



## **Joint ESENIAS and DIAS Scientific Conference and 9<sup>th</sup> ESENIAS Workshop**

**Species, ecosystems and areas of conservation concern  
under threat from the invasive alien species**

**03–06 September 2019**

**Aqualina Hotel, Sveti Stefan  
Ohrid, Republic of North Macedonia**

**Organised by:**

**HYDROBIOLOGICAL INSTITUTE OHRID (HIO)**

**PUBLIC INSTITUTION GALICICA NATIONAL PARK**

**EAST AND SOUTH EUROPEAN NETWORK FOR  
INVASIVE ALIEN SPECIES (ESENIAS)**

**DANUBE REGION INVASIVE ALIEN SPECIES NETWORK (DIAS)**

**INSTITUTE OF BIODIVERSITY AND ECOSYSTEM RESEARCH,  
BULGARIAN ACADEMY OF SCIENCES (IBER-BAS)**

**Supported by:**

**MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF  
NORTH MACEDONIA**

**PUBLIC INSTITUTION GALICICA NATIONAL PARK**

# CONFERENCE PROGRAMME

## Meeting venue:

Aqualina Hotel, Sveti Stefan  
Boulevard Saint Naum of Ohrid, Sveti Stefan,  
6000 Ohrid, Republic of North Macedonia  
<https://www.aqualina.com.mk/>

**3 September 2019**

09:30 – 10:30 **Registration**

## Conference Hall 'Astor'

10:30 – 11:00 **Opening**

**Chair: Prof. Dr. Sasho Trajanovski**

Teodora Trichkova, ESENIAS and DIAS

Prof. Dr. Elizabeta Veljanoska-Sarafiloska, Director, HIO

Mr Vasko Paskali, Director, Public Institution Galicica National Park

Mr Maarten Hofman, IUCN SSC Invasive Species Specialist Group

11:00 – 12:00 **Welcome cocktail**

## **Session 1**

**Chairs: Elizabeta Veljanoska-Sarafiloska, Sasho Trajanovski**

### **Keynote presentation 1**

12:00 – 12:30 **Teodora Trichkova, Sasho Trajanovski, Konstantin Zdraveski, Rumen Tomov, Vladimir Vladimirov, Ahmet Uludağ** – ESENIAS and DIAS activities towards protection of threatened species, ecosystems and areas of conservation concern against invasive alien species

### **Keynote presentation 2**

12:30 – 13:00 **Konstantinos Tsiamis, Eugenio Gervasini, Ivan Deriu, Ana Cristina Cardoso** – Distribution of invasive alien species of Union concern (EU Regulation 1143/2014) across Europe with emphasis in the ESENIAS region

### **Keynote presentation 3**

13:00 – 13:30 **Boyko B. Georgiev** – Role of parasites in biological invasions

13:30 – 14:15 **Lunch**

## Session 2

**Chairs: Paraskevi Karachle, Konstantin Zdraveski**

### **Keynote presentation 4**

14:15 – 14:45 **Rob Tanner** – Invasive alien plants with negative agricultural impacts in the EPPO region

### **Topic 2: Vectors and pathways for invasive alien species introductions**

14:45 – 15:00 **Rumen Tomov, Teodora Trichkova, Vladimir Vladimirov, Zdravko Hubenov, Yordan Koshev, Simeon Lukanov, Nedko Nedyalkov, Boris Nikolov, Georgi Popgeorgiev, Tihomir Stefanov, Milcho Todorov** – Analysis of pathways of introduction and spread of invasive alien species of European Union concern in Bulgaria

### **Topic 5: Invasive alien species prevention and management**

15:00 – 15:15 **Sandro Bertolino** – Useful tools for prioritising invasive species for national lists

15:15 – 15:30 **Noé Ferreira-Rodríguez, Dan Cogălniceanu** – Integrating expert opinion and traditional ecological knowledge for freshwater invasive alien species prevention and management: *Corbicula* in Eastern Europe as a model

15:30 – 15:45 **Marika Galanidi, Argyro Zenetos, Elissavet Gavriil, Paraskevi K. Karachle** – Stakeholder perceptions on marine alien species impacts towards the preparation of citizen science campaigns

