

• **Wednesday, 13th October 2021**

20:00 **WELCOME**

• **Thursday, 14th October 2021**

09:00 - 11:00 **Opening Session**

Chairs: D. Zvizdić, V. Popijač, D. Štuhec

Greetings and introduction of CROLAB

- D. Zvizdić /CROLAB/ CRO
- Representatives of ministries, agencies, universities, and guests, SiMER presentation

EUROLAB: developing an international cooperation

- P. Moscatti /EUROLAB/ IT

DHMZ – source of homogeneous and reliable atmospheric and water related data

- B. Ivančan-Picek /DHMZ/ CRO

COVID 19 and the environment

- A. Krivohlavek /NZJZ Dr. A. Štampar/ CRO

The optical atomic clock

- T. Ban /IF/ CRO

11:00 - 11:30 **Poster Presentations /Coffee break/**

11:30 - 14:00 **Lectures and Round Table
Club of analytical laboratories**

Chairs: M. Trkmić, V. Popijač, Ž. Zgorelec

The digitalization of sensory evaluation in food industry

- J. Ranilović, D. Gajari /Podravka d.d./ CRO

Application of LEAN methodology in the brewing industry – reaching operational excellence

- Lucija Kurte /Carlsberg Croatia d.o.o./ CRO

Ensuring the Validity of Results: Measurements of the Oxygen ($\delta^{18}\text{O}$) Stable Isotopes in Wine by IRMS Technique

- I. V. Petric, R. Leder /HAPIH/ CRO

Proximal spectroscopy and analytical chemistry in analysis of nitrogen content and miscanthus yield

- I. Šestak, Ž. Zgorelec, N. Bilandžija, A. Perčin, I. Fadljević /AF/ CRO

Evolution of elemental analysis

- V. Brezovečki-Biđin /Kobis d.o.o./ CRO

Application of standards HRN EN ISO/IEC 17025:2019 and HRN EN ISO/IEC 17043: 2010 in daily work of the Reference Laboratory for Milk and Dairy Products

- N. Mikulec, Š. Zamberlin, I. Horvat Kesić, N. Antunac /AF/ CRO

Trends and challenges in estimating uncertainty arising from sampling

- M. Trkmić, J. Petranović /HEP-Proizvodnja d.o.o./ CRO

DISCUSSION

14:00 - 15:00 **Lunch break**

15:00 - 22:00 **Excursion & dinner**

• **Friday, 15th October 2021**

09.00 - 11:00 **Lectures and Round Table
Club of calibration laboratories**

Chairs: M. Katić, L. Grgec Bermanec

Primary realisation of the temperature scale from the triple point of argon to the triple point of water

- I. Matas /FSB-LPM/ CRO

EMPIR project Probe Trace at FSB-LPMD

- G. Baršić /FSB-LPMD/ CRO

Establishment and development of Calibration laboratory of Croatian Meteorological and Hydrological Services

- E. Zobaj, P. Lepri /DHMZ/ CRO

Laboratory for Measurements and Measurement Technique of the Faculty of Geodesy

- Đ. Barković, M. Zrinjski, S. Baričević /GEOF-LMMT/ CRO

Traceability development for hardness in the Republic of Croatia

- Ž. Alar /FSB_LIMS/ CRO

System of national pressure standards in Slovenia

- J. Šetina /IMT/ SLO

Establishment of a National laboratory for time and frequency within the Center for the Advance Laser Techniques (CALT) at the Institute of Physics

- E. Trogrlić /IF-CALT/ CRO

Measurements as part of functionality check of ventilation and air conditioning systems

- P. Filipović, D. Dović, I. Horvat /FSB/ CRO

DISCUSSION

11:00 - 11:30 **Coffee break**

11:30 - 14:00 **Lectures and Round Table
Club of testing laboratories**

Chairs: D. Štuhec, V. Živković

Testing Lab for Manufacturing Industries: organizational, technical, occupational, and financial issues and challenges

- P. Moscatti /EUROLAB/ I

Wood products in differential climate condition – challenges and solutions

- V. Živković /ŠF/ CRO

Work of laboratories in COVID-19 pandemic – Experiences and lessons learned

- O. Štajdohar-Pađen/CROLAB/, M. Trkmić /HEP-Proizvodnja d.o.o./ CRO

Blasting technology in removal of the part of northern tower of Zagreb cathedral

- M. Dobričević, V. Škrlec /RGNF/ CRO

Examination of the characteristics of a brick walls damaged by an earthquake

- K. Ille, D. Sekulić, M. Gvozdanić /IGH/ CRO

Accreditation in function of non-accredited testing: Diagnostics on wooden structures in renovation of cultural heritage

- H. Turkulin; T. Sedlar /FŠ/ CRO

Strategies of thermal and mineral waters' analyses and innovative solutions for their treatment

