

## PROGRAM IAA 23

### Sunday, 19 June, 2022

17:00 – 20:00 Registration, hotel Štekl, Hluboká nad Vltavou

20:00 Welcome drink, hotel Štekl, Hluboká nad Vltavou

### Monday, 20 June, 2022

7:30 – 8:45 Registration, Aleš South Bohemian Gallery, Hluboká nad Vltavou

9:00 – 9:30 IAA23 Opening ceremonies

9:30 – 10:00 **Session: Conservation and Management**      **Chairman: Pavel Kozák**  
**Sture Abrahamsson lecture**  
**Julian Reynolds:** How safe is an island arksite? The example of crayfish in Irland

10:00 – 10:20 **Stefan Auer:** On the development of a supra-regional management tool for the protection and conservation of native freshwater crayfish (*Austropotamobius torrentium*, *Astacus astacus*) in the federal state of Upper Austria

10:20 – 10:40 **Ivana Maguire:** How well protected areas safeguard noble crayfish and stone crayfish in Croatia?

10:40 – 11:10 **Coffee break**

11:10 – 11:30 **Session: Conservation and Management**      **Chairman: Lennart Edsman**  
**Ismael Soto Almena:** Spatio-temporal effects of alien crustaceans on compositional and functional B-diversity in Europe

11:30 – 11:50 **Japo Jussila:** Crayfisheries policies and practices- the European case

11:50 – 12:10 **Miloš Buřič:** No way to get it out: the vain fight with signal crayfish in a small stream

12:10 – 12:30 **Daniela Ghia:** Sterilised female pheromones do not affect male reproductive behaviour in an invasive crayfish species (*Pacifastacus leniusculus*)

12:30 – 13:30 **Lunch, hotel Štekl**

13:35 – 13:55 **Session: Biogeography**      **Chairman: Antonín Kouba**  
**Lucian Pârvulescu:** Towards real-time global mapping of crayfish species and crayfish plague occurrence

13:55 – 14:15 **Anita Tarandek:** Characteristics of stone crayfish populations along a disturbance gradient- a case study of Kustosak stream, Croatia

14:15 – 14:35 **Jiří Patoka:** The current status of crayfish Indonesia

14:35 – 14:55 **Brooke Grubb:** Crayfish diversity within the Tennessee River drainage: A reassessment using molecular phylogenetics

14:55 – 15:25 **Coffee break – poster session**

15:25 – 15:45 **Session: Genetics**      **Chairman: Frédéric Grandjean**  
**Christelle Rutz:** Diversification and importance of repetitive elements in Decapod genomes

- 15:45 – 16:05 **Lena Bonassin:** Cytogenomic investigation of repetitive elements in the family Astacidae
- 16:05 – 16:25 **Licia Colli:** Molecular variability of white-clawed crayfish *Austropotamobius pallipes* species complex populations of the Italian north-western Apennines assessed through mitochondrial DNA sequencing and high-throughput genotyping-By-sequencing
- 16:25 – 16:45 **Leona Lovrenčić:** Genetic data and species distribution modelling highlight the vulnerability of the stone crayfish in Croatia
- 16:45 – 17:05 **Sina Tönges:** Location-dependent DNA methylation signatures in a clonal invasive crayfish
- 17:15 – 19:15 Board meeting, Regent's hall, hotel Štekl
- 19:30 Fencing performance in the Hotel Štekl

## **Tuesday, 21 June, 2022**

- Session: Invasive Species      Chairman: James Stoeckel**
- 8:30 – 9:00 **Frank Lyko:** Origin and propagation of the marbled crayfish
- 9:00 – 9:20 **András Weiperth:** Distribution of Decapods in Hungary: present status, distribution and the impacts of the non-native crayfish, crabs and shrimps to the colonised ecosystems
- 9:20 – 9:40 **Fabio Ercoli:** Marbled crayfish (*Procambarus virginalis* Lyko, 2017) invasion strategies in Estonian freshwater ecosystem
- 9:40 – 10:00 **Antonín Kouba:** Comparison of marbled crayfish with other prominent crayfish invaders under two temperatures
- 10:00 – 10:30 **Coffee break**
- Session: Ecology and Biology      Chairman: Christopher Taylor**
- 10:30 – 10:50 **Sandra Hudina:** The use of bioenergetic population models in risk assessment and management of invasive crayfish species
- 10:50 – 11:10 **Kaelyn Fogelman:** Investigating the physiological basis for thermal tolerance in crayfish
- 11:10 – 11:30 **Kayla Boyd:** Investigating the linkages of physiology, behavior, and acute thermal stress in crayfish with varied burrowing strategies
- 11:30 – 11:50 **Areeba Khan:** Impact of short-term pH change on anti-predatory behaviour and anxiety-like behaviour of crayfish: a comparative study
- 11.50 – 12.10 **Jean-Yves Georges:** When reintroduction turns to invasion: a fable about turtles and crayfish
- 12:10 – 13:10 **Lunch, hotel Štekl**
- Session: Diseases and Pathogens      Chairman: Javier Diéguez Uribeondo**
- 13:15 – 13:35 **Ljudevit Luka Boštjančić:** A metatranscriptomic approach to studying the RNA virosphere of freshwater crayfish