15:45 – 16:00 **Anna E. Latsiou, Olga Christopoulou, Maria Th. Stoumboudi** – Fishers' opinions and attitudes concerning the alien fish species inhabiting the transboundary Lake Prespa

16:00 – 16:30 **Coffee and tea**

## Session 3

**Chairs: Naime Arslan, Bojan Simovski**

### **Topic 5: Invasive alien species prevention and management**

16:30 – 16:45 **Bella Japoshvili, Levan Mumladze, Tatsiana Lipinskaya, Aleh Sinchuk, Helen Gajduchenko, Nina Balashenko** – First DNA–barcoding based records of new alien freshwater species in Georgia

16:45 – 17:00 **Roxana Ciceoi, Adriana Radulovici** – Invasive alien arthropods from Romania: First DNA barcodes

17:00 – 17:15 **Esra Per** – What is the next step for the Rose-ringed Parakeet in Turkey?

17:15 – 17:30 **Deniz İnci, Feyza Aykan, Semih Altay, Nurullah Çelen, Kassim Al-Khatib, Ahmet Uludağ** – Can fleabanes (*Erigeron* spp., Asteraceae) become detrimental alien plants worldwide?

17:30 – 17:45 Discussions

17:45 – 19:00 **Poster session**

## 4 September 2019

### Conference Hall 'Astor'

#### Session 4

Chairs: Katarina Zorić, Ahmet Uludağ

#### Keynote presentation 5

09:00 – 09:30 **Yuriy Kvach** – Oceanisation of the Black Sea fish fauna

#### Keynote presentation 6

09:30 – 10:00 **Daniel P. Molloy** – An international collaborative project documenting the parasites of *Dreissena* spp. mussels throughout Eurasia

#### Topic 5: Invasive alien species prevention and management

10:00 – 10:15 **Ali Serhan Tarkan, Baran Yoğurtçuoğlu, F. Güler Ekmekçi, Stacey A. Clarke, Louisa E. Wood, Lorenzo Vilizzi, Gordon Copp** – First application of the European Non-native Species in Aquaculture Risk Analysis Scheme (ENSARS) in Turkey for the farmed non-native fish, striped catfish *Pangasianodon hypophthalmus*

10:15 – 10:45 Coffee and tea

### Conference Hall 'Astor' (Parallel sessions)

#### Session 5

Chairs: F. Güler Ekmekçi, Noé Ferreira-Rodríguez

#### Topic 1: Invasive alien species traits and trends

10:45 – 11:00 **Naime Arslan, Belgin Çamur-Elipek, Deniz Mercan** – Distribution of the invasive amphipod species *Pontogammarus robustoides* (Sars, 1894) in the inland waters of Turkey

11:00 – 11:15 **Natalie Dzyziuk, Ihor Dykyy, Yuriy Kvach** – Parasite community of the invasive Chinese sleeper (*Perccottus glenii*) in the western Ukraine

11:15 – 11:30 **Nina Vancheva, Aneliya Bobeva, Luchezar Pehlivanov, Tihomir Stefanov, Stefan Kazakov, Boyko B. Georgiev** – Alien parasites on an alien host species: the monogeneans *Ligictaluridus pricei* and *Gyrodactylus nebulosus* from *Ameiurus melas* in the Srebarna Biosphere Reserve, Bulgaria

11:30 - 11:45 **Mustafa Zengin, Murat Dağtekin, İlkay Ö. Akpınar** – Biological traits of invasive silver Prussian carp (*Carassius gibelio* Bloch, 1782) in Lake Çıldır, North-Eastern Anatolia, Turkey

#### Topic 3: The Danube River as invasive alien species corridor

11.45 – 12:00 **Dimitriy Dashinov, Eliza Uzunova** – Temporal and body size-dependent variation in the diet composition of the round goby *Neogobius melanostomus* (Pallas, 1814) in the Lower Danube River tributaries, Bulgaria

## Topic 7: Other topics

12:00 – 12:15 **Belda Erkmen, Aysel Çağlan Günal, M. Zeki Yildirim, Elif Paçal, Figen Erkoç** – Invertebrate model organisms in ecotoxicology research

