



MEDVEDNICA
Park prirode
Nature Park



**ZELENI DODIR
MEDVEDNICE**



**PARKOVI
HRVATSKE**

2nd Scientific Conference with International Participation



**GREEN TOUCH
MEDVEDNICA**

4th and 5th September 2024

Medvedgrad Visitor Center, Himper 16, Zagreb

PATRONS:

Ministry of Environmental Protection and Green Transition
Environmental Protection and Energy Efficiency Fund
Zagreb Tourist Board

CO-ORGANIZERS:

CROATIAN ACADEMY OF SCIENCES AND ARTS
Department of Natural Sciences
Department of Fine Arts
Scientific Council for Architecture, Urban Planning and Landscaping
International Association of Environmental Scientists and Professionals
University of Zagreb, Faculty of Forestry and Wood Technology
Croatian Chamber of Forestry and Wood Technology Engineers
University of Slavonski Brod, Department of Biotechnology
Institute for Medical Research and Occupational Health
Hrvatske šume d.o.o., Forest Management Branch Zagreb
Croatian forest research institute
Public institution Green Ring of Zagreb County
Nature of the City of Zagreb, Public Institution for the Management of Natural Values of the City of Zagreb
Public institution for the management of protected areas of nature in Krapina-Zagorje County



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PROGRAMME

4th September 2024
Medvedgrad Visitor Center

09:00 - 10:00 PARTICIPANTS REGISTRATION

09:00 - 10:00 DISPLAY OF POSTERS

10:00 - 10:30 GREETINGS AND OPENING OF THE CONFERENCE

10:30 - 11:00 COFFEE BREAK

11:00 - 12:00 PLENARY LECTURE

11:00 Flora inventory as a tool for preserving the natural and landscape values of Medvednica Nature Park; *Ivana Vitasović Kosić*

11:20 Natural diversity of flora and fauna in the area of the South Dilj economic unit; *Slavica Antunović, Katica Nuspahić, Dinko Zima, Ljiljana Božić-Ostojić, Edita Štefanić, Robert Benković*

11:40 Project destination: Zagreb
Extracurricular activity for high school students in the city of Zagreb; *Martina Bienenfeld*

12:00 The importance of green areas in connecting people and the city – the role for future generations; *Kristina Duvnjak Perković*

I. section Sustainable management of protected areas (biodiversity, landscape diversity, geodiversity)

12:20 Unraveling the dynamics of urban streams: ecological research in the Medvednica Nature Park and the urban area of Zagreb; *Mirela Sertić Perić, Zrinka Dragun, Marta Renje, Tvrtko Dražina, Renata Matoničkin Kepčija*

12:30 Beech leaves (*Fagus Sylvatica*) as a microhabitat for small terrestrial invertebrates on Medvednica Mountain; *Stefan Majnarić, Mirela Sertić Perić, Fran Rebrina*

12:40 Discovering the potential of invasive plant species - threat or opportunity to the bioeconomy?; *Anamarija Peter, Dubravka Dujmović Purgar, Vesna Židovec, Mihael Kušen, Jana Šic Žlabur*

12:50 Invasive potential of allochthonous ornamental plant species (Life OrnamentalIAS Project); *Mihael Kušen, Dubravka Dujmović Purgar, Jana Šic Žlabur, Anamarija Peter, Martina Šipek Penić, Božena Mitić, Vesna Židovec*



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- 13:00 Reproductive features of the wild boar (*Sus scrofa*) in the area of the southern part of the Medvednica Nature Park; *Krešimir Krapinec, Kristina Pavešić, Kristijan Tomljanović, Marko Vucelja, Linda Bjedov, Marin Tomaić*
- 13:10 Allelopathic potential of the invasive species *Ailanthus Altissima* and *Reynoutria Japonica* present in the Medvednica Nature Park; *Valentina Šoštarčić, Maja Novak, Nenad Novak, Laura Pismarović, Maja Šćepanović*
- 13:20 A contribution to the knowledge of the Caddisflies fauna (Insecta, Trichoptera) of Medvednica with reference to DNA barcoding; *Ivan Vučković, Anđela Čukušić, Mladen Kučinić*
- 13:30 Climate change as a potential cause of the decrease in the number of the hibernating colony of bats of the species Lesser Horseshoe Bat in the Veternica cave; *Denis Kovačić, Andrea Kostelić, Tajana Ban Čurić, Martina Belović Kelemen, Marina Popijač*

