science and Technology from Miskolc University (Hungary) in 2007. From 1995. to 2008. he was head of department and from 2008 to 2012. CEO of Bay Zoltán Foundation for Applied Research, Budapest, Hungary. From 2012. he is Vice Dean of Faculty of Informatics, Obuda University in Budapest, Hungary. He has published more than 100 scientific and technical papers in field of engineering, computer science, mathematics and process modeling. He is member of editorial board of Strojnicki Vestnik-Journal of Mechanical Engineering, International Journal of Microstructure and Mechanical Properties, Surface Engineering and Hindawi Advanced Materials Science and Technology.



WORKSHOPS

Wednesday 06.10.2021.

13.00 – 19.00

WORKSHOP 1

NEHRĐAJUĆI ČELICI

Organizator: Hrvatsko društvo za zaštitu materijala

Predavač: **Dr. Claus Qvist Jessen**

Kontakt i slanje prijava: ivan.stojanovic@fsb.hr

WORKSHOP 2

MJERENJE U NERAZORNIM ISPITIVANJIMA

Organizator: Hrvatski centar za nerazorna ispitivanja – CeNI

Kontakt i slanje prijava: damir.markucic@fsb.hr

WORKSHOP 3

TOPLINSKA OBRADA, MODIFICIRANJE I PREVLAČENJE ALATNIH ČELIKA

Organizator: Hrvatsko društvo za toplinsku obradu – HDTOIP

Kontakt i slanje prijava: bozidar.matijevic@fsb.hr

WORKSHOP 4

NOVOSTI U PODRUČJU ISPITIVANJA MEHANIČKIH SVOJSTAVA MATERIJALA I UMJERAVANJA OPREME

Organizator: Hrvatsko društvo za materijale i tribologiju – HDMT

Prijava za seminar putem e-mail adrese: zeljko.alar@fsb.hr



OFFICIAL LANGUAGES:

Official languages of the Conference are Croatian and English.

CONFERENCE BADGE:

Everyone is kindly requested to wear her/his name badge during the Conference as it provides access to the scientific sessions, poster session, coffee breaks and gala dinner.

COFFEE BREAKS:

Coffee breaks will be served at the Šibenik Lobby (Level -1) according to the program timetable.

DURATION OF PRESENTATION:

Due to the tight presentation schedule each participant selected for presentation is kindly asked to present his work in max. 12 min. Additional 3 min is left for the discussion of each presentation. All speakers are kindly asked to prepare the presentation in English in a Power Point format and to bring it on a USB memory device.

POSTER PRESENTATION:

Posters will be exhibited in the Convention Centre Hall Šibenik V.

All authors participating at MTECH 2021 with posters must print posters and bring them to the conference. The Conference Secretariat will provide tapes to fix posters. Poster size should be 70 cm x 100 cm (that is width x height; portrait format). Organizing Committee is unfortunately not able to offer a Poster Printing Service.

REGISTRATION:

All participants at MTECH 2021 must register via https://mtech-conf.hr/?page_id=513&lang=en.

CONFERENCE WELCOME DRINK:

Date and time: Wednesday, 6th October, 21:00

Venue: Hotel Ivan Lobby, Amadria Park Šibenik

The Organizers invite all guests to enjoy a breathtaking panorama, together with the appropriate welcome drink and snack in the terrace of the Hotel.

Dress code: Casual

CONFERENCE GALA DINNER:

Date and time: Friday, 8th October, 19:00

Venue: Dalmatian Ethno Village at Amadria Park Šibenik

For a must-try authentic experience, discover the rich culinary heritage of the region with a visit to Dalmatian Ethno Village. Offering a garden-to-plate experience, the village gives you a taste of the cooking traditions and agricultural methods of the region's past, offering delicious, rustic menus while also showcasing handicrafts. This living museum is a true hands-on experience. See food being prepared and taste dishes made by real artisans.

Dress code: Formal / **Accompanying person fee:** price on request