

## IAA17 programme and oral presentations

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### Monday, 4 August

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- 9-12 Registration; TietoTeknia, our beautiful symposium venue
- 10-12 **Tough Tough Coffee**
- 12-12.10 IAA17 Opening ceremonies; Matti Uusitupa, Rector, University of Kuopio  
12.10-12.30 Organisers welcome address and some official bits+pieces
- IAA3 reminiscence session**
- 12.30-1 Ossi V. Lindqvist: IAA3 and IAA anecdotes according to Ossi
- Conservation** Chairperson Japo Jussila
- 1-1.15 Peay S, Holdich D M, Brickland, J: Risk assessments of non-indigenous crayfish in the UK  
1.15-1.30 Taylor C A, Schuster G A: Status of the crayfishes of Alabama: what we know about crayfish heaven  
1.30-2.15 **Keynote speaker**; Horwitz, P: Freshwater crayfish, conservation lists and passionate associations
- 2.15-2.45 **Coffee**
- Conservation** Chairperson Pierre Horwitz
- 2.45-3 Bohman P, Edsman L: Management and conservation of crayfish in Sweden – results and the way forward  
3-3.15 Järvenpää T: Adaptation of American signal crayfish (*Pacifastacus leniusculus*) in a Finnish lake — many questions arise, few answers are available so far  
3.15-3.30 Bunn J J S, Horwitz P, Koenders A: The replacement of critically endangered native hairy marron (*Cherax tenuimanus*) by introduced smooth marron (*C. cainii*) in the Margaret River, Western Australia and conservation requirements to prevent its extinction in the wild  
3.30-3.45 Edsman L, Janson T, Johnsen S, Toverud Ö: Lake Stora Le – How to manage an illegal introduction of plague-carrying signal crayfish in a Norwegian- Swedish border lake in noble crayfish country  
3.45-4 Furse J M, Wild C H.: The role of *Euastacus sulcatus* (Decapoda: Parastacidae) on the in-stream mobilisation and transport of materials in the Gold Coast Hinterland (Queensland)  
4-4.15 Füreder L, Lucić A, Maguire I, Schletterer M, Sint D, Weinländer M, Erben R: Habitat requirements of indigenous crayfish in Austria and Croatia: Implications for aquatic species conservation
- 7-9 IAA 17 lake cruise; Kuopio recreational harbour, and those tickets in hand, please

### Tuesday, 5 August

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- Ecology** Chairperson Timo Halonen
- 9-9.15 Tulonen J, Erkamo E, Jussila J: The catchability and depth distribution of crayfish (*Astacus astacus*, L., *Pacifastacus leniusculus*, Dana) in different seasons  
9.15-9.30 Shepherd T, Richardson A, Gardner C, Green B, Doran N, Walsh T: Long-term tagging and monitoring of the giant freshwater crayfish, *Astacopsis gouldi*  
9.30-9.45 Welch S M, Eversole A G: Comparative desiccation effects in crayfish  
9.45-10 Alves N, Kohen J, Merrick J, Gilligan D: Juvenile recruitment of the Murray crayfish, *Euastacus armatus*
- 10-10.45 **Coffee & poster session**
- Ecology** Chairperson Lennart Edsman
- 10.45-11 Ramalho R O, McClain W R, Anastácio P M: Crayfish dispersal in a production pond: A preliminary mark-recapture approach  
11.15-11.30 Reynolds J, Lynn D, O'Keeffe C: Methodology for monitoring Irish lake populations of white-clawed crayfish (*Austropotamobius pallipes*)  
11.30-11.45 Erkamo E, Ruokonen T, Alapassi T, Ruokolainen J, Järvenpää T, Tulonen J, Kirjavainen J: The successfulness of crayfish stockings in Southern Finland in the years 1975-2003  
11.45-12 Pursiainen M, Westman K: The Movement patterns of noble crayfish (*Astacus astacus* Linnaeus) in a small forest lake
- 12-1 **Lunch**