- 13:55 – 14:15 **Gialuca Fea:** Evaluation of microsporidia spreading in Italian white-clawed crayfish population
- 14:15 – 14:35 **Francisco Javier Oficialdegui:** Chytridiomycosis and crayfish: more than a double threat to amphibian conservation
- 14:35 – 14:55 **Gloria Casabella Herrero:** Host preference in the genus *Aphanomyces*
- 14.55 – 15:25 **Coffee break - poster session**
- 15:25 – 15:45 **Session: Diseases and Pathogens**      **Chairman: Ivana Maguire**  
**Laura Martin-Torrijos:** Chasing the crayfish plague to the southeastern United States
- 15:45 – 16:05 **Caterina Francesconi:** Exploring *Aphanomyces astaci*'s virulence: variability and genomic determinants
- 16:05 – 16:25 **Maud Laffitte:** Two new invaders in freshwater ecosystems in France: the rusty crayfish *Faxonius rusticus* (Girard, 1852) and its plague agent
- 16:25 – 16:45 **Pavel Kozák:** Prevention of vertical transmission of crayfish plague: Is the production of crayfish plague-free juveniles from infected females possible?
- 18:00 Departure to the **Budweiser Budvar brewery**  
[Bus parking Hluboká nad Vltavou](#)

### **Wednesday, 22 June, 2022**

- 8:00 Departure from [bus parking](#) to **Faculty of Fisheries and Protection of Waters, Vodňany**
- 8:30 – 9:30 **Genetics Fisheries Center of FFPW**
- 10:00 – 11:00 **Experimental Fish Culture and Facility of FFPW**
- 12:00 – 14:00 **Lunch**
- 15:20 Departure to Hluboká nad Vltavou
- 16:20 I. group – Tour of the Castel Hluboká nad Vltavou
- 16:30 II. group – Tour of the Castel Hluboká nad Vltavou

### **Thursday, 23 June, 2022**

- 8:30 – 9:00 **Session: Diseases and Pathogens**      **Chairman: Javier Diéguez Uribeondo**  
**Adam Petrusek:** Advances in crayfish plague research: what did we learn from application of molecular tools?
- 9:00 – 9:20 **Tobia Pretto:** Strategies to monitor *Aphanomyces astaci* in North-western Apennine in *Austropotamobius pallipes* complex population
- 9:20 – 9:40 **Ana Bielen:** Crayfish plague pathogen *Aphanomyces astaci*: from non-destructive monitoring to ecology and sustainable control methods
- 9:40 – 10:00 **María Martínez Ríos:** Resistance to crayfish plague: assessing the response of native Iberian populations of the white-clawed freshwater crayfish
- 10:00 – 10:30 **Coffee break - poster session**
- 10:30 – 10:50 **Session: Conservation and Management**      **Chairman: Elena Tricarico**  
**Erin Allison:** Project crawdad: an educational outreach program in the Appalachian coalfields

