



# **15<sup>th</sup> Tihany Symposium on Radiation Chemistry**

## **Program and Abstracts**

**23 August – 28 August, 2024**

**Eger, Hungary**





## SPONSORS

### HUN-REN Centre for Energy Research (HUN-REN CER)



### International Atomic Energy Agency (IAEA)



### Institute of Isotopes Co. Ltd.



### Radchem – Solution for Isotope Applications



### CRMSpace Hungary Ltd.



## **ORGANIZED BY**

**Hungarian Research Network Centre for Energy Research  
Radiation Chemistry Group, Surface Chemistry and Catalysis Department, Institute for Energy  
Security and Environmental Safety in co-operation with the International Atomic Energy  
Agency**

### **LOCAL ORGANIZING COMMITTEE**

**Chairpersons:** Renáta Homlok and Krisztina Kovács

**Honourable Chairpersons:** Erzsébet Takács and László Wojnárovits

Kornél Fél, Petra Mandula, László Mészáros, Róbert Schiller, László Szabó, László Takács, Anna Tegze

### **SCIENTIFIC COMMITTEE**

**Chairman:** Ákos Horváth (Hungary)

**Members:** Lucille V. Abad (Philippines), Sueli I. Borelly (Brazil), Mark Driscoll (USA), Nicholas Green (UK), Olgun Güven (Turkey), Monique Lacroix (Canada), Jay LaVerne (USA), Suresh Pillai (USA), Róbert Schiller (Hungary), Piotr Ulanski (Poland), Jianlong Wang (China)

### **INTERNATIONAL ORGANIZING COMMITTEE**

**Members:** Mohamad Al-Sheikhly (USA), Krzysztof Bobrowski (Poland), Andrzej Chmielewski (Poland), Xavier Coqueret (France), Masao Gohdo (Japan), Gregory P. Holmbeck (USA), Monique Lacroix (Canada), Gustavo Varca (Brazil), Israel Zilbermann (Israel)

### **VENUE**

Eger, Hungary  
Eger Park & Hotel  
3300 Eger, Szálloda út 1-3.

# PROGRAM

**AUG 23, Friday**

19:00                      **Opening, greetings. Dinner**

**AUG 24, Saturday**

## **Session 1: FUNDAMENTAL PROCESSES IN RADIATION CHEMISTRY**

Chair: Nicholas Green

### **Invited lectures**

10:00 – 10:30              Tamon Kusumoto  
**O1**                      WHAT IS THE MECHANISM OF FLASH EFFECTS?:  
DISCUSSION FROM RADIATION CHEMISTRY VIEW

### **Contributed talks**

10:30 – 10:50              Josef Sabol  
**O2**                      CHARACTERISTICS OF THE EFFECTS OF CHEMICAL (C) AND  
BIOLOGICAL (B) AGENTS WITH THE RISK RESULTING FROM  
RADIOLOGICAL (R) AND NUCLEAR COMPONENTS OF CBRN

10:50 – 11:10              Josef Sabol  
**O3**                      MINIMISING EFFECTS OF CBRN SUBSTANCES AND EVENTS  
ON BUILDINGS AND INFRASTRUCTURE

11:10 – 11:30              Libor Juha  
**O4**                      BEYOND EUV LITHOGRAPHY: DIRECT NANOSTRUCTURING  
INDUCED BY EUV/X-RAY LASERS

11:50 – 14:00              **LUNCH BREAK**

## **Session 2: LÁSZLÓ WOJNÁROVITS 80 YEARS I**

Chair: Erzsébet Takács

14:00 – 14:30              Mark Driscoll  
**O5**                      THE ROAD FROM ENVIRONMENTAL CHEMIST TO RADIATION  
CHEMIST, A TRIBUTE LÁSZLÓ WOJNÁROVITS