- Disease** Chairperson Paula Henttonen
- 1-1.45 **Keynote speaker** Vrålstad, T: Recent advances in molecular detection of *Aphanomyces astaci*
- 1.45-2 Imhoff E, Mortimer R J G, Christmas M, Dunn A: Non-lethal tissue sampling allows molecular screening for microsporidian parasites in signal (*Pacifastacus leniusculus*) and white-clawed crayfish (*Austropotamobius pallipes*).
- 2.15-2.30 Makkonen J, Kokko H, Jussila J, Henttonen P: Genotyping of crayfish plague *Aphanomyces astaci* by PCR and direct sequencing
- 2.30-2.45 Sang H M, Fotedar R: Effects of dietary beta - 1,3 - glucan on the physiological and immune responses of marron, *Cherax tenuimanus* (Smith, 1912), under laboratory condition
- 2.45-3.15 **Coffee**
- IUCN presentation** Chairperson Japo Jussila
- 3.15-5 IUCN presentation; Dr Nadia Dewhurst, SRLI Crayfish and Lobster Assessment Co-ordinator

### Wednesday, 6 August

- Disease** Chairperson Trude Vrålstad
- 9-9.15 Erkamo E, Ruokonen T, Alapassi T, Ruokolainen J, Järvenpää T, Tulonen J, Kirjavainen J: The appearance of the crayfish plague (*Aphanomyces astaci*) into introduced plague-free crayfish populations
- 9.15-9.30 Maiwald T, Vrålstad T, Jarausch W, Schulz H K, Smietána P, Schulz R: Status of crayfish plague *Aphanomyces astaci* in lakes with coexistence between indigenous crayfish species *Astacus astacus* and alien species *Orconectes limosus*
- 9.30-9.45 Kozubíková E, Petrušek A, Filipová L, Ďuriš Z, Kozák P, Martín M P, Diéguez-Urbeondo J, Oidtman B: Distribution of crayfish plague in the Czech Republic: Factors influencing prevalence of *Aphanomyces astaci* carriers in invasive crayfish populations
- 9.45-10 Kokko H: Oomycetes, thread to red berries and crayfish
- 10-10.15 Hurt M, Paaver T, Koiv K: Attempts to stop spread of crayfish plague in the historically disease free reserve of noble crayfish, the island Saaremaa, Estonia
- 10.15-10.45 **Coffee**
- Ecology** Chairperson James Furse
- 10.45-11 Zimmerman J, Palo T: Influence of water level regulation and water flow on noble crayfish (*Astacus astacus*) catch in the river Ljungan
- 11.15-11.30 Allert A, Fairchild J, DiStefano R, Brumbaugh W, Johnson L, Olson S, Stoppler D: Functional ecology of crayfish in Ozark streams: Effects of mining-derived metals on leaf processing
- 11.30-11.45 Huner J V, Jeske C: Crawfish and waterbirds – what we do and don't know about their interactions in aquaculture situations
- 11.45-12 Salkonen L, Pursiainen M, Tynkkynen K: The adaptation to flowing water conditions of the noble crayfish (*Astacus astacus* Linnaeus) and the signal crayfish (*Pacifastacus leniusculus* Dana)
- 12-1 **Lunch**
- Ecology** Chairperson Arnie Eversole
- 1-1.15 Johnston K, Robson B, McRae T: Habitat use by five Australian freshwater crayfish species from the Grampians national Park
- 1.15-1.30 Welch S M, Eversole A G: Ecology of the primary burrowing crayfish *Distocambarus crockeri*
- 1.30-1.45 Pursiainen M, Westman K: The habitat selection of the noble crayfish (*Astacus astacus* Linnaeus)
- 1.45-2 Carmona-Osalde C, Olvera-Novoa MA, Puerto-Novelo E, Rodríguez-Serna M: Effect of water levels on the spawning rate and egg number of female crayfish *Procambarus (Austrocambarus) llamasii* (Villalobos, 1955)
- 2.-2.15 Tulonen J, Erkamo E, Mannonen A, Jussila J: Juvenile noble crayfish (*Astacus astacus*) mortality under conditions of water level regulation and predator pressure
- 2.15-3 **Coffee & poster session**

### Ecology

Chairperson Ari Mannonen

- 3-3.15 Hamr P: The biology, distribution and management of the introduced Crayfish *Orconectes rusticus* in Ontario, Canada
- 3.15-3.30 Bjurström L, Hämäläinen H, Pursiainen M: Impacts of the non-native crayfish (*Pacifastacus leniusculus*) on littoral benthic invertebrate communities in Lake Päijänne
- 3.30-3.45 DiStefano R J, Litvan M E, Walker K J: A recreational fishery for longpincered crayfish (*Orconectes longidigitus*) in Table Rock reservoir, Missouri (U.S.A.): Effects of season and environmental factors on trapping
- 3.45-4 Burnham Q, Koenders A, Horwitz P: The taxonomic significance of potentially plastic morphological characters in burrowing crayfish
- 4-4.15 Kozák P, Musil M, Buřič M, Policar T, Kouba A: Comparison of day and night activity between noble (*Astacus astacus*) and spiny-cheek crayfish (*Orconectes limosus*)
- 7-9 Kuopio City reception; City Hall, do not forget your invitation, please

