



Third Announcement International Workshop on the Restoration of Fish Populations

1-4 September 2009
Düsseldorf, Germany



Organized by:

State Agency for Nature, Environment and Consumer Protection in North Rhine Westphalia, Germany

European Life Project on the Re-Introduction of Allis Shad to the River Rhine

www.alosa-alosa.eu

Landesamt für Natur,
Umwelt und Verbraucherschutz
Nordrhein-Westfalen



Co-organized by:



IUCN/WI Freshwater
Fish Specialist Group

IUCN Re-Introduction
Specialist Group

IUCN Sturgeon
Specialist Group

IUCN Salmon
Specialist Group

In collaboration with:



International Workshop on the Restoration of Fish Populations
1-4 September 2009 - Düsseldorf Germany

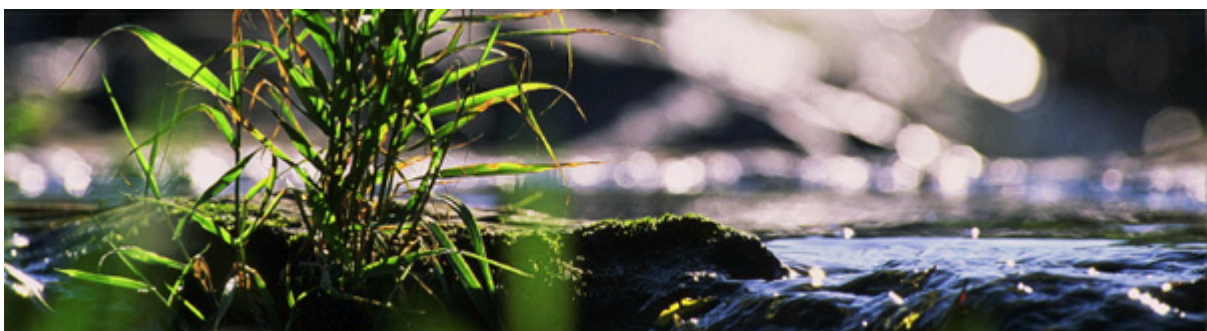
Background

The industrial revolution in the late 18th and 19th centuries led to heavy pollution of rivers, lakes and estuaries, large-scale habitat degradation and the loss of many native fish species. In some countries, commercially important fisheries ceased due to overfishing and severe environmental degradation. The link between poor water quality and health together with an increasing awareness of the natural environment led to a tightening of pollution legislation. However improvements in water quality were not seen till the second half of the 20th century. The earliest fish restoration projects commenced in the late 1960s, but it soon became apparent that restoration of fish populations is complex, lengthy and financially costly. These early fish restoration and re-introduction projects often failed due to inadequate planning and a lack of resources, financial and otherwise.

In 1988 the IUCN Re-Introduction Specialist Group was established to assist scientists and managers in conducting viable re-introduction projects worldwide. However, diadromous fish species, like salmon, sturgeon, shad or eel presented a particularly challenge because of their complex life cycles. To address this the IUCN Salmon and Sturgeon Specialist Groups were established to, among other things, increase the success of population conservation and habitat restoration for these commercially important species. Despite this increased effort, freshwater fish biodiversity is still declining in Europe and, indeed, worldwide. In response to this, the IUCN Freshwater Fish Specialist Group was established in 2004 to achieve conservation and sustainable use of all freshwater fishes and their habitats.

A considerable volume of information and expertise has been gathered over 50 years of fish restoration projects and the present conference provides an opportunity to bring together experts from around the world to share experiences and technical knowledge, to improve and optimise current fish restoration projects and to plan for the future. The key aim of this symposium is to synthesize contemporary understanding of fish restoration by facilitating the presentation of original research results from a number of different disciplinary fields

Hosting the conference is the EU's 'European Life Project' for the restoration of the Allis shad (*Alosa alosa*) to the River Rhine. This anadromous fish died out in the Rhine in the first half of the 20th century. However, a project to restore the species to the Rhine was started in 2003. In 2008 the first shad were re-introduced to the river. Research data communicated during the course of this Workshop shall be used to optimise the goals of this project and several others.