14:30 – 15:00              Mohamad Al-Sheikhly  
**O6**                      ON THE SUCCESSFUL COLLABORATION BETWEEN  
HUNGARY AND UNITED STATES ON DEVELOPING SOLID AND  
AQUEOUS BASED DOSIMETRY SYSTEMS FOR RADIATION  
PROCESSING

15:00 – 15:30              Vladimir Feldman  
**O7**                      RADIATION CHEMISTRY OF FROZEN INTERMOLECULAR  
COMPLEXES: BUILDING NEW SPECIES UNDER EXTREMELY  
COLD CONDITIONS

15:30 – 16:00            **COFFEE BREAK**

**Session 3: LÁSZLÓ WOJNÁROVITS 80 YEARS II**

Chair: Róbert Schiller

16:00 – 16:30            Jay LaVerne  
**O8**                        RADIATION CHEMISTRY OF WATER AT INTERFACES IN  
ELECTRON MICROSCOPY

16:30 – 17:00            Piotr Ulanski  
**O9**                        KINETICS AND MECHANISM OF RADIATION-INDUCED  
REACTIONS IN POLYMERS – STUDIES INSPIRED BY THE WORKS  
OF LÁSZLÓ WOJNÁROVITS

17:00 – 17:30            Xavier Coqueret  
**O10**                      RECENT DEVELOPMENTS IN QUANTIFYING RADIATION-  
INDUCED CHAIN COUPLING AND SCISSION IN POLYMERS

19:00 –                    **DINNER**

20:00 –                    **Evening Optional Program from 8:00 PM - Szépasszony Valley**  
(Details in the back of the book)

**AUG 25, Sunday**

**Session 4: APPLICATION – POLYMERS**

Chair: Xavier Coqueret

**Invited lectures**

- 10:00 – 10:30      Luis Ferreira  
**O11**                RADIATION PROCESSING – NEW APPROACHES FOR  
ADVANCED POLYMER-BASED MATERIALS
- 10:30 – 11:00      László Mészáros  
**O12**                EFFECT OF GAMMA IRRADIATION POST-TREATMENT ON THE  
MECHANICAL AND THERMAL PROPERTIES OF MATERIAL OF  
JETTING-PRINTED PHOTOPOLYMER SAMPLES

**Contributed talks**

- 11:00 – 11:20      Lóránt Kiss  
**O13**                EXPLORING THE MECHANICAL HYSTERESIS PROPERTIES OF  
VULCANIZATES CONTAINING GROUND TIRE RUBBER,  
SURFACE ACTIVATED THROUGH WATER RADIOLYSIS-  
BASED TREATMENT
- 11:20 – 11:40      Gabriela Tataru  
**O14**                RADIATION-INDUCED CONSOLIDATION OF THE THERMO-  
PHYSICAL PROPERTIES OF 3D-PRINTED MATERIALS
- 11:40 – 12:00      Ademar Lugao  
**O15**                RADIATION PROCESSING OF POLYMERS: IS IT STILL  
RELEVANT? NEW CHALLENGES AND OPPORTUNITIES

12:00 – 14:00      **LUNCH BREAK**

**Session 5: ENVIRONMENTAL PROTECTION I**

Chair: Slobodan Masic

**Invited lectures**

- 14:00 – 14:30      Mohamad Al-Sheikhly  
**O16**                SYNTHESIS OF NOVEL CO<sub>2</sub> SORBENTS THROUGH RADIATION-  
INDUCED GRAFT POLYMERIZATION REACTIONS
- 14:30 – 15:00      Libing Chu  
**O17**                DEGRADATION OF A STEROID ANDROSTENEDIONE IN  
AQUEOUS SOLUTION USING IONIZING IRRADIATION

**Contributed talks**

- 15:00 – 15:20      Yongxia Sun  
**O18**                DEGRADATION OF TETRACYCLINE IN AQUEOUS SOLUTION BY  
ELECTRON BEAM: KINETICS AND DEGRADATION MECHANISM