### Thursday, 7 August

#### Physiology

Chairperson Stephanie Peay

- 9.15-9.30 McClain W R: Seasonal influences on growth of *Procambarus clarkii* in Louisiana
- 9.30-9.45 D'Agaro, E, Stavisì A, Sparacino, C, Tavagliani, F: Effects of light intensity and colour spectrum on growth performances of juvenile noble crayfish *Astacus atacus*
- 9.45-10 Savolainen R, Railo E, Pursiainen M: The Effects of the northern conditions on the success in the reproduction of signal crayfish (*Pacifastacus leniusculus* Dana)
- 10-10.45 **Coffee & poster session**

#### Behaviour

Chairperson Ravi Fotedar

- 10.45-11 Shuranova Z, Burmistrov Y: The crayfish, *Procambarus cubensis*: behavioural studies in the laboratory
- 11.15-11.30 Kholodkevich S, Fedotov V, Ivanov A, Khalatov A, Kurakin A, Kornienko E, Udaloba G, Sladkova S: Fiber-optic automatic system for permanent online monitoring of water quality based on analysis of crayfish cardiac activity
- 11.30-11.45 Tertitskaya A G, Borisov R R, Kovatcheva N P: The role of claws, sex and size in aggressive interactions in red swamp crayfish (*Procambarus clarkii*) kept under artificial conditions
- 11.45-12 Burmistrov Y, Shuranova Z: Beatings of flagellar exopods in the crayfish as an overt expression of its excitation

12-1 **Lunch**

#### Genetics

Chairperson Frédéric Grandjean

- 1-1.45 **Keynote speaker**, Crandall, K: The Origins and diversification of freshwater crayfishes
- 1.45-2 Barriga-Sosa I, Carmona-Osalde C, Gárnica-Rivera C, Acuña-Gómez P, Rodríguez-Serna M: Low genetic diversity and gene flow in *Procambarus* sp. from southeast Mexico

2-2.30 **Coffee**

#### Genetics

Chairperson Keith Crandall

- 2.30-2.45 Filipová L, Grandjean F, Lieb A D, Petrussek A: Haplotype variation of European populations of the invasive spiny-cheek crayfish (*Orconectes limosus*)
- 2.45-3 Alaranta A, Jussila J, Kokko H, Henttonen P: Genetic variation of noble crayfish (*Astacus astacus*) populations in Finland based on rDNA microsatellite-like repeat; implications for management and conservation
- 3-3.15 Klobučar G, Maguire I, Franjević D, Faller M, Gottstein S, Kalafatić M: Mitochondrial DNA sequences reveal cryptic diversity within stone crayfish (*Austropotamobius torrentium*)
- 7-10 IAA 17 Banquet, Teknia restaurant, prepare for light entertainment and heavy meal

### Friday, 8 August

#### Aquaculture

Chairperson Marina Paolucci

- 9.15-9.30 Matinfar A, Adibpasand A, Matinfar M: The effect of protein levels on molt synchronization of *Astacus leptodactylus*
- 9.30-9.45 Valipourali R, Shariatmadari F, Abedian A, Seyfabadi S Jr, Zahmatkesh A: Effects of various levels of lipid on body composition of narrow-clawed crayfish, (*Astacus leptodactylus* Esch., 1823)
- 9.45-10 Policar T, Flanigan M, Smyth J, Kozak P: Intensive culture of white-clawed crayfish (*Austropotamobius pallipes*) under controlled conditions
- 10-10.15 Garza de Yta A, Rouse D B, Davis D A: Evaluation of practical diets containing various protein sources for juvenile Australian red claw crayfish *Cherax quadricarinatus*

10.15-10.45 **Coffee**

***Ecology, Morphology***

Chairperson Tiit Paaver

10.45-11 Maguire I, Beljan L, Klobučar G: Morphological characteristics of *Astacus leptodactylus* from Croatia

11-11.15 Adams S B.: Large-scale correlates of crayfish distributions in Mississippi, USA

11.15-11.30 Pursiainen M, Ruokonen T, Tulonen J: The development of crayfish stock management in Finland

11.30-12.30 **Lunch**

12.30-3 IAA17 closing ceremonies

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