13:40 – 14:30 BREAK

- 14:30 How to control an invasive foreign species – a successful example of controlling an invasive forest pest on Medvednica; *Dinka Matošević, Nikola Zorić*
- 14:40 Cultivation and use of inoculated seedlings of forest tree species with black truffles; *Anton Brenko, Ivana Zegnal, Jasnica Medak*
- 14:50 Dry mountain grasslands of Medvednica and Zagreb highlands – yesterday, today, tomorrow; *Irina Zupan, Saša Banić, Biljana Janev Hutinec, Lana Jelić*
- 15:00 Landscaping of the Črnomerec Stream as a green-blue infrastructure corridor of the City of Zagreb; *Dorotea Garašić, Petra Pereković, Ines Hrdalo, Marina Štambuk*
- 15:10 The fight against ornamental invasive plants – the LIFE OrnamentalIAS project in action; *Martina Kadoić Balaško, Tatjana Masten Milek, Luka Basrek*
- 15:20 Analysis of methods and results of monitoring Quarantine Forest Pests in Croatia: a five-year review; *Nikola Zorić, Andrija Jukić, Tomislav Krcivoj, Dinka Matošević*
- 15:30 The variety of sources on the upstream side of the Medvednica Nature Park; *Ivan Martinić, Ivan Čanjevac*

15:40 -16:20 POSTER SECTION

- Invasive plants of the forests of the Papuk Nature Park; *Dinko Zima, Slavica Antunović, Liljana Božić-Ostojić, Iva Knezović*
- 15:40 Evaluation of the visual qualities of the landscape of the area of the City of Samobor; *Patrik Kostić, Dora Tomić Reljić*
- Measurement of radioactivity in soil and moss at Medvednica Nature Park; *Petra Tagliaretti, Branko Petrincec, Tea Čvorišćec, Dinko Babić, Tomislav Bituh, Nora Miljanić, Marina Popijač*
- 16:20 Cesium-137 and Strontium-90 in precipitation in Zagreb in 2021, 2022 and 2023; *Dragutin Hasenay, Branko Petrincec, Iva Franulović, Milica Kovačić, Tea Čvorišćec, Dinko Babić, Branimir Zauner, Tomislav Bituh, Nora Miljanić, Marina Popijač*



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- 15:40 Environmental monitoring of radioactivity in Medvednica Nature Park: results of Radon measurements; *Tea Čvorišćec, Branko Petrinc, Dinko Babić, Tomislav Bituh, Nora Miljanić, Marina Popijač*
- Soil geochemistry in the vicinity of the French mines on Medvednica; *Sibila Borojević Šošćarić, Laura Pavlović, Tomislav Brenko*
- 16:20 Levels of polycyclic aromatic hydrocarbons in the soils of the City of Zagreb; *Zdravka Sever Štrukil, Iva Smoljo, Gordana Pehnc, Matija Galić, Aleksandra Perćin, Iva Hrelja, Željka Zgorelec*
- Trail „Leustekova staza“ on Medvednica: revitalization and preservation for future generations; *Kruno Lepoglavec, Dalibor Babić, Iva Murgić Lepoglavec*

16:20 CLOSING OF THE FIRST DAY OF THE CONFERENCE



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PROGRAMME

5th September 2024
Medvedgrad Visitor Center

09:00 - 09:30 PARTICIPANTS REGISTRATION AND DISPLAY OF POSTERS

II. section Preservation of cultural values

9:30 Medvedgrad coin of King Bela IV.; *Igor Rapačić, Gabor Spielmann*

III. section Green economy – the future of development and progress

9:50 Afforestation of neglected land in a difficult-to-access area; *Vlado Halusek*