15:20 – 15:40 Ece Ergun  
**O19** GAMMA RADIATION/H<sub>2</sub>O<sub>2</sub> TREATMENT OF SELECTED  
EMERGING CONTAMINANTS: EXPERIMENTAL AND  
THEORETICAL EVALUATION

15:40 – 16:00 **COFFEE BREAK**

**Session 6: ENVIRONMENTAL PROTECTION II**

Chair: Mohamad Al-Sheikhly

**Invited lecture**

16:00 – 16:30 Jianlong Wang  
**O20** APPLICATION OF ELECTRON BEAM FOR WASTEWATER  
TREATMENT IN CHINA: CURRENT STATUS AND PROSPECTS

**Contributed talks**

16:30 – 16:50 Shijun He  
**O21** ELECTRON BEAM TECHNOLOGY FOR THE HIGH  
CONCENTRATED UDMH SOLUTION TREATMENT

16:50 – 17:10 Shizong Wang  
**O22** ELECTRON BEAM RADIATION COUPLED WITH  
FLOCCULATION PROCESS FOR ADVANCED TREATMENT OF  
COKING AND DYEING WASTEWATER: PERFORMANCE AND  
SYNERGISTIC

19:00 – **DINNER**

20:00 – 22:00 **Bowling evening**  
(Details in the back of the book)



**AUG 26, Monday**

**Session 7: ENERGY SAVING**

Chair: László Wojnárovits

**Invited lecture**

- 10:00 – 10:30 Sophie Le Caër  
**O23** PREDICTING DEGRADATION MECHANISMS IN LITHIUM BISTRIFLIMIDE “WATER-IN-SALT” ELECTROLYTES FOR AQUEOUS BATTERIES
- 10:30 – 11:00 Maria Helena Casimiro  
**O24** IAEA’S ROLE IN THE DEVELOPMENT AND EMERGING TRENDS ON RADIATION TECHNOLOGY APPLICATIONS

**Contributed talks**

- 11:00 – 11:20 Islam Mustafayev  
**O25** LOW-CARBON RADIATION CHEMICAL PROCESSES OF PRODUCTION OF OLEPHINS FROM OIL FRACTIONS
- 11:20 – 11:40 Hanqin Weng  
**O26** TRANSIENT PROCESSES FOR THE RADIOLYSIS OF DIAMIDE PHENANTHROLINE IN 1-OCTANOL
- 11:40 – 12:00 Zoltán Juhász  
**O27** LABORATORY ASTROCHEMICAL STUDIES ON ION-IRRADIATED ICE ANALOGUES FOR THE JUICE MISSION
- 12:00 – 12:20 Kristýna Havlinová  
**O28** GGAG:Ce<sup>3+</sup>@SiO<sub>2</sub>-RB COMPOSITE FOR RADIODYNAMIC THERAPY
- 12:20 – 14:00 **LUNCH BREAK**

**Session 8: BIOPOLYMERS**

Chair: Jay LaVerne

**Invited lectures**

- 14:00 – 14:30 Monique Lacroix  
**O29** THE ROLE OF IRRADIATION IN THE DEVELOPMENT OF ECO-FRIENDLY ACTIVE FOOD PACKAGING
- 14:30 – 15:00 Wanvimol Pasanphan  
**O30** ELECTRON-BEAM REINVENTING BIO-BASED POLYMERS AND SUSTAINABLE MATERIALS TO FUNCTIONAL MICRO/NANOSTRUCTURES FOR NET-ZERO INDUSTRY

**Contributed talks**

- 15:00 – 15:20 Philip Marinov  
**O31** EFFECT OF IONIZING RADIATION ON THE ACTIVITY OF THE ENZYMES

15:20 – 15:40 Mark Driscoll  
**O32** OPTIMIZATION OF CELLULOSE AND ALPHA CELLULOSE  
SOLUBILITY IN SODIUM HYDROXIDE OPTIMIZATION OF  
CELLULOSE AND ALPHA CELLULOSE SOLUBILITY IN  
SODIUM HYDROXIDE

