

## 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 Ireland

10:00 – 10:20 **Stefan Auer & Samuel 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 in 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**

	<b>Session: Genetics</b>	<b>Chairman: Frédéric Grandjean</b>
15:25 – 15:45	<b>Christelle Rutz:</b> Diversification and importance of repetitive elements in Decapod genomes	
15:45 – 16:05	<b>Lena Bonassin:</b> Cytogenomic investigation of repetitive elements in the family Astacidae	
16:05 – 16:25	<b>Licia Colli:</b> Molecular variability of white-clawed crayfish <i>Austropotamobius pallipes</i> species complex populations of the Italian north-western Apennines assessed through mitochondrial DNA sequencing and high-throughput Genotyping-By-Sequencing	
16:25 – 16:45	<b>Leona Lovrenčić:</b> Genetic data and species distribution modelling highlight the vulnerability of the stone crayfish in Croatia	
16:45 – 17:05	<b>Sina Tönges:</b> 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**

	<b>Session: Invasive Species</b>	<b>Chairman: James Stoeckel</b>
8:30 – 9:00	<b>Frank Lyko:</b> Origin and propagation of the marbled crayfish	
9:00 – 9:20	<b>András Weiperth:</b> 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	<b>Fabio Ercoli:</b> Marbled crayfish ( <i>Procambarus virginalis</i> Lyko, 2017) invasion strategies in Estonian freshwater ecosystem	
9:40 – 10:00	<b>Antonín Kouba:</b> Comparison of marbled crayfish with other prominent crayfish invaders under two temperatures	
10:00 – 10:30	<b>Coffee break</b>	
	<b>Session: Ecology and Biology</b>	<b>Chairman: Christopher Taylor</b>
10:30 – 10:50	<b>Sandra Hudina:</b> The use of bioenergetic population models in risk assessment and management of invasive crayfish species	
10:50 – 11:10	<b>Kaelyn Fogelman:</b> Investigating the physiological basis for thermal tolerance in crayfish	
11:10 – 11:30	<b>Kayla Boyd:</b> Investigating the linkages of physiology, behavior, and acute thermal stress in crayfish with varied burrowing strategies	
11:30 – 11:50	<b>Areeba Khan:</b> Impact of short-term pH change on anti-predatory behaviour and anxiety-like behaviour of crayfish: a comparative study	
11.50 – 12.10	<b>Jean-Yves Georges:</b> When reintroduction turns to invasion: a fable about turtles and crayfish	
12:10 – 13:10	<b>Lunch, hotel Štekl</b>	

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

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

8:00	Departure from <a href="#">bus parking</a> to <b>Faculty of Fisheries and Protection of Waters, Vodňany</b>
8:30 – 9:30	<b>Genetics Fisheries Center of FFPW</b>
10:00 – 11:00	<b>Experimental Fish Culture and Facility of FFPW</b>
12:00 – 14:00	<b>Lunch</b>
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**

	<b>Session: Diseases and Pathogens</b>	<b>Chairman: Javier Diéguez Uribeondo</b>
8:30 – 9:00	<b>Adam Petrusek:</b> Advances in crayfish plague research: what did we learn from application of molecular tools?	
9:00 – 9:20	<b>Tobia Pretto:</b> Strategies to monitor <i>Aphanomyces astaci</i> in North-western Apennine in <i>Austropotamobius pallipes</i> complex population	
9:20 – 9:40	<b>Ana Bielen:</b> Crayfish plague pathogen <i>Aphanomyces astaci</i> : from non-destructive monitoring to ecology and sustainable control methods	
9:40 – 10:00	<b>María Martínez Ríos:</b> Resistance to crayfish plague: assessing the response of native Iberian populations of the white-clawed freshwater crayfish	
10:00 – 10:30	<b>Coffee break - poster session</b>	

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

## 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 **Miguel Clavero:** From a renaissance royal whim to our beloved native crayfish: How the Italian crayfish become a conservation priority in Spain
- 9:20 – 9:40 **Dusty Swedberg:** Sampling in hard to sample habitats, a case study for assessing the status of a rare, swamp inhabiting crayfish in Illinois, USA
- 9:40 – 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: Susan B. Adams**
- 10:30 – 10:50 **Elena Tricarico:** How alien species are threatening the native crayfish *Austropotamobius pallipes* complex in the National Park "Foreste Casentinesi" (Central Italy)
- 10:50 – 11:10 **Mihaela C. Ion:** Force and boldness a side-by-side comparison of native narrow-clawed crayfish (*Pontastacus leptodactylus*) and invasive spiny-cheek crayfish (*Faxonius limosus*)
- 11:10 – 11:30 **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
- 11:30 – 11:50 **Kathrin Theissinger:** The crayfish tale - An educational video
- 11:50 – 12:50 **Lunch, hotel Štekl**
- 12:55 – 13:55 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 Susan B.      Legions of lesions: sick crayfish in Montana, USA
- Akmal Surya Genta      The potential risk of freshwater crayfish *Cherax quadricarinatus* in Java Island, Indonesia
- Barnett Zanethia      Crayfish Species-Genetic Diversity Correlations in Fragmented Streams
- Baudry Thomas      Impacts of a super-invader, the invasive crayfish *Cherax quadricarinatus*, on riverine ecosystems: evidence from stable isotope analysis in Martinique
- 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 (*Procambarus virginalis*) as influenced by its reproductive status
- Ghia Daniela      The LIFE CLAW for protecting the native *Austropotamobius pallipes* in Italy
- Gopinathan Anilkumar      Aquaculture of the noble crayfish *Astacus astacus* 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 (*Cambarus callainus*)
- Haubrock Phillip J.      Economic costs of invasive crayfish
- Hematyar Nima      Comparison between lipid and protein oxidation in the tail and claw muscles of Signal crayfish (*Pacifastacus leniusculus*)
- 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 (*Astacus astacus* 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

- Laza Antonio V. Mapping the scientific research on crayfish behaviour: A bibliometric analysis
- Ložek Filip Signal crayfish as a threat for European ecosymbionts- overlooked biodiversity losses
- Malinovska Viktoriia Responses of signal crayfish *Pacifastacus leniusculus* to pulse exposure of pesticides at environmentally relevant concentrations
- Marguč Diana Comprehensive measures for the management of the invasive alien signal crayfish (*Pacifastacus leniusculus* (Dana, 1852)) in Slovenia
- Mengal Kifayatullah Effects of temperature and limb amputation level on limb regeneration parameters in marbled crayfish
- Mojžišová Michaela Diversity and distribution of *Aphanomyces astaci* 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 *Creaserinus* species in coastal Virginia
- Paolini Valentina Distribution of microsporidiosis in *Austropotamobius pallipes* complex populations in North-western Italy
- Pavić Dora Bacterial isolates associated with crayfish cuticle show inhibitory activity against *Aphanomyces astaci*, the crayfish plague pathogen
- Scheers Kevin Aspects of the population ecology of the Spiny cheek Crayfish *Faxonius limosus* in a lowland river ecosystem in northern Belgium
- An account of the invasive non-native crayfish in Belgium
- Stubbs Megan Population genetics of an undescribed member of the upland burrowing crayfish complex, *Cambarus* aff. *Dubius*
- Theissinger 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
- Conservation hot-spots or barriers: the effect of stream sections under bridges for the populations of native and non-native crayfish in Hungary