Outline Programme

31 August	Registration, Ice-breaker
1 September	Registration, Welcome, Workshop Day 1, Poster Session
2 September	Workshop Day 2, Working Groups, Social Evening in the Aquazoo - Löbbecke Museum
3 September	Workshop Day 3, Poster Session, Closing Ceremony
4 September	optional: Conference Excursions (Salmon Restoration in the River Rhine, 2-days Rhine Delta excursion)

29 talks + keynote lectures, working groups and poster sessions

Keynote lectures:

The Marble Trout (Salmo marmoratus) Conservation Program: main insights from a 15 years' reintroduction experience

Simone Vincenzi, Alain J Crivelli, Dusan Jesensek and Giulio A De Leo, Italy, France, Slovenia

Overview of the IUCN Guidelines for Re-introductions with emphasis on developing taxon specific guidelines for fish restoration projects

Pritpal Singh Soorae and Frederic Launay, United Arab Emirates, IUCN Re-Introduction Specialist Group

Cultivation of endangered species to achieve "FITNES FOR SURVIVAL" at release into natural habitats

Harald Rosenthal, Germany, World Sturgeon Conservation Society, WSCS

Salmon and banana tree; evidence and uncertainty. How to use results from climate's scenarios based niche models in fish recovery plans

Eric Rochard and Géraldine Lassalle, France, CEMAGREF

Restoration and Management of American Shad and Atlantic Sturgeon on the US Atlantic Coast

Richard St. Pierre, U.S.A, IUCN Sturgeon Specialist Group

Opportunities and threats from European Funding for fish and habitat restoration projects

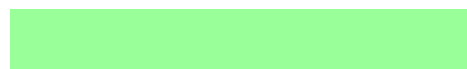
Peter Torkler, Germany, World Wildlife Fund, WWF

Role of the IUCN/WI Freshwater Fish Specialist Group in Conservation

Gordon McGregor Reid, United Kingdom, Director North of England Zoological Society, Chair IUCN Freshwater Fish Specialist Group

Defining fish communities for restoration in waterways supporting society and nature