15:40 – 16:00 **COFFEE BREAK**

**Session 9: BIOPOLYMERS, FOOD IRRADIATION**

Chair: Mark Driscoll

**Invited lecture**

16:00 – 16:30 Joseph Robertson  
**O33** SINGLE MOLECULE APPROACHES TO STUDYING RADITION-  
INDUCED LESIONS IN DNA

**Contributed talks**

16:30 – 16:50 Joana Madureira  
**O34** GAMMA RADIATION: A TECHNOLOGY TO ENHANCE THE  
EXTRACTABILITY OF BIOACTIVE COMPOUNDS FROM OLIVE  
WASTES FOR FOOD APPLICATIONS

16:50 – 17:10 Aleksandar Krleski  
**O35** DEVELOPMENT OF AN EFFICIENT PROTOCOL FOR THE  
EFFECTIVE USE OF LABORATORY RESOURCES FOR THE  
IMPLEMENTATION OF COUNTRYWIDE CONTROL AND  
MONITORING OF IRRADIATED FOOD

**Session 10: POSTER SESSION**

17:10 – 19:00

19:00 **DINNER**

**AUG 27, Tuesday**

**Session 11: NANOMATERIALS**

Chair: Piotr Ulanski

**Invited lectures**

- 9:00 – 9:30            Tanja Jurkin  
**O36**                GAMMA IRRADIATION AS AN EFFICIENT TECHNIQUE FOR  
THE SYNTHESIS OF MAGNETIC NANOSTRUCTURES
- 9:30 – 10:00        Masao Gohdo  
**O37**                INVESTIGATION OF RHODAMINE NANO-CLAY RADIO-  
FLUOROGENIC GEL DOSIMETERS BY PHOTOLUMINESCENCE-  
DETECTED PULSE RADIOLYSIS

**Contributed talks**

- 10:00 – 10:20        Lenka Prouzová Procházková  
**O38**                RADIATION STABILITY OF NANOCOMPOSITE  
SCINTILLATORS
- 10:20 – 10:40        Gergő Lakatos  
**O39**                ASTROCHEMISTRY OF CALCIUM CARBONATE – THE ROLE OF  
LOW-ENERGY PROTON IMPLANTATION
- 10:40 – 11:00        Beata Rurarz  
**O40**                RADIATION-SYNTHESIZED POLY(ACRYLIC ACID) NANOGELS  
AS RADIOISOTOPE CARRIERS FOR CANCER THERANOSTICS.  
FROM SYNTHESIS TO ANIMAL STUDIES
- 11:00 – 11:20        Semiha Duygu Sütekin  
**O41**                MODULATING HYDROLYSIS AND ZETA POTENTIAL IN  
AMINE-FUNCTIONALIZED NANOGELS: SYNTHESIS, SIZE  
CONTROL AND PH RESPONSIVE PROPERTIES
- 11:40 – 14:00        **LUNCH BREAK**
- 14:00 – 18:00        **CONFERENCE EXCURSION**  
(Details in the back of the book)
- 19:30 – 22:30        **CONFERENCE DINNER**

