

University of Southampton – RIBES Network school 2021 - “Fundamentals of Fish Characteristics”

The network school will be held over Teams (link will be sent out later) and coffee breaks will occur at suitable times within the lecture and seminar blocks.

The network school (including preparations, readings, and evaluation) corresponds to 4 ECTS.

| Date | 22 March | 23 March | 24 March | 25 March | 26 March |
|-------------------------|---|---|---|---|---|
| MORNING (09-12 UK) | <p>Welcome (Claudio Comoglio & Paul Kemp)</p> <p>Research School - 1 <u>Diversity and classification of fish</u> (Paul Kemp)</p> <p><u>Fish biology in an altered climate</u> (Larry Greenberg)</p> | <p>Research School – 2</p> <p><u>Fish behaviour and migration</u> (Andy Vowles)</p> <p><u>Sensory biology</u> Sounds (Helen Currie) Light (Franz Hölker)</p> | <p>Research School – 3</p> <p><u>Fish physiology</u> (Gianfranco Santovito)</p> <p><u>Fish economy and market implications</u> (Peter Goethals)</p> <p><u>Emån-case study</u> (Larry Greenberg)</p> <p><u>Ecosystem values and valuations</u> (John Piccolo)</p> | <p>Complementary activities</p> <p><u>Career perspectives in Water industry</u> (Perikles Karageorgopoulos)</p> <p><u>Technical writing skills</u> Scientific articles (Paul Kemp) Thesis (Peter Goethals)</p> | <p>General RIBES Meeting</p> |
| AFTERNOON (13-16 UK) | <p>Workshop 1 5 x ESR presentations ESR01-05</p> | <p>Workshop 2 5 x ESR presentations ESR06-10</p> | <p>Workshop 3 5 x ESR presentations ESR11-15</p> | <p>Informal ESR discussions (Facilitators: Bergman, Comoglio, Kemp)</p> <p>Fellow Board Meeting</p> | <p>13:00 Supervisory Board meeting</p> <p>15:00 Fellow Board Debriefing Meeting</p> |
| EVENING | <p>17:00 Committee Meetings</p> | <p>18:00 Short course: John Williams - Lessons on the Columbia River</p> | <p>ESR Social</p> | | |

Seminar presentation:

During the three first afternoons of the week, the ESRs will present their research project, and get input from RIBES Supervisors and members of the Expert Advisory Board. The presentation should be 15-20 min long and will be followed by 10-15 min for questions and comments. The presentation should cover the general background and objective of the ESR-project, and then go deeper in to a first experiment/field study/research project. The presentation should be directed to an interdisciplinary audience within the field of ecohydraulics.

Recommended reading material in relation to the network school:

Lucas, Martyn C, Etienne Baras, Timothy J Thom, Annie Duncan, and Ondrej Slavík. 2001. *Migration of Freshwater Fishes (Chapters 1-4)*. Vol. 47. Wiley Online Library.

Montgomery, David R. 2004. *King of Fish: The Thousand-Year Run of Salmon*. Cambridge, MA, USA.: Basic Books.

Brix, Ole. 2002. "The Physiology of Living in Water." *Handbook of Fish Biology and Fisheries* 1: 71–96.

"How Much Is an Elephant Worth? Meet the Ecologists Doing the Sums." 2021. The Guardian. January 28, 2021.

<http://www.theguardian.com/environment/2021/jan/28/how-much-is-an-elephant-worth-meet-the-ecologists-doing-the-sums-aoe>.

"Put a Price on Nature? We Must Stop This Neoliberal Road to Ruin | George Monbiot." 2014. The Guardian. July 24, 2014.

<http://www.theguardian.com/environment/georgemonbiot/2014/jul/24/price-nature-neoliberal-capital-road-ruin>.

Evaluation for full credit reward (preliminary assignment):

Within 2 weeks of the network school, write a short essay (approximately 2 pages) reflecting about your own research in relation to the lectures, discussions and recommended reading.