Mark Bain, Cornell University, USA



Monday 31. Aug	Tuesday 01. Sep	Wednesday 02. Sep	Thursday 03. Sep	Friday 04. Sep	Saturday 05. Sep
<div>Arrival</div> <div> <div>17:00</div> <div>Registration</div> </div> <div> <div>18:00-21:00</div> <div>Registration + Icebreaker</div> </div>	<div>08:00</div> <div></div>	<div>09:00</div> <div>Registration + coffee</div>	<div>09:00</div> <div>Keynote 4: Richard St. Pierre - Restoration and Management of American Shad and Atlantic Surgeon on the US Atlantic Coast</div>	<div>09:00</div> <div>Keynote 6: Mark Bain - Defining fish communities for restoration in waterways supporting society and nature</div>	<div>Excursions</div>
	<div>09:00</div> <div>Opening: Dr. Bottermann, LANUV NRW</div>	<div>09:40</div> <div></div>	<div>09:40</div> <div>Worthington et al. - Reintroducing an extinct species of fish to the UK: ecological, historical and sociological perspectives</div>	<div>09:40</div> <div>Pini Prato et al. - A simple management tool for planning the restoration of river longitudinal connectivity at watershed level: priority indexes for fish passes</div>	
	<div>09:05</div> <div>Introduction Dr. Wolke, LANUV NRW</div>	<div>10:00</div> <div></div>	<div>10:00</div> <div>Vught et al. - Re-introduction of bullhead in the basin of the river Demer in Flanders</div>	<div>10:00</div> <div>Erkinaro et al. - Restoring migratory salmonid populations in heavily regulated rivers in the northernmost Baltic Sea area, Northern Finland - a review of recent activities</div>	
	<div>09:15</div> <div>Introduction EU Life: Frank Vassen, EU</div>	<div>10:20</div> <div></div>	<div>10:20</div> <div>Borcherding et al. - Re-establishment of the North-Sea houting in the River Rhine</div>	<div>10:20</div> <div>Gargan et al. - Assessment of the Risk of Barriers to Fish Migration in the Nore Catchment, Republic of Ireland.</div>	
	<div>09:35</div> <div>Greebling: Environment Minister NRW: Mr. Uhlenberg</div>	<div>10:40</div> <div></div>	<div>10:40</div> <div>Zilek et al. - The rehabilitation of potamodromous fish migrations in the Danube catchment with a special focus on the Danube Salmon, Hucho hucho and the nase, Chondrostoma nasus.</div>	<div>10:40</div> <div>Laine et al. - Technical challenges for fish restoration in heavily regulated rivers of Northern Finland</div>	
	<div>09:40</div> <div>Key note 1: Vincenzi et al. - The Marble Trout (<i>Salmo marmoratus</i>) Conservation Program: main insights from a 15 years' reintroduction experience.</div>	<div>11:00</div> <div></div>	<div>11:00</div> <div>Coffee break</div>	<div>11:00</div> <div>Coffee break</div>	
	<div>10:20</div> <div>Beeck et al. - EU Life project: The re-introduction of allis shad (<i>Alosa alosa</i>) in the River Rhine system</div>	<div>11:20</div> <div></div>	<div>11:20</div> <div>Arne Ludwig - Genetic aspects of restoration programs - lessons from surgeon</div>	<div>11:20</div> <div>Keynote 7: Harald Rosenblatt - Cultivation of endangered species to achieve 'FITNES FOR SURVIVAL' at release into natural habitats</div>	
	<div>10:40</div> <div>Ingendahl et al. - The re-introduction of Atlantic Salmon to the River Rhine - lessons learned from the last 20 years with special regard to river rehabilitation</div>	<div>11:40</div> <div></div>	<div>11:40</div> <div>Ostergren et al. - Do supplemental stockings help restoration of a weak wild salmonid population since monitoring of salmon and sea trout smolts reveal genetic introgression ?</div>	<div>12:00</div> <div>Clave et al. - Transfer of existing scientific know-how on species re-introductions can help to improve re-introduction plans of related species</div>	
	<div>11:00</div> <div>Coffee break</div>	<div>12:00</div> <div></div>	<div>12:00</div> <div>Halfway et al. - An audit of genetic and breeding practices of French hatcheries involved in salmon and trout restoration</div>	<div>12:20</div> <div>Lochet et al. - Chemical mass-marking success and limitations.</div>	
	<div>11:20</div> <div>Jonsson & Jonsson - Fish release as a mean to restore and enhance populations of Atlantic salmon</div>	<div>12:20</div> <div></div>	<div>12:20</div> <div>Lunch</div>	<div>12:40</div> <div>Lunch</div>	
	<div>11:40</div> <div>Didenko et al. - Challenges to restoration of salmonids in streams of the Ukrainian part of the Carpathians</div>	<div>13:40</div> <div></div>	<div>13:40</div> <div>Keynote 5: Pritpal Singh Soorae and Frederic Launay - Overview of the IUCN Guidelines for Re-introductions with emphasis on developing taxon specific guidelines for fish restoration projects</div>	<div>14:00</div> <div>Keynote 8: Peter Torkler - Opportunities and threats from European Funding for fish and habitat restoration projects</div>	
	<div>12:00</div> <div>Kaukoranta et al. - Restoring Atlantic Salmon and Brown Trout Populations in the Tuloma River System</div>	<div>14:20</div> <div></div>	<div>14:20</div> <div>Working Group Fish Reintroduction</div>	<div>14:40</div> <div>Ludwig Tent - Restoration of Habitat as Essential Factor for Improved Fauna Populations - Long Term Experience on North German Lowland Brooks</div>	
	<div>12:20</div> <div>Jörg Schneider - Reintroduction of Atlantic salmon (<i>Salmo salar</i>) in tributaries of river Rhine in Rhineland-Palatinate and Hesse</div>	<div>15:20</div> <div></div>	<div>15:20</div> <div>Coffee break</div>	<div>15:00</div> <div>Bunzel-Druke et al. - Floodplain restoration and fish fauna: a 16 year case study from the River Lippe</div>	
	<div>12:40</div> <div>Lunch</div>	<div>15:40</div> <div></div>	<div>15:40</div> <div>Working Group Fish Reintroduction</div>	<div>15:20</div> <div>Coffee break</div>	
	<div>14:00</div> <div>Keynote 2: Eric Rochard & Géraldine Lasalle: Salmon and banana tree: evidence and uncertainty. How to use results from climate's scenarios based niche models in fish recovery plans</div>	<div>16:40</div> <div></div>	<div>16:40</div> <div>Presentation WG</div>	<div>15:40</div> <div>Goedeking et al. - Effects of hydromorphological restoration measures and near-natural river stretches on the fish fauna of the Eifel-Rur - specific use of "stepping stone effects" for reaching the objectives of the Water Framework Directive</div>	
	<div>14:40</div> <div>Stevens et al. - Status of the diadromous fishes and conditions for their recovery in the Schelde basin</div>	<div>17:00</div> <div></div>	<div>17:00</div> <div>End day 2</div>	<div>16:00</div> <div>Gessner et al. - Development of a national Action Plan for the restoration of the European sturgeon - implementing international commitments on a national scale</div>	
	<div>15:00</div> <div>Acou et al. - Predicting the timing of silver eel migration with environmental factors in a large river system</div>			<div>16:20</div> <div>Closing ceremony</div>	
	<div>15:20</div> <div>Vesilov et al. - Experience of artificial incubation of Atlantic salmon (<i>Salmo salar</i>) eggs in rivers of Northwest Russia</div>	<div>17:15-19:15</div> <div>Optional: Working group Genetic tools in fish conservation</div>			
	<div>15:40</div> <div>Coffee break</div>				
	<div>16:00</div> <div>Keynote 3: Gordon McGregor Reid - Role of the IUCN/WI Freshwater Fish Specialist Group in Conservation</div>				
	<div>16:40</div> <div>Mark Bain - Migratory mega-cyprinids need attention: Aspirotynchus laticeps of the Xinjiang Autonomous Region, China</div>	<div>19:30</div> <div>Social Evening</div>			
	<div>17:00</div> <div>Menachem Goren - The scientific background for preservation of endangered fishes - the Yarqon bleak (<i>Acanthobrama telavivensis</i>) as a test case</div>				
	<div>17:20</div> <div>Lenhardt et al. - Status of Pontic shad (<i>Alosa immaculata</i> Bennett 1835) in Lower Danube Region</div>				
	<div>17:40</div> <div>End of day 1</div>				