12:15 – 12:30 Discussions

12:30 – 13:30 **Lunch break**

## Session 6

**Chairs: Bella Japoshvili, Yuriy Kvach**

### Topic 1: Invasive alien species traits and trends

13:30 – 13:45 **Lale Gençoğlu, Şerife Gülsün Kırankaya, F. Güler Ekmekçi** – Age and growth of native and translocated populations of the marine fish *Atherina boyeri* Risso, 1810, in Turkey

13:45 – 14:00 **Deniz Innal, Mehmet Aksu, Iskender Gülle, Muzaffer Düğel** – Spatial and temporal characterisation of alien and native fish assemblages in the Manavgat River Estuary (Antalya, Turkey)

14:15 – 14:30 **Deniz Innal, Berat Tocan, Iskender Gülle, Duygu Ceren Çağlan, Muzaffer Düğel, Dursun Avşar** – Diversity and distribution of alien and native fish species in the Göksu River Estuary (Mersin, Turkey) in relation to some water quality parameters

14:30 – 14:45 **Madona Varshanidze, Eteri Mikashavidze, Guranda Makharadze** – Invasive alien species inhabitants of the Black Sea Coast of Georgia

14:45 – 15:00 **Hacer Saglam, Ertug Duzgunes** – Variations in the population parameters of invasive Rapa whelk stocks since three decades in the Black Sea, Turkey

15:00 – 15:15 **Nihal Ozderya, Ertug Duzgunes, Hacer Saglam** – A preliminary research on imposex in Rapa whelk (*Rapana venosa* Val., 1846) population in the Eastern Black Sea, Turkey

### Topic 4: Invasive alien species impact

15:15 - 15:30 **Deniz Innal, Daniela Giannetto** – Occurrence of the invasive Eastern Mosquitofish (*Gambusia holbrooki* Girard, 1859) in four Mediterranean river estuaries of Turkey, nursery habitats for several native and threatened species

15:30 – 16:00 **Coffee and tea**

## Session 7

**Chairs: Suzana Patceva, Simeon Lukanov**

### Topic 4: Invasive alien species impact

16:00 – 16:15 **Saniye Cevher Özeren** – General evaluation of the impact of invasive fish species on native freshwater fish fauna in Turkey

16:15 – 16:30 **Pınar Arslan, Saniye Cevher Özeren** – The impact of *Pseudorasbora parva* (Risso, 1810) on the fish fauna of Lake Mogan (Ankara, Turkey)

### Topic 7: Other topics

- 16:30 – 16:45 **Sasho Trajanovski, Biljana B. Gjoreska, Sonja Trajanovska, Konstantin Zdraveski, Teodora Trichkova** – Biodiversity, endemism and presence of alien and invasive species in the benthic fauna of Lake Prespa (2016–2017)
- 16:45 – 17:00 **Biljana Rimcheska, Yanka Vidinova** – Assessing the risk of distribution and spread of invasive and alien species – a future of the conservation of hilly-mountainous referent watercourses
- 17:00 – 17:15 **Mehmet Zeki Yildirim, Mustafa Emre Gürlek, Aysel Çağlan Günel** – *Dreissena* species in Turkey
- 17:15 – 17:30 **Mustafa Zengin, Taner Yıldız, İlkay Ö. Akpınar, Uğur Uzer, Saadet F. Karakulak** – Abundance and distribution of round goby (*Neogobius melanostomus*) population in the Southern Black Sea Coast
- 17:30 – 17:45 Discussions

### Conference Hall ‘Aqualina’ (Parallel sessions)

#### Session 8

**Chairs: Stanislava Lazarevska, Rumen Tomov**

#### Topic 1: Invasive alien species traits and trends

- 10:45 – 11:00 **Roxana Ciceoi, Minodora Gutue** – Updated list of host plants of tomato leafminer, *Tuta absoluta* (Meyrick) (Lepidoptera: Gelechiidae). Is there any threat to biodiversity?
- 11:00 – 11:15 **Rumen Tomov** – New data on the distribution of some alien insect species in Bulgaria