10:00 Prohibition of motor vehicles on hiking trails in the Medvednica Nature Park; *Mia Vučević, Nela Jantol*

10:10 Public involvement in planning, management and maintenance of trees, forests and green spaces in urban areas – professionals' perceptions and attitudes; *Silvija Krajter Ostoić, Martina Kičić, Francesca Ugolini, Maja Simoneti, Giovanni Sanesi, Andrej Verlič, Luciano Masetti, Paloma Carinanos, Pedro Calaza-Martinez, Ingrida Šaulienė, Jelena Tomičević-Dubljević, Ivana Živojinović, Amila Brajić, Dženan Bećirović, Artur Goncalves, Vladimir Stojanovski, Dijana Vuletić*

10:20 Construction in Medvednica Nature Park; *Tajana Ban Ćurić, Sandra Wolf Kramarić, Martina Belović Kelemen, Marija Popijač*

10:30 Urban tourism – challenges of branding the city as „green”; *Kristina Duvnjak Perković, Ana Hodak*

10:40 – 11:00 COFFEE BREAK

IV. section Sustainable tourism – responsible use of heritage in planning tourist activities

11:00 The role and significance of geoheritage in the development of sustainable tourism in Croatian national parks; *Dijana Vuković, Fani Kerum, Neven Šipić*

11:10 Brestovac as a cultural tourism potential; *Jasenka Kranjčević, Amir Muzur*

11:20 Increasing the domestic component in the tourist product is a contribution in Croatia; *Miroslav Drljača*

11:30 Dangers and advantages of using electric vehicles by tourists in nature parks; *Matija Leskovar, Marko Kršulja, Dinko Jurjević*

11:40 Codes of conduct in naturally protected areas – reality of future? ; *Kristina Bučar, Sanda Soucie*

11:50 Inventory and examples of conceptual solutions for arranging wild waste disposal sites in the Medvednica Nature Park; *Dora Kosijer Gorički, Lucija Balja, Damir Barčić, Kruno Lepoglavec, Dalibor Babić, Martina Jurjević Varga, Sandra Wolf Kramarić*



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12:00 - 12:20 POSTER SECTION

Monitoring the deposition fluxes of organic pollutants in the protected area; *Iva Smoljo, Gordana Pehnc, Gordana Mendaš Starčević*

12:00 Analysis of the success rate of rehabilitation of windbreaks in state forests in the
– Medvednica Nature Park; *Damir Miškulin, Nives Salopek, Dalibor Babić, Matea
12:20 Vuković, Tihana Otmačić*

The role of biodeterioration on historic buildings: a focus on castles and towers in
Campania; *Alessia Cozzolino, Giuliano Bonanomi, Riccardo Motti*

12:20 – 13:20 BREAK

V. section Forest management for the purpose of ecological, social and economic sustainability of forests

13:20 Safety analysis in the nature park; *Dinko Jurjević*

13:30 Challenges of managing the Medvednica Nature Park with a special focus on traffic;
Martina Jurjević Varga, Špela Pezdevšek Malovrh, Marina Popijač

13:50 Variability of potentially toxic metals in the soil of the Red slope in the Medvednica
Nature Park; *Aleksandra Perčin, Željka Zgorelec, Lea Lugarić, Ivica Kisić*

VI. section Climate change as a serious threat to the preservation of biodiversity

14:00 Agroclimatic changes in the Medvednica Nature Park; *Darija Bilandžija*

14:10 Diversity of climate change impacts on tourism in protected areas: examples from
Croatia; *Izidora Marković Vukadin, Staša Borović, Hrvoje Mataković*

VII. section The role and meaning of ecological education as an important element in the management of protected areas of nature

14:20 „To Sleme, to Sleme, to Sleme“: the culture of mountaineering on Medvednica;
Petra Ilić

14:30 Radon in the workplace - education to reduce the risk; *Tomislav Bituh, Branko
Petrinec, Tea Čvorišec, Marina Popijač*

14:40 CLOSING OF THE CONFERENCE



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