Working groups

The following working groups have been scheduled:

Development of guidelines for re-introduction of fishes

Organized by the IUCN Re-Introduction Specialist Group

The outcome of the discussion shall be a starting point for the development of more specialised guidelines in the field of fish restoration.

Opportunities of cooperation between European labs working on diadromous fish recovery

Organized by the Diadfish network (more information: www.diadfish.org)

Genetic tools in fish conservation

Organized by Rui Faria, Stephen Sabatino and Paulo Alexandrino, University of Porto, Portugal

Scientific Contributions

The scientific papers and other outputs which constitute the 'Proceedings of the Conference' are scheduled to be published in the **international, peer-reviewed "Journal of Applied Ichthyology"** by Blackwell Science. Participants are invited to present a scientific paper as oral presentation and/or a poster.

Manuscripts should be submitted at the conference.

Manuscript guidelines can be downloaded from the Journal homepage.

Oral presentations

Oral presentations should last 15 min. Presentations in Power Point (Windows) should be ready to download to the conference laptop the day before the presentation. Overhead and Slide projectors will also be available in the conference room.

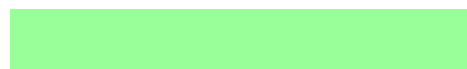
Posters

Posters should fit a standard format of max. 80 cm wide and 100 cm high.

The submission of oral abstracts is closed. The deadline for the submission of Poster Abstracts is 14 August 2009.