- D. Ljubas; H. Juretić /FSB/ HR

DISCUSSION

14:00 - 15:00 **Lunch break**

15:00 - 17:00 **Poster Section**

Chairs: Š. Cerjan Stefanović, N. Antunac, T. Jakovljević

17:00 - 19:00 **Annual Assembly**

Chairs: D. Zvizdić, V. Popijač, D. Štuhec

20:00 **Gala Dinner**

• **Saturday, 16th October 2021**

09:00 - 10:00 **Lectures and Round Table
Club inspections and certification bodies**

Chairs: S. Kozlik, V. Mucko

The Testing, Inspection and Certification Sector: Current and future trends, drivers and challenges

- L. Martin /EUROLAB/

The role of LIMS within integrated quality integrated system

- I. Šebo, D. Raos /Pardus – IN2 group/ CRO

Authorisation in legal metrology – current situation and planned activities

- T. Župić /DZM/ CRO

DISCUSSION

10:00 - 12:00 **FORUM – Accreditation and quality infrastructure; Experience in applying the standard ISO/IEC 17025 (CRO and countries in the region)**

Moderator: M. Zečević

HAA, ATS, BATA, BOMMN ... presentation

- M. Zečević /HAA/ CRO

- A. Janičijević /ATS/ RS

- D. Primorac /BATA/ BIH

- G. Bajić /BOM/ MN

- S. Chokrevski /IARNM/ RNM

Accreditation to HRN EN ISO/IEC 17025:2017 and challenges brought by new revision of the standard and COVID-19 pandemic

- I. Stamenković /HAA/ CRO

12:00 - 12:30 **Conclusions and Closing of the Conference**

CROLAB President prof. D. Zvizdić

● WELCOME

Dear colleagues, I am inviting you to the 16th INTERNATIONAL CONFERENCE "LABORATORY COMPETENCE – Brijuni 2021", which will be held, **in compliance with all epidemiological measures**, on Brijuni Archipelago, Istria from 13 to 16 October 2021. The Conference is dedicated to the role of laboratories in economy. Our desire is to establish cooperation and contacts between CROLAB laboratories and with administration bodies, governmental bodies of neighbouring and other countries - members and future members of the EU. We are looking forward to seeing you!

Prof. Davor Zvizdić Ph.D. CROLAB President

● INTERNATIONAL PROGRAMME COMMITTEE (IPC)

Prof. dr. sc. D. Zvizdić, chair (FSB) CRO
Prof. dr. sc. Š. Cerjan Stefanović, vice-chair, CRO
Prof. dr. sc. N. Antunac (AF), vice-chair, CRO
E. Zobaj, struč. spec. ing. sec. (DHMZ), vice-chair, CRO
B. Abramović, dipl. ing. (Ekoneg) CRO
MSc. G. Bajić (Bureau of Metrology) MN
Prof. dr. sc. S. Babić (FKIT), CRO
Dr.sc. D. Ban (IPT Poreč) CRO
Č. Belić, dipl. ing. (DMDM) RS
I. Božičević, dipl. ing. (HZN) CRO
Mr. sc. M. Zečević (HAA) CRO
Mr. sc. Z. Džemić (IMBIH) BIH
S. Đerek, dipl. ing. (Fiditas d.o.o.) CRO
S. Mihelić, dipl. oec. (HGK) CRO
Prof. dr. sc. L. Grgec Bermanec (FSB) CRO
Prof. dr. sc. I. Jakaša (PBF) CRO
J. Jaklin Majetić (Pula Country Chamber of commerce) CRO
Dr. A. Janičijević, (ATS) RS
Doc. dr. sc. M. Katić (FSB) CRO
Dr. S. Kopač (SMI) SLO
Prof. dr.sc. O. Koprivnjak (MF University of Rijeka) CRO
D. Korunić, dipl. ing. (Fiditas d.o.o.) CRO
Prof. dr. sc. D. Kovačević (PBF, Osijek) CRO
S. Kozlik, dipl. ing. (Končar-Electrotechnical Institute d.d.) CRO
Prof. dr. sc. V. Krstelj (Croatia Engineering Society) CRO
Dr. sc. A. Krivohlevek (Teaching Institute of Public Health Dr. A. Štampar) CRO
Prof. I. Leito (UT) EST
dr. sc. T. Masten Milek (JU Green ring of Zagreb Country) CRO
Doc. dr. sc. N. Mikulec (AF) CRO
B. Novosel, dipl. oec. (DZM) CRO
Mr. sc. V. Popijač (Podravka d.d.) CRO
Mr. sc. D. Primorac (BATA) BiH
Prof. dr. sc. B. Runje (FSB) CRO
I. Sabljak, mag.ing.techn.aliment., univ.spec (Eurofins Croatiakontrola d.o.o.) CRO
O. Štajdohar-Pađen, dipl. ing. CRO
D. Štuhec, dipl. ing. CRO
Mr. sc. M. Trajkovska Trpevska (MAKLAB) MK
Dr. sc. M. Trkmić (HEP-Production d.o.o.) CRO
P. Moscatti (EUROLAB) IT (EURACHEM)
● **NATIONAL ORGANIZING COMMITTEE (NOC)**
M. Povodnik, ing. (Mirta-Kontrol d.o.o.) CRO
Dr. sc. I. V. Petric, (HAPIH) CRO
Dr. sc. T. Jakovljević (HSI) CRO
Doc. dr. sc. V. Živković (ŠF) CRO
M. Mačković, dipl. ing. (Fiditas d.o.o.) CRO
Z. Grgić, dipl. ing. (Ekoneg) CRO
I. Ivić, dipl. ing. (HZN) CRO
S. Kalšan, dipl. ing. (Koeistin d.d.) CRO
P. Lepri, dipl. ing. (DHMZ) CRO