#### Topic 4: Invasive alien species impact

- 11:15 – 11:30 **Sanja Radonjić, Snježana Hrnčić** – Overview of the arthropod pests of citrus tree fruits in Montenegro

#### Topic 7: Other topics

- 11:30 - 11:45 **Meliha Merve Hiz, Gülsüm Akkuş, Begüm Dermenci** – Evaluation of chromosome abnormalities in human blood lymphocytes caused by extracts of *Rhamnus catharticus*
- 11:45 – 12:00 **Meliha Merve Hiz, Gülsüm Akkuş, Begüm Dermenci, Sibel Oymak** – Evaluation of chromosome abnormalities in human blood lymphocytes induced by various ratios of *Chrysanthemum cinerariifolium* and *Matricaria recutita* extracts
- 12:00 – 12:15 **Serhat Kaya, Gülsüm Akkuş, Serenay Türkdöğän, Bülent Gündüz** – Influence of *Helichrysum arenarium* on haemocytes and encapsulation-melanisation immune responses of model organism *Galleria mellonella*
- 12:15 – 12:30 Discussions

12:30 – 13:30 **Lunch break**

## Session 9

**Chairs: Božena Mitić, Vladimir Vladimirov**

### **Topic 1: Invasive alien species traits and trends**

13:30 – 13:45 **Blagoj Nikolov, Bojan Simovski** – Distribution of the invasive alien species *Ailanthus altissima* (Mill.) Swingle in the Bregalnica Region, North Macedonia

13:45 – 14:00 **Blagoj Nikolov, Bojan Simovski** – Morphoecological features of *Ailanthus altissima* (Mill.) Swingle in the Bregalnica Region, North Macedonia

### **Topic 4: Invasive alien species impact**

14:15 – 14:30 **Meliha Merve Çiçekliyurt, Mine Akkaya** – Determination of the amount of allergic pollen in the atmosphere in Çanakkale, Turkey

### **Topic 6: Management and sharing of IAS data**

14:30 – 14:45 **Bojan Simovski, Blagoj Nikolov** – Global Register of Introduced and Invasive Species – Macedonia, Version 1.1: An overview of the woody plants

### **Topic 7: Other topics**

14:45 – 15:00 **Ayşe Yazlık, Neval Güneş Özkan, Khawar Jabran** – Distribution of *Heracleum* species in different habitat types in Düzce, Turkey

15:00 – 15:15 **Eda Günay, Gamze Baltacıer, Müge Teker, Okan Acar** – Effects of rosehip fruit extract in two wheat varieties after herbicide application