Submission of abstracts

Abstracts should be sent by e-mail to <mailto:Peter.Beeck@wasserlauf-nrw.de> with CONFERENCE 2009 ABSTRACT in the email subject heading. Please indicate the category of your presentation (poster) and if you are planning to submit a manuscript for the conference proceedings.



Instructions for writing the abstract

Abstracts should be written in English, following the format below. The body of the abstract should include clear objectives, methodology, results, and conclusion. Review papers are also welcome.

Format

The main text of the abstract should not exceed 300 words and should contain the summary of the results and main conclusions. Guidelines for the format of the abstract are provided below. Please follow the guidance carefully, as abstracts not conforming to the specified format may be rejected.

Preferred form of presentation

- * State O (oral) or P (poster)
- * Title of presentation (in Arial 11-point, bold font)
- * Author's surname(s) and name(s): name1, name2 and name3 (in Arial-11 point; underline the presenting author if it is not the first author)
- * Author's affiliation(s): 1, 2 and 3 (full postal address(es), including institution, street, town/city, post-code, and country; in Arial 11-point, italics)
- * Main text, not exceeding 300 words, in one paragraph, with scientific names in italics, with no references cited (in Arial 11-point)

Thematic sessions (tentative list)

Feasibility studies on Fish Restoration

Applied Research, (e.g. Genetics, behavioural studies)

New techniques for fish restoration

Case studies: Fish Restoration

Challenges to restoration (e.g. habitat loss, barriers, overexploitation)

Ecosystem responses after Fish Restoration

Habitat restoration

Management tools

Restoration Policy

Modelling approaches

Monitoring of fish restoration

Socio-economic impacts

Funding opportunities

Scientific Committee:

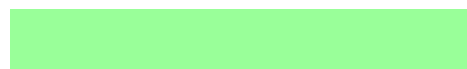
Mark Bain, Cornell University, New York, USA

Jost Borchering, University of Cologne, Ecological Research Station, Germany

Alain Crivelli, Station Biologique de la Tour du Valat, France

Jaakko Erkinaro, Finnish Game and Fisheries Research Institute, Finland

Jörn Gessner, IGB, Leibniz Institute of Freshwater Ecology and Inland Fisheries, Germany



Detlev Ingendahl, State Agency for Nature, Environment and Consumer Protection in
North Rhine Westphalia, Germany
Bror Jonsson, Norwegian Institute for Nature Research, Norway
Heiner Klinger, State Agency for Nature, Environment and Consumer Protection in
North Rhine Westphalia, Germany
Arne Ludwig, IZW, Leibniz Institute of Zoo and Wildlife Research, IUCN Sturgeon
Specialist Group, Germany
Gordon McGregor Reid, Director North of England Zoological Society, Chair IUCN
Freshwater Fish Specialist Group, United Kingdom
Eric Rochard, CEMAGREF, Estuarine ecosystems and diadromous fish unit, France
Pritpal Singh Soorae, Program Officer IUCN Re-introduction Specialist Group, United
Arab Emirates
Tom Worthington, University of Southampton, UK

Venue

Düsseldorf is a bustling Rhine metropolis right in the heart of Europe, offering many attractions for both residents and visitors. The famous old town has the longest bar in the world, traditional breweries, museums and shopping districts all situated close to the beautiful Rhine Promenade.



The conference venue is a modern hotel and convention centre close to Düsseldorf International Airport and Central Railway Station. The FFFZ Hotel and Convention Center offers its guests an individual space for work and meetings. It is the ideal place for conferences, conventions or overnight stays. Situated in a quiet, central location with excellent public transport links goes the FFFZ combines a cultured atmosphere with modern conference facilities.

Place: http://dd.nethotels.com/dd/english/ffz_Düsseldorf/



1-4 September 2009 - Düsseldorf Germany

Social Evening

The evening banquet will be held in the famous Aquazoo Löbbecke Museum in front of the large shark and coral reef tanks. Attendees will have the unique chance to explore the Aquazoo during off-hours.

Website: <http://www.Düsseldorf.de/eng/aquazoo/index.shtml>



Post Conference Excursions

Salmon Restoration at the River Rhine - Rhine Excursion (4 September 2009)

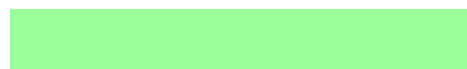
!NEW Programme!