**Closing remarks and award ceremony of Best Poster and Best Oral  
Presentation**

**AUG 28, Wednesday TRAVEL HOME**

# POSTER SESSION

**AUG 26, Monday**

**17:10 – 19:00**

- P1** A. Horynová, V. Hájková, Š. Jelínek, J. Chalupský, V. Vozda, L. Vyšín, J. Bulíčka, T. Burian, R. Dudžák, M. Krupka, Z. Kuglerová, J. Krása, N. Medvedev, L. Fekete, L. Juha for PBS/CDL Damage Collaborations  
RADIOLYSIS OF LEAD IODIDE AND RELATED PEROVSKITE MATERIALS INDUCED BY XUV/X-RAY LASERS AND OTHER SOURCES
- P2** O. Riabukhin, T. Maksimova, D. Maksimkin  
OPTICAL PROPERTIES EVALUATION OF STERILIZED PET BLOOD TEST TUBES
- P3** T. Kusumoto, Y. Okazaki, M. Fromm, S. Roux, R. Bazzi, R. Hirayama, S. Kodaira, J. Kataoka  
INCREASE OF YIELDS OF HYDROXYL RADICALS DUE TO THE DECOMPOSITION OF HYDROGEN PEROXIDE BY GOLD NANOPARTICLES UNDER PROTONS AND HEAVY IONS
- P4** M. D'Angelantonio, G. Petrone, A. Kovtun, M. Melucci, V. Palermo, A. Liscio  
GAMMA-RAY ASSISTED REDUCTION OF GRAPHENE OXIDE THIN FILMS: PRELIMINARY RESULTS
- P5** S. Kadlubowski, T. Balogh, P. Ulanski  
INFLUENCE OF IONIZING RADIATION ON POLY(N-VINYL-2-PYRROLIDONE) IRRADIATED IN SOLID STATE AND AQUEOUS SOLUTIONS
- P6** E. Ergun, Hilal B.D. Halkman, A. Fitoz, Ö. Kantoğlu, Ü. Ergun, E. Orhan  
UTILIZING GAMMA IRRADIATION WITH GREEN ANTIBACTERIAL AGENTS AS A PROMISING ALTERNATIVE FOR PRESERVING HISTORICAL TEXTILES
- P7** E. Suljovrujic, D. Milicevic, D. Milivojevic, H. Lewandowska, J. Sadlo, E. Džunuzović, G. Stamboliev  
THE INFLUENCE OF DIFFERENT RADIATION MODALITIES ON POST-IRRADIATION BEHAVIOUR AND PROPERTIES OF HIGHLY CRYSTALLINE PP
- P8** E. Furu, R. Huszánk  
PROTON BEAM DEGRADATION OF IBUPROFEN IN-AIR
- P9** Z. Khalilov  
GAMMA FACILITY, IRRADIATION APPLICATIONS IN AZERBAIJAN

- P10** F.L. Zorila, M. Ene, D.C. Negut, L. Trandafir, A.S. Dumbrava, M. Constantin, A.S. Baltac, C. Acomanoai, M. Alexandru  
CELL VIABILITY AND METABOLIC CHANGES IN  
*STAPHYLOCOCCUS AUREUS* FOLLOWING GAMMA  
IRRADIATION UNDER DIFFERENT CONDITIONS
- P11** R. Homlok, M. Elsherbeny, Cs. Mohácsi-Farkas, Á. Belák  
CHANGES IN ANTIBIOTIC SUSCEPTIBILITY OF  
*STAPHYLOCOCCUS AUREUS* STRAINS DUE TO GAMMA  
IRRADIATION AND DIFFERENT SALT CONCENTRATIONS
- P12** R. Homlok, T. Kocsis  
IONIZING RADIATION EFFECTS ON OPPORTUNISTIC  
PATHOGENIC BACTERIAL STRAINS IN THE PRESENCE OF  
PIPERACILLIN
- P13** M. Kovács, A. Tegze, R. Homlok, L. Wojnárovits, Cs. Mohácsi-Farkas, E. Takács, Á. Belák  
APPLICATION OF GAMMA RADIATION IN ORDER TO  
PREVENT THE SPREAD OF ANTIBIOTIC RESISTANCE IN  
*STAPHYLOCOCCUS AUREUS*
- P14** S.D. Sütökin, N.A. Aimanova, A.A. Mashentseva, M. Barsbay  
GAMMA RADIATION-INDUCED SYNTHESIS OF PVP-  
STABILIZED PALLADIUM NANOPARTICLES ON  
CELLULOSE FOR PHOTOCATALYTIC DEGRADATION OF  
CIPROFLOXACIN
- P15** Y. Kumagai, A. Koshizaka, R. Ikarugi, T. Oka, J. Kumagai, Y. Kitatsuji  
HYDROGEN PRODUCTION FROM RADIOLYSIS OF WATER-  
CONTAINING URANIUM OXIDE POWDERS
- P16** D. Milicevic, D. Milivojevic, S. Galovic, K. Djordjevic, E. Džunuzović, D. Dudić, E. Suljovrujić  
THE INFLUENCE OF ORIENTATION ON THE FREE-RADICAL  
EVOLUTION IN DIFFERENT POLYETHYLENES EXPOSED TO  
GAMMA RADIATION
- P17** A. Baltac, I. Atkinson, D. Culita, R. Mitran, D. Neguț, M. Alexandru, F. Zorilă  
ANTIMICROBIAL DELIVERY SYSTEMS CONTAINING  
MESOPOROUS SILICA AND SILVER NANOPARTICLES  
OBTAINED THROUGH GAMMA IRRADIATION