- 10:50 – 11:10 **Bailey O’Brian:** Evaluation of Pet Trade Regulation for Management of Invasive Crayfish in Midwestern States
- 11:10 – 11:30 **Kathleen Quebedeaux:** Developing a toolkit for conserving a rare, endemic crayfish (*Cambarus causeyi*)
- 11:30 – 11:50 **Jim Stoeckel:** Linking laboratory and pond studies to evaluate control techniques for red swamp crayfish in surface waters and burrows.
- 11:50 – 12:10 **Vit Kukulja:** Eradication attempt of invasive spiny cheek crayfish *Faxonius limosus* (Rafinesque, 1817) in gravel pits near Ptuj, Slovenia
- 12:10 – 13:10 **Lunch, hotel Štekl**
- 13:15 – 13:35 **Session: Ecology and Biology**                      **Chairman: Lucian Pârvolescu**  
**Golara Kor:** Ultrastructural and biometrical features of the antenna in six crayfish species
- 13:35 – 13:55 **Lennart Edsman:** What is this? A strangely coloured Swedish Signal crayfish or an alien Marbled crayfish?
- 13:55 – 14:15 **Zackary Graham:** The evolution of life history traits and burrowing in crayfishes
- 14:15 – 14:35 **Pavel Vlach:** Fecundity of stone crayfish in Czechia: egg number, size and mortality
- 14:35 – 14:55 **Bram Koese:** Can we count on birds? A study on the diet of the great crested grebe (*Podiceps cristatus*) at an invasive crayfish hotspot
- 14.55 – 15:25 **Coffee break - poster session**
- 15:25 – 15:45 **Session: Ecology and Biology**                      **Chairman: James Furse**  
**Caitlin Bloomer:** Response of Burrowing Crayfish Species to Land Management Practices in Missouri, USA
- 15:45 – 16:05 **Christopher Taylor:** Resource use by the slenderwrist crayfish, a narrowly endemic primary burrowing crayfish in Arkansas, USA
- 16:05 – 16:25 **Tanya Khan:** Seasonal Microhabitat Use by Brawleys Fork Crayfish, *Cambarus williami*, a Tennessee State Protected Species
- 16:25 – 16:45 **Premek Hamr:** The life history of the Rusty Crayfish (*Faxonius rusticus*) in small southern Ontario
- 16:45 – 17:05 **Susie Adams:** Sea level rise, storm surges, and the fate of the Banded Mudbug (*Lacunicambarus freudensteini*), a primary burrowing crayfish near the Gulf of Mexico, USA
- 17:05 – 17:15 The crayfish tale - An educational video (Theissinger Kathrin)
- 19:00 – 23:00 **Official dinner, hotel Štekl**

## **Friday, 24 June 2022**

- Session: Ecology and Biology**                      **Chairman: Jiří Patoka**  
8:30 – 9:00                      **Thomas Breithaupt:** Scent of sex and death. An exploration of the chemosensory world of crayfish
- 9:00 – 9:20                      **Dusty Swedberg:** Sampling in hard to sample habitats, a case study for assessing the status of a rare, swamp inhabiting crayfish in Illinois, USA
- 9:20 – 9:40                      **Miguel Clavero:** From a renaissance royal whim to our beloved native crayfish: How the Italian crayfish become a conservation priority in Spain
- 9:40 – 10:00                      **James Furse:** The 2019-2020 Australian bushfires and genus *Euastacus*: what do we know 2 years later?
- 10:00 – 10:30                      **Coffee break**
- Session: Invasive Species**                      **Chairman: Susane Adams**  
10:30 – 10:50                      **Takudzwa Comfort Madzivanzira:** Freshwater crayfish introduction in Africa
- 10:50 – 11:10                      **Thomas Baudry:** Impacts of a super-invader, the invasive crayfish *Cherax quadricarinatus*, on riverine ecosystems: evidence from stable isotope analysis in Martinique
- 11:10 – 11:30                      **Elena Tricarico:** How alien species are threatening the native crayfish *Austropotamobius pallipes* complex in the National Park "Foreste Casentinesi" (Central Italy)
- 11:30 – 11:50                      **Constanta Mihaela Ion:** Force and boldness a side-by-side comparison of native narrow-clawed crayfish (*Pontastacus leptodactylus*) and invasive spiny-cheek crayfish (*Faxonius limosus*)
- 11:50 – 12:10                      **William Budnick:** Evaluation of five trap designs for removal of invasive red swamp crayfish (*Procambarus clarkii* Girard, 1852) in Southern Michigan: catch per unit effort, body size, and sex biases
- 12:10 – 13:10                      **Lunch, hotel Štekl**
- 13:15 – 14:15                      IAA23 General Assembly and Closing Ceremonies
- 15:45                                      III. Group - Tour of the Castel Hluboká nad Vltavou

## **Saturday, 25 June, 2022**

- 8:30                                      Departure from [bus parking](#)  
Official excursion Šumava National Park
- 18:00                                      Expected return's to the Hluboká nad Vltavou

## **Sunday, 26 June, 2022**

- 8:30                                      Departure from [bus parking](#)  
Post conference trip, Český Krumlov
- 18:00                                      Expected return to the Hluboká nad Vltavou