Due to cooperation with the water monitoring department of the State Agency for Nature, Environment and Consumer Protection in North Rhine Westphalia, Germany (LANUV) we were able to charter the research vessel "Max Prüss" for the excursion. After the departure the Max Prüss will head upstream, pass the city of Düsseldorf and visit the "Media harbour" with the famous modern architecture. After that, staff of the LANUV will explain the Salmon Restoration Programme and the regular research and monitoring activities conducted on the Max Prüss" in theoretical and practical demonstrations. Lunch will be served on board. During the excursion you will get an overview of the typical Rhine morphology of the Lower Rhine Area.

Departure Düsseldorf 4 September at 9 a.m. near the conference venue at the River Rhine. Return to Düsseldorf around 3 p.m.

Max. number of persons: 20

Total cost including lunch: 30 Euro



2-day Rhine Delta Excursion (4-5 September 2009)

On this 2-day Rhine Delta Excursion organized by the Sportvisserij Nederland and Rijkswaterstaat (Dutch Ministry for Water Affairs and Transport) you have the unique opportunity to explore the Rhine delta with "behind the scene" visits to the Dutch storm surge barriers, modern fish passages, nature development projects and the monitoring of diadromous fishes. Overnight stay will be in a hotel in the beautiful village Renesse in walking distance to the North Sea.

Departure Düsseldorf 4 September at 8. a.m. (by bus).

10 a.m. Arrival at Maurik at the River Lek, fish passage and weir

2 p.m. Stormvloedkering Maeslant (mobile storm surge barrier) near Rotterdam

5. p.m. Sight seeing Europoort (mouth of the River Rhine)

Overnight stay in the beautiful village Renesse close to the North Sea. Presentation of fish monitoring projects in the Netherlands

5 September

8:00 a.m. Visit Haringvlietdam, "Behind the scenes" visit of the huge storm surge barrier, demonstration of the monitoring system for migratory fishes.

10:30 Herring tasting!

12 a.m. Visit Kinderdijk, sightseeing of typical dutch windmills

Return to Düsseldorf 5 September at app. 3-4 p.m.

Max. number of persons: 20

Total cost including lunch, hotel with breakfast : 90 Euro

Language

The official conference language will be English. Regrettably, no translation facilities will be available.

Conference Fee

As a result of funding obtained from the European Commission and other sources, the standard cost to participants is only 180 EURO. A reduced conference fee of 100 Euros is available for students.

The conference fee includes registration fee, lunch, refreshments during sessions and social programme (ice breaker, social evening) and a copy of the conference proceedings and a full programme booklet.

Accommodation in Düsseldorf is available at 50-90 Euros/night.

Registration and payment

Registration will be completed by full payment of the conference fee and the submission of the registration form. Registration is possible via mail, email or fax. Upon submission of your registration form, you will receive an invoice and complete



payment information. **Registration will be possible until 14 August online or during the conference each day in the morning.**

Payment should be made by bank transfer to LANUV NRW, a/c 41001256, "Fish Restoration 09 your name" at Sparkasse Attendorn-Lennestadt-Kirchhundem, routing number (BLZ) 46251630, international bank account number (IBAN) DE10 4625 1630 0041 0012 56, Bank Identifier Code (BIC) WELADED1ALK. Participants must cover all banking fees.

A registration form will be available at: www.alosa-alosa.eu

Cancellation of registration

Dates	Cancellation fee
after 3 August	40% of conference fee
after 15 August	60% of conference fee
after 27 August	80% of conference fee

Accommodation

Accommodation can be booked online via - Düsseldorf Marketing & Tourismus GmbH - Business Travel & Convention Service. A limited number of rooms are available in the FFFZ Hotel and Convention Center where the conference takes place. Availability of these rooms is on a first come, first served basis, so we recommend booking early. A large variety of hotels will be available during the conference. We have listed a number of hotels on the registration form which are in the 50-90 Euros price range and close to the conference venue.