Mr.sc. S. Ljubenko Mihelj, dipl.ing. (HZJZ) CRO

R. Mertz, dipl. ing. CRO

Mr. sc. S. Maričić Tarandek (Zvijezda plus d.o.o.) HR

V. Mucko, dipl. ing. CRO

Dr. sc. A. Rakić (Public Health Institute of Split-Dalmatia Country) CRO

Izv. prof. dr. sc. Š. Ukić, (FKIT), CRO

Izv. prof. dr. sc. Ž. Zgorelec (AF) CRO

● CONFERENCE PROGRAM

- Plenary speakers and oral presentations
 - Round tables
 - Poster presentations with short oral presentations
 - Exhibition of laboratory equipment and literature
- Official Conference languages are Croatian and English

● TOPICS

- Activities and news in testing, calibration and analytical laboratories and inspection and certification bodies.
- Role and position of laboratories in Croatia, region and EU
- Cooperation with ministries, governmental agencies (accreditation, metrology, standards), universities and institutes

● REGISTRATION FEE

1. 270€ + VAT

2. 210€ + VAT for CROLAB members

3. 160€ + VAT for students, research assistants, retired people

4. 130€ + VAT Accompanying persons fee

5. 130€ + VAT 1day fee

6. Lecturer's (first author) admission fee is lowered by 20 %

(210€ + VAT, CROLAB member 170€ + VAT)

VAT is 25%. Registration fees paid after 10 October 2021 will be 30% higher.

The fee includes: Book of summaries, Book of proceedings on CD, and/or publication in "CROLAB Glasilo", and other organizational costs.

The fee has to be paid to the following account number:

IBAN: HR862360001101693588, Zagrebačbanka d.d., Trg bana Josipa Jelačića 10, 10000 Zagreb, Croatia, with the participant's name and surname and the purpose of payment: "For the CROLAB Conference 2020".

CROLAB's OIB number: **94462158597**

● REGISTRATION, CONTACTS AND DEADLINES

Online registration for the conference is available on the website www.crolab.hr. Please register as soon as you can in order for us to better organize the conference. Please send Abstract of your work in English for the Book of Abstracts and full papers for publication in Conference proceedings by 14 September 2021 at the latest.

Abstracts of all lectures and posters will be included in the Book of Abstracts. The Papers will be peer-reviewed and published in Conference Proceedings. Abstracts are required, and papers are optional. Poster dimensions are 90x100cm.

Contact person: Mladenka Crneković, M.Eng.M.E.

tel: +385 914111570, +38516111570

e-mail: tajnistvo@crolab.hr; web: www.crolab.hr

Address: CROLAB, Berislavićeva 6, CRO-10000 Zagreb

● ACCOMMODATION

Conference attendees and accompanying persons will benefit from very favourable accommodation rates that we secured in hotel Neptun and hotel Istra. Participants are kindly requested to book their accommodation directly at the hotel until 08 October 2021, with the note "CROLAB2021".

Hotel Neptun, NP Brijuni, Brionska 10, 52212 Fažana

web: www.np-brijuni.hr; telefon: +385 52 525 914

e-mail: flores.marsetic@np-brijuni.hr



CROLAB

HRVATSKI LABORATORIJI
CROATIAN LABORATORIES
LABORATORIA CROATICA



16th INTERNATIONAL CONFERENCE

LABORATORY COMPETENCE 2021

13 – 16 OCTOBER 2021

HOTELS NEPTUN & ISTRIA
BRIJUNI ARCHIPELAGO – ISTRIA – CROATIA

AUSPICES

MINGOR, MP, MZO, DHMZ, DZM, HAA, HGK, HIS