15:15 – 15:30 Discussions

15:30 – 16:00 **Coffee and tea**

17:45 – 18:30 **Poster session**

20:00 **Conference dinner**

## **5 September 2019**

### **Conference Hall 'Astor'**

09:30 – 10:30 **Joint ESENIAS and DIAS Meeting**

10:30 – 11:00 **Coffee and tea**

11:00 – 12:00 **Joint ESENIAS and DIAS Meeting (Cont.)**

12:00 – 14:00 **Lunch break**

17:30 – 19:30 **Guided tour in Ohrid Town**

## **6 September 2019**

10:00 – 20:00 **Conference excursion**



# POSTERS

## Topic 1: Invasive alien species traits and trends

- P1.01: Antoaneta Petrova, Vladimir Vladimirov** – Reports of some ornamental plants as aliens for the Bulgarian flora
- P1.02: Bojan Konstantinović, Nataša Samardžić, Milena Popov, Strahinja Šabović** – Soil seed reserves of invasive weed species in two protected areas of the Autonomous Province of Vojvodina, Serbia
- P1.03: Dejan Dimidzievski, Konstantin Zdraveski, Kliment Nanev, Hristina Kuzmanoska, Andon Bojadzi** – Occurrence of the box tree moth *Cydalima perspectalis* (Walker, 1859) in Mountain Galicica
- P1.04: Deniz İnci, Çağnur Çam, Hatice Karazeybek, Necmi Aksoy, Ahmet Uludağ** – Taxonomy and spread of the alien fleabane species, *Erigeron* spp. (Asteraceae) in Turkey
- P1.05: Diana Vlahović, Dario Hruševar, Filip Varga, Dalibor Vladović, Božena Mitić** – Invasive alien flora of the Zagreb County (Croatia) – spatial distribution and potential spread
- P1.06: Dimitar Kozuharov, Teodora Trichkova, Ivan Botev** – Interactions between two invasive mussels *Dreissena polymorpha* and *Corbicula fluminea* in Negovan sand-pit lake, Bulgaria
- P1.07: Florina Stănescu, Marian Tudor, Laurențiu Rozyłowicz, Dan Cogălniceanu** – Alien vertebrates in Romania – a review
- P1.08: Georgi Popgeorgiev, Simeon Lukanov, Miroslav Slavchev, Yurii Kornilev, Kostadin Andonov, Nikolay Natchev** – Distribution update for the invasive Pond Slider (*Trachemys scripta*) in Bulgaria with possible successful breeding in the wild
- P1.09: Hristina Kuzmanoska, Dejan Dimidzievski, Konstantin Zdraveski, Kliment Nanev, Andon Bojadzi** – Invasive alien species in National Park Galicica, North Macedonia
- P1.10: Igor Abramyuk, Natalia Tymoshenko, Olena Hupalo** – Ecological traits of invasive alien species *Lepomis gibbosus* in the water bodies of Kiev Region, Ukraine
- P1.11: İlknur Yildiz, Ali Muzaffer Feyzioğlu** – *Oithona davisae* (Ferrari F. D. & Orsi, 1984), new invader for South Eastern Black Sea Coast: Invasion history and present situation
- P1.12: Ionela Dobrin, Valentin Marius Ciontu** – *Metcalfa pruinosa* Say, 1830 (Homoptera: Flatidae), an established alien species in continuous expansion in Romania
- P1.13: Ionela Dobrin, Violeta Husariu, Roxana Ciceoi** – *Vanessa cardui* (Lepidoptera: Nymphalidae) – migratory behaviour induced by recent climate changes or just a seasonal migration shift
- P1.14: Kliment Nanev, Konstantin Zdraveski, Dejan Dimidzievski, Hristina Kuzmanoska, Andon Bojadzi** – Are there records of the horse chestnut leaf miner *Cameraria ohridella* (Deschka & Dimic, 1986) on other host plants in Mountain Galicica?
- P1.15: Lali Murvanidze, Tsitsino Lomidze, Ketevan Nikolaishvili, Lela Arabuli, Keto Davitaia, Ketevan Asatiani** – Ecological peculiarities of the helminth fauna of invasive *Carassius gibelio* (Bloch, 1782) from Madatapa and Khanchali lakes (Javakheti Wetlands, South Georgia)
- P1.16: Larysa Samchyshyna, Yulia Gromova, Kateryna Zorina-Sakharova** – Recent records of the brackish copepod *Eurytemora velox* (Lill.) in Ukrainian rivers