## POSTERS

Adams Susie	Legions of lesions: sick crayfish in Montana, USA
Akmal Surya Genta	The potential risk of freshwater crayfish <i>Cherax quadricarinatus</i> in Java Island, Indonesia
Antonio Laza	Mapping the scientific research on crayfish behaviour: A bibliometric analysis
Barnett Zanethia	Crayfish Species-Genetic Diversity Correlations in Fragmented Streams
Bláha Martin	Genetic diversity and phylogenetic relationships of <i>Pontastacus leptodactylus</i> across its distributional range
Bonvillain Chris	Distribution and habitat assessment of crayfish in the Tickfaw, Tangipahoa and Tchefuncte River basins, Louisiana
Danilovic Milan	Strong need for including native crayfish species into SEE river restoration, management and conservation
Das Koushik	Circadian behaviour of parthenogenetic marbled crayfish ( <i>Procambarus virginalis</i> ) as influenced by its reproductive status
Fogelman Kaelyn	Conservation hot-spots or barriers: the effect of stream sections under bridges for the populations of native and non-native crayfish in Hungary
Ghia Daniela	The LIFE CLAW for protecting the native <i>Austropotamobius pallipes</i> in Italy
Gopinathan Anilkumar	Aquaculture of the noble crayfish <i>Astacus astacus</i> in Belarus: controlled conditions and the use of mathematical expression for stocking density as tools for optimization
Hartley James	Captive care and rearing of the imperilled big sandy crayfish ( <i>Cambarus callainus</i> )
Haubrock Philip	Economic costs of invasive crayfish
Hematyar Nima	Comparison between lipid and protein oxidation in the tail and claw muscles of Signal crayfish ( <i>Pacifastacus leniusculus</i> )
Hossain Shakhawate	Static and dynamic exposure of an antidepressant sertraline at environmental concentration alter the behavior and biochemical parameters of clonal marbled crayfish
Iqbal Azeem	Methamphetamine, sertraline, and mixture of six compounds influence the marbled crayfish's biological parameters
Kaldre Katrin	The effects of different feeds on growth and survival of noble crayfish ( <i>Astacus astacus</i> L.) juveniles
Kaur Davinder	The toughest fighter is the mother- interactions of marbled crayfish in different reproductive stages
Koese Bram	Practical considerations on mark-recapture studies in urban areas
Kukolja Vit	Comprehensive measures for the management of the invasive alien signal crayfish ( <i>Pacifastacus leniusculus</i> (Dana, 1852)) in Slovenia
Ložek Filip	Signal crayfish as a threat for European ecosymbionts- overlooked biodiversity losses

Malinovska Viktoriia	Responses of signal crayfish <i>Pacifastacus leniusculus</i> to pulse exposure of pesticides at environmentally relevant concentrations
Mengal Kifayatullah	Effects of temperature and limb amputation level on limb regeneration parameters in marbled crayfish
Mojžišová Michaela	Diversity and distribution of <i>Aphanomyces astaci</i> in a contact zone of multiple exotic crayfish species in Hungary
Oficialdegui Francisco Javier	A comprehensive review on the red claw crayfish: A prominent aquaculture and pre-traded species with invasive potential in tropical and subtropical areas
Oppedisano Alyssa	Conservation and taxonomic assessment of an undescribed <i>Creaserinus</i> species in coastal Virginia
Paolini Valentina	Distribution of microsporidiosis in <i>Austropotamobius pallipes</i> complex populations in North-western Italy
Pavić Dora	Bacterial isolates associated with crayfish cuticle show inhibitory activity against <i>Aphanomyces astaci</i> , the crayfish plague pathogen
Scheers Kevin	Aspects of the population ecology of the Spiny cheek Crayfish <i>Faxonius limosus</i> in a lowland river ecosystem in northern Belgium
Scheers Kevin	An account of the invasive non-native crayfish in Belgium
Stubbs Megan	Population genetics of an undescribed member of the upland burrowing crayfish complex, <i>Cambarus</i> aff. <i>dubius</i>
Theissingner Kathrin	The crayfish tale - An educational video
Vermeersch Xavier	The LIFE RIPARIAS project: Reaching Integrated and Prompt Action in Response to Invasive Alien Species
Vlach Pavel	Night migration pattern of stone crayfish in six streams in Czechia
Weiperth András	The effect of non-native decapods for the amphibian and aquatic reptile population in different habitats in Hungary