All hotel offers for Düsseldorf are bookable online.

Please check out the following links:

German: http://business.Düsseldorf-tourismus.de/restoration_of_fish_populations.html

English: <http://business.Düsseldorf-tourismus.de/index.php?id=4329&L=1>

HOTEL BOOKING

Düsseldorf Marketing & Tourismus GmbH

- Business Travel & Convention Service -

Fon +49 (0) 211 / 17 20 2 -839

Fax +49 (0) 211 / 17 20 2 -3221

messe@dus-mt.de

www.Düsseldorf-tourismus.de/business



Travel

The conference venue is close to Düsseldorf International Airport and Central Railway Station and can easily be reached by one of the following possibilities.

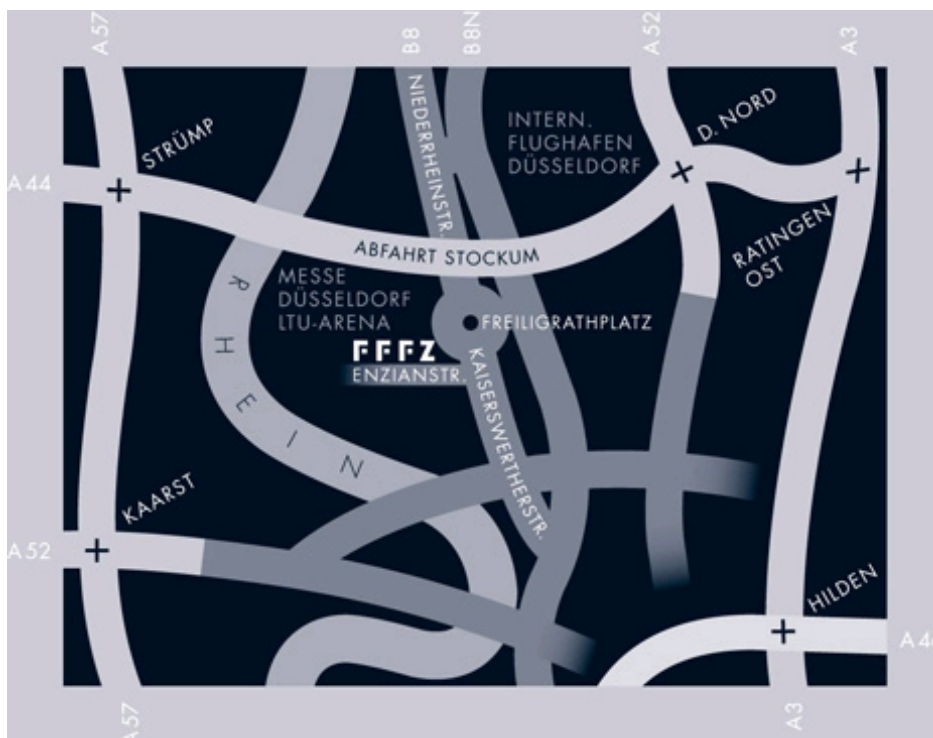
By underground from central station (Düsseldorf HBF):
Lines U78 or U79, get off at "Freiligrathplatz".

By bus from the Düsseldorf airport
Bus No 760 (direction: D-Schloss Kalkum), get off at "Freiligrathplatz" (app. 6 minutes)

By taxi from the Düsseldorf airport: around 12-15 Euros.

By car:
Motorway A44, Exit "Düsseldorf-Stockum"

Route planner:
Map24.de, Shell.de, ADAC.de



Congress Website and Further Information

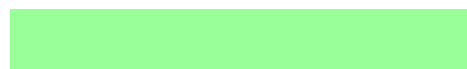


www.alosa-alosa.eu

Expression of interest/enquiries:

The organisers welcome enquiries from potential participants. Messages to Peter Beeck:

Peter Beeck, Stiftung Wasserlauf, Life Maifisch, Aquazoo Löbbecke Museum
Kaiserswerther Strasse 380, 40200 Düsseldorf, Germany, phone: +49 211 8996 160,
fax: +49 211 8994 493, Email: Peter.Beeck@wasserlauf-nrw.de



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