- P1.17: Ligita Baležentienė** – Assessment of some invasive species photosynthetic adaptation to new habitat environment using closed chamber system
- P1.18: Mariana Prokopuk, Lesya Zub** – Regional peculiarities of the ecology of *Elodea* in Eastern Europe on the example of water ecosystems of Ukraine
- P1.19: Marina Talevska, Sonja Trajanovska** – Changes in distribution of *Elodea canadensis* in Lake Ohrid in the period 2000–2016
- P1.20: Mihails Pupins, Volodymyr Tytar, Oksana Nekrasova, Andris Ceirans** – Modelling co-occurrence patterns of the invasive Pond Slider (*Trachemys scripta*) and the native European Pond Turtle (*Emys orbicularis*) in Europe
- P1.21: Nikolay Simov, Snejana Grozeva** – Mass aggregations of four invasive alien species of Hemiptera on *Hibiscus syriacus* in Sofia, Bulgaria
- P1.22: Oksana Nekrasova, Volodymyr Tytar** – Distribution of *Harmonia axyridis* (Pallas, 1773) (Coleoptera: Coccinellidae) in Ukraine
- P1.23: Teodora Trichkova, Milcho Todorov, Ivan Botev, Sasho Trajanovski, Konstantin Zdraveski, Trajce Talevski, Zoran Spirkovski** – Inventory of alien fish species in Lake Ohrid catchment in 2016
- P1.24: Valeri Georgiev, Sonya Tsoneva, Lyubomir Kenderov, Teodora Trichkova, Milcho Todorov, Vladimir Vladimirov** – Distribution of *Elodea nuttallii*, an invasive alien species of EU concern, in Bulgaria
- P1.25: Vladimir Vladimirov** – First record of *Humulus japonicus* (Cannabaceae) in the Bulgarian flora
- P1.26: Vladimir Vladimirov, Antoaneta Petrova, Zhivko Barzov, Zigmantas Gudžinskas** – The alien species of *Heracleum* (Apiaceae) in the Bulgarian flora revisited
- P1.27: Volodymyr Tytar** – Bioclimatic modelling of the distribution of the brown marmorated stink bug, *Halyomorpha halys* (Stål, 1855), with special reference to Ukraine
- P1.28: Volodymyr Tytar, Leonid Fedorenko** – Modelling the distribution and habitat associations of the monkey goby, *Neogobius fluviatilis* (Pallas, 1814) (Actinopterygii, Gobiiformes) in Europe
- P1.29: Yuriy Lykholat, Anna Alexeyeva, Nina Khromykh, Tatyana Lykholat** – Modelling the invasiveness of *Tilia platyphyllos* in urban ecosystems in conditions of climate change
- P1.30: Oxana Munjiu, Igori Şubernetkii, Nadejda Andreev, Nadejda Railean, Ion Toderas** – New data on the invasive species *Sinanodonta woodiana* (Lea, 1834) (Bivalvia, Unionidae) on the territory of the Republic of Moldova

## Topic 2: Vectors and pathways for invasive alien species introductions

- P2.01: Igor V. Davydenko, Oksana V. Manturova, Oleksandr L. Savytskyy, Ganna O. Boyko** – Potential pathways of invasive plant species distribution in the water bodies of Ukraine
- P2.02: Lidija Velkova-Jordanoska** – Intentional introduction of non-native fish species in the Republic of North Macedonia: benefits and consequences
- P2.03: Mihails Pupins, Yuriy Kvach, Iuliia Kutsokon, Arturs Skute, Andris Ceirans** – Pond aquaculture as a pathway of introduction and spread of *Perccottus glenii* in Latvia: current status and proposed prevention measures

### Topic 3: The Danube River as invasive alien species corridor

- P3.01:** Ana Anđelković, Milica Živković, Dušanka Cvijanović, Maja Novković, Sava Vrbničanin, Snežana Radulović, Danijela Pavlović – Invasibility of different habitat types in riparian areas of Serbia
- P3.02:** Ana Atanacković, Katarina Zorić, Jelena Tomović, Marija Ilić, Bojana Tubić, Bela Csányi, Momir Paunović – Invading the Danube River: range extension of Ponto-Caspian polychaete *Manayunkia caspica* Annenkova, 1929
- P3.03:** Ana Atanacković, Katarina Zorić, Božica Vasiljević, Marija Ilić, Bela Csanyi, Momir Paunović – New records of the tropical aquatic worm *Branchiodrilus* (Clitellata, Naididae) in the Danube River
- P3.04:** Katarina Zorić, Ana Atanacković, Marija Ilić, Bela Csanyi, Momir Paunović – Invasive spiny-cheek crayfish *Orconectes limosus* (Rafinesque, 1817) invades new areas in the Danube River Basin in Serbia
- P3.05:** Milcho Todorov, Ivan Botev, Zdravko Hubenov, Marian Kenderov, Teodora Trichkova – JDS4 preliminary results on the distribution of invasive alien species in the Bulgarian sector of the Danube River
- P3.06:** Vesna Djikanović, Stefan Skorić, Branislav Micković – Analyses of intestinal content of round goby *Neogobius melanostomus* (Pallas, 1814) in the Serbian part of the Danube River Basin