- P18** R. Wach, M. Olejniczak, B. Rokita, A. Olejnik  
DENATURATION OF FISH COLLAGEN EXPOSED TO  
IONIZING RADIATION USED STERILIZATION
- P19** G. Albarrán, K.E. Collins, C.H. Collins  
RADIOLYTIC PRODUCT DISTRIBUTION IN SELF-  
IRRADIATED AND GAMMA IRRADIATION SOLID STATE  
Ca<sup>14</sup>CO<sub>3</sub>: NEW DATA
- P20** A. Bezsenyi, E. Takács  
THE FUTURE OF  $\gamma$ -RADIATION MODELED AOP (ADVANCED  
OXIDATION PROCESSES) IN WASTEWATER TREATMENT
- P21** K. Kovács, A. Tegze, A. Bezsenyi, L. Wojnárovits  
A SPECTRAL AND KINETIC STUDY ON DEGRADATION OF  
METOPROLOL USING HIGH ENERGY IONIZING RADIATION
- P22** A. Zaouak, H. Chouchane, H. Jelassi  
PERFORMANCE AND DEGRADATION PATHWAYS OF  
QUIZALOFOP ETHYL AN EMERGING POLLUTANT BY  
IONIZING RADIATION IN AQUEOUS SOLUTION
- P23** M. Virgolici, F. Albota, E. Ionuz, A. Ficai, S. Vasilca, A. Serban, M.  
Cutrubinis, D. Constantinescu, V. Moise  
MODIFIED ATMOSPHERE AND TEMPERATURE GAMMA  
IRRADIATION EXPLORATORY STUDIES ON EVALUATING  
POLYOLEPHINES RECYCLING POTENTIAL
- P24** Aijuan Zhou, Rui Han, Yong Liu  
SELECTIVE OXIDATION OF AMMONIA NITROGEN TO  
DINITROGEN BY A TETRAVALENT IRON OXIDE COMBINED  
WITH A SULFITE REDUCTION PROCESS UNDER UV  
IRRADIATION
- P25** Jun Kumagai, Keisuke Hosomi, Miho Ogiso, Katsuyoshi Horinouchi,  
Shinya Hasegawa, Kumi Negishi, Masaya Ida, and George Hasegawa  
H<sub>2</sub> EVOLUTION FROM HYDRATED WATER IN CEMENT  
COMPONENT CRYSTALS VIA  $\gamma$ -RAY RADIOLYSIS: EFFECT  
OF IRRADIATION TEMPERATURE
- P26** S. Masic, I. Vujcic  
DEVELOPMENT OF BIOPOLYMER ACTIVE PACKAGING  
MATERIALS BASED ON CELLULOSE AND POLYETHYLENE  
GLYCOL