### Topic 4: Invasive alien species impact

- P4.01:** Anzhelika Sylaieva, Alexander Protasov, Alexander Tsybulskiy – Biological invasions in cooling-ponds of nuclear power plants
- P4.02:** Constantina Chireceanu, Marioara Pușcalău, Teodor Podrumar, Andrei Teodoru, Andrei Chiriloaie-Palade – Invasive insect species detected on grapevine in Romania in 2016–2018
- P4.03:** Dzung Trung Le – Impact of invasive animals on the species diversity and abundance of invaded communities
- P4.04:** Emine Demir, Hülya Ünver – The alien Auchenorrhyncha (Insecta: Hemiptera) species to Turkey: their known and potential impact on agriculture lands
- P4.05:** Esra Per – Understanding the impact of exotic parrots on human health: A reply to Oymak et al. (2017)
- P4.06:** Levent Efil, Alexander G. Kirejtshuk, Berrin Alaca, Figen Efil – *Phenolia picta* (Coleoptera: Nitidulidae): A new pest on strawberries and its damages in the Çanakkale Province of Turkey
- P4.07:** Marko Ozura, Ivana Cordasev, Lara Matejic, Mihael Krpeljevic, Zrinka Mateskovic – Growth and growth analysis of the tree of heaven, *Ailanthus altissima* (Mill.) Swingle, in the city of Karlovac, Croatia
- P4.08:** Nataliia Miroshnyk – Alien species in city park ecosystems of Kiev, Ukraine
- P4.09:** Oleh Marenkov – Aquarium mollusks of the family Thiaridae as a biological hindrance for the operation of the cooling pond of Zaporizhzhya Nuclear Power Plant
- P4.10:** Şerife Gülsün Kırankaya, Erdinç Aydın, Lale Gençoğlu, Murat Arslan – Patterns in catch per unit effort of non-native gibel carp and native fish species in three natural lakes in Sakarya, Turkey
- P4.11:** Sretko Milanovici, Oana-Viorica Danci – Wetland forests in lower Mureş River Basin (Arad County, Romania) strongly affected by the American maple (*Acer negundo*)

## Topic 5: Invasive alien species prevention and management

- P5.01: Ana-Cristina Fătu, Gabriel Cardaş, Constantin Ciornei, Ana-Maria Andrei** – Experimental field application of *Beauveria bassiana* Bals. Vuill. for control of the invasive sawfly *Aproceros leucopoda* Takeuchi, 1939, in Romania
- P5.02: Jodey Peyton, Oliver Pescott, Ian Winfield, Kelly Martinou, Hannah Dean, Biren Rathod, Owen Mountford, Kath Turvey, Monica Demetriou, Helen Roy** – Horizon scanning for invasive alien species in Sovereign Base Areas in Cyprus
- P5.03: Marga Grădilă, Daniel Jalobă** – Management measures for *Veronica persica* Poir., an invasive weed in rape crops in south-eastern Romania
- P5.04: Mihails Pupins, Yuriy Kvach, Arturs Skute, Oksana Nekrasova, Andris Ceirans, Iuliia Kutsokon** – Invasive hydrobionts *Perccottus glenii* and *Trachemys scripta elegans* in Latvia: updated distribution, management strategy, and perspectives
- P5.05: Rumen Tomov, Elena Tsvetkova, Hristina Bancheva-Preslavska, Hristina Stefanova, Galin Milchev** – Contribution of the project ‘State and perspectives of citizen science for invasive alien species in Bulgaria’ to implementation of COST Action CA 17122 (Alien CSI)
- P5.06: Svetlana Aladjem, Dimitrina Boteva, Vasil Petrov** – Collaborative management for conservation of forest and grassland habitats affected negatively by IAS in Bulgaria under LIFE16NAT/BG/000856 IAS Free Habitats Project
- P5.07: Teodora Trichkova, Violeta Tyufekchieva, Milcho Todorov, Vladimir Vladimirov, Roumen Kalchev, Hristina Kalcheva, Ivan Botev, Kostadin Ignatov, Marian Kenderov** – Increasing understanding of alien species through citizen science (Alien CSI): Approaches to citizen science, data management and standards in Bulgaria
- P5.08: Tomas Gorner** – Invasive alien species of Union concern in the Czech Republic
- P5.09: Vladimir Vladimirov, Teodora Trichkova, Rumen Tomov** – Towards an early warning system for invasive alien species in Bulgaria

## Topic 6: Management and sharing of IAS data

- P6.01: Nataliia Pashkevych, Liudmyla Lysohor, Liubov Gubar** – Preliminary list of selected ornamental plants in the Information system of alien plant species in Ukraine
- P6.02: Teodora Trichkova, Rumen Tomov, Ivan Botev, Yordan Koshev, Simeon Lukanov, Nedko Nedyalkov, Tihomir Stefanov, Milcho Todorov** – National reporting on the invasive alien animal species of European Union concern in Bulgaria
- P6.03: Vladimir Vladimirov, Valeri Georgiev** – National reporting of Bulgaria about the invasive alien plants of EU concern

## Topic 7: Other topics

- P7.01: Biljana Budzakoska Gjoreska, Sasho Trajanovski, Sonja Trajanovska, Teodora Trichkova** – Distribution and abundance of *Theodoxus fluviatilis*, a species with low invasive potential in Lake Ohrid and its watershed
- P7.02: Eda Günay, Gamze Baltacıer, Müge Teker, Okan Acar** – Antimicrobial activity in a drought tolerant lentil variety under some stress conditions
- P7.03: Eda Günay, Nurcihan Hacıoğlu Dođru, Gamze Baltacıer, Okan Acar** – Effects of broomrape and drought stress on antimicrobial activity of drought sensitive lentil variety

- P7.04: Elizabeta Veljanoska-Sarafiloska, Suzana Patceva, Lence Lokoska** – Water quality of Lake Ohrid according to physical, chemical and biological parameters, in 2010
- P7.05: Emek Koçak, Müge Özcan, Mükremin Tat, Hüseyin Saçma** – The effect of *Nerium oleander* extract on *Meloidogyne* spp. on *Cucumis sativus*
- P7.06: Fethi Ahmet Öner** – Use of *Bacopa monnieri* (Plantaginaceae) to purify waste water
- P7.07: Hristina Kalcheva, Anita Kiss, Maria Dinka, Árpád Berczik, Roumen Kalchev, Edit Ágoston-Szabó** – Crustacean zooplankton diversity and relations with bacterioplankton, chlorophyll-a, macrophytes and abiotic factors in two wetlands of the Middle Danube River, Hungary
- P7.08: Lence Lokoska, Elizabeta Veljanoska-Sarafiloska** – Microbiological and chemical aspects of the water quality in Lake Ohrid in 2016
- P7.09: Okan Acar, Eda Günay, Müge Teker** – The roles of antioxidant enzymes in some lentil varieties under the broomrape infection and drought stress
- P7.10: Sonja Trajanovska, Marina Talevska, Biljana Budzakoska Gjoreska, Sasho Trajanovski** – Anthropogenic pressure triggered changes in Charophyta composition in Lake Ohrid and its watershed
- P7.11: Stanislava Lazarevska, Vesna Krsteska, Sterja Nacheski** – *Amphicerus bimaculatus* (Olivier, 1790) on vine grape in the Republic of North Macedonia
- P7.12: Suzana Patceva, Jovica Leshoski** – Spatial and temporal distribution of phytoplankton in Lake Prespa, Republic of North Macedonia, in 2014–2016
- P7.13: Tatyana Lykholat, Olena Lykholat** – Potential hazard of estrogen bioaccumulation in *Procambarus virginalis* for water biota and aquatic culture consumers in the Dnipro River, Ukraine
- P7.14: Tetiana Grabovska, Natalia Shushkivska** – The role of *Harmonia axyridis* in the Coccinellidae complex in forest-steppe agrolandscapes in Ukraine
- P7.15: Violeta Tyufekchieva, Milcho Todorov, Ivan Botev, Sasho Trajanovski, Konstantin Zdraveski, Lyubomir Kenderov, Yanka Vidinova, Teodora Teofilova, Desislava Stoianova, Stefan Stoichev, Teodora Trichkova** – Inventory of benthic macroinvertebrates in Lake Ohrid catchment in 2016