- P27** L. Kudrevicius, P. H. Castillo, D. Adliene  
THE BEHAVIOUR OF METAL PARTICLES ENRICHED  
POLYMER FILMS IN RADIATION HARSH ENVIRONMENT
- P28** A. Jreije, J. Laurikaitienė, N. Keršienė, P. Griškevičius, D. Adliene  
FULLY RECYCLABLE 3D PRINTING COMPOSITES FOR  
CUSTOMIZED HEAD IMMOBILIZATION MASKS IN  
RADIOTHERAPY
- P29** R. Huszánk, E. Furu,  
2 MeV ION IRRADIATION OF PORPHYRIN IN ITS THREE  
FORM
- P30** C. Duss, E. Marchioni, L.J. Charbonnière, J. M. Jung, Florent Kuntz  
DOSIMETRY APPLIED TO LOW ENERGY ELECTRON BEAM



## Saturday Evening Optional Program from 8:00 PM

### *Self-financed program*

We will visit Szépasszony Valley for a wine-tasting experience.

Szépasszony Valley is the largest continuous wine cellar area in Eger, with nearly 200 cellars. The wineries welcome everyone at any time for a glass of wine on their cozy terraces or in their cellars. Some of the most popular wines include Egri Leányka, Bikavér, and Egri Csillag. Alongside the wines, you can often find cheese, pogácsa (savory pastries), and traditional bread with lard, while some places offer jams and syrups to entice guests.

Even if you're not a wine enthusiast, you are still welcome to join us, as the area is beautiful, and many cellars feature live music in a charming atmosphere.

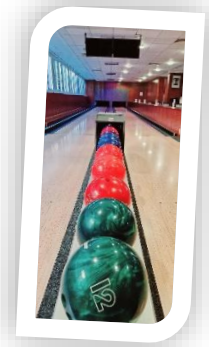
**We will depart from the reception. There are two routes to choose from:**

- Those who prefer a **walk** can join the group led by **Professor Erzsébet Takács** and **Professor László Wojnárovits**. The walk is approximately 30 minutes (2 km).
- For those who prefer a quicker option, you can take a **taxi**. The taxi ride takes about 6 minutes and costs around 8-10 euros per trip, accommodating up to 3 people comfortably.



## Sunday Evening Optional Program: Bowling Night at London Bar & Bowling

Join us for a fun-filled evening at the **London Bar & Bowling**, located within the hotel (you can enter from the outside), from **8:00 PM to 10:00 PM**. Both bowling lanes are reserved exclusively for conference participants, and you can enjoy **bowling for free!** Special bowling shoes are required to play, which will be provided for you on-site, free of charge.



**If you prefer billiards, there's also a billiard table available:**

2000 HUF (around 5 euros) for 30 minutes

3000 HUF (around 7.5 euros) for 60 minutes

Even if bowling or billiards isn't your thing, don't just stay in your room! Come down and enjoy the great company and the lively atmosphere. The bar offers delicious cocktails, and the fun is guaranteed.



## CONFERENCE EXCURSION: Explore the Historic Eger Castle

**We will depart from the reception at 2:00 PM.**

Prepare for an unforgettable journey through time as we visit the legendary Eger Castle, a symbol of Hungary's rich history and resilience. Our excursion includes a series of exclusive experiences:

- **Guided Tour of the Underground Corridor System**  
Discover the hidden depths of the fortress with a guided tour through the mysterious underground corridors (Mine monitoring corridor). This special, enclosed historical site offers a unique glimpse into the past, where temperatures range between 9-20°C. Even in the summer heat, a light sweater and sturdy shoes are recommended for comfort as you navigate these narrow passageways.
- **EGER, 1552 - A Cinematic Journey**  
Step into the Egri vár cinema for a captivating short film that retells the dramatic siege of Eger Castle from the perspective of today's youth. Experience the heroism and bravery that shaped Hungary's history through modern eyes.
- **Weapons, Uniforms, and a Parade Shot**  
Witness the grandeur of historical military life with a special display of period weapons and uniforms, culminating in a thrilling parade shot demonstration that will transport you back to the days of the castle's defenders.
- **Wine Tasting at Cipóosztó House**  
End the day on a high note with a delightful wine tasting session at the charming Cipóosztó House, where you can taste some of the finest local wines in a truly authentic setting.



## Notes

## Notes

## Notes



