

Activity Report 2011

WasserCluster Lunz – Biologische Station GmbH



Research projects
Working group profiles
Publications
Presentations and
Miscellaneous activities
Awards
Scientific events
Teaching
Press releases

Summary of the scientific activities at WasserCluster Lunz – Biologische Station GmbH

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Highlights of the year 2011

In the year 2011 a major enlargement of the institute took place. The second building - the former Biological Station Lunz - was re-constructed and the official opening was in September 2011. Since the end of the year the 2nd building is in use and beside the 4th working group scientists from the partner universities will work there. Furthermore the selection for the 4th working group was successfully finalized and Dr. Robert Ptacnik will start as new working group leader in 2012.

In 2011 a new WCL seminar series was established presenting current research of the working groups at WCL and research of invited guest scientists.

Research

In 2011 19 research projects formed the basis for the aquatic ecosystem research addressing fundamental and applied research topics. Out of these, 11 projects were based on competitive funding sources from FWF (6 projects) and EU – FP7 (3 projects). In these projects 40 scientists and students were working and published 13 ISI referenced articles and 2 articles of other categories. The results have been presented in more than 20 presentations at several major international conferences, meetings and workshops. In total 3 Msc students graduated successfully and one international PhD student based on the research performed at WCL.

In line with the LTER research program at WCL, ExtremAqua, WCL joined the global network GLEON and a continuous research program focussing on hydrological extreme events (high flows) was established at the 3 sites (Oberer Seebach and Lake Lunz in the LTSE platform Eisenwurzen, and the Lobau and Orth floodplain in the Alluvial Zone Nationalpark Donau-Auen along the Danube River downstream Vienna) and will lead to first results to be published in the coming years.

Education

In 2011 21 courses took place at WCL, out of these 16 were university courses and 2 international postgraduate courses. In nine courses scientists of WCL were contributing or had a lead role in teaching. In total 681 students attended these courses and made WCL an important location for several university programs. Research – education – cooperation activities have been continued successfully in 2 projects with several schools and 2 courses were held establishing research based project weeks for schools.

Other activities

For the first time in Austria, WCL initiated the platform "Forum WASSER" that aims to connect aquatic research of Austrian universities and research institutes with a wide range of beneficiaries, including human health, political decision makers, drinking water supply, hydropower, etc. Forum WASSER is designed to address current issues of water as resource and habitat that require scientific and societal solutions. The first Forum WASSER united aquatic scientists, officials of drinking water supply and human nutrition, as well as policy makers. For 2012, another symposium of Forum WASSER is planned.

Public outreach

In 2011 more than 30 press releases (print media, TV and radio broadcasts) mentioning WasserCluster Lunz were recorded. A regular newsletter was published twice in 2011 and was established as regular information for the wider public. A new homepage was developed and launched in February 2012.

Projects

Ongoing projects

BERG (Biofilm and Ecosystem Research Group - Battin)

- PRIME (FWF, PI: Battin) 2011-2013, 400 kEur total budget,
- PRIMA (Marie Curie Fellowship, PI: Battin) 2011-2014; 170 kEur total budget
- Impact of gravel pit lakes (States of Lower Austria, Upper Austria, Styria; Forum Rohstoffe, PI: Battin, Hofmann, Kainz) 2008-2011, 421 kEur total budget, 135 kEur WCL
- Architecture of carbon flows through fluvial networks - ARCARNET (BMWf- FWF PI: Battin) 2009-2012, 540 kEur total budget

BIOFRAMES (Biochemical Functions: Research and Management in Ecosystems at multiple Scales - Hein)

- Tools for supporting the sustainable management of freshwater wetlands with special regards to their roles in drinking water supply, sanitation, livelihood, and ecological restoration - WETWIN (FP7, EC, WPL: Hein) 2008 – 2011, 2.4 mEur total budget, 280 kEur WCL
- ProFor (ETC, EC, PI: Hein) 2009 – 2011, 600 kEur total budget, 240 kEur WCL
- Natura 2000 (Gov. Lower Austria, EU Funds, PI: Hein) 2009 – 2011, 60 kEur
- Wespe (Sparkling Science, BMWf, PI: Hein) 2009 – 2011, 170 kEur total budget, 95 kEur WCL
- Lobau 2020 (MaB, Austrian Academy of Sciences, PI: Arnberger/BOKU, Co-PI: Hein) 2008 – 2011, 150 kEur total budget, 25 kEur WCL
- ALGFLO (FWF, PI: Hein, Co-PI: Striebel) 2011 – 2014, 295 kEur total budget
- Floodplain restoration Lobau (Water management Vienna, PI: Hein) 2011, 200 kEur budget
- CANFlood (FWF P 19907-B17, 2007 – 2011, 272 kEur, PI: Hein)

LIPTOX (Lipid and Toxicology Research Group - Kainz)

- Ostarrichi Fisch – Identification of essential dietary constituents versus potentially toxic compounds in aquatic food webs, 2009 – 2011, 150 kEur, PI: Kainz)
- CARP - Diet effects on fatty acids and methyl mercury in common carp (FWF, PI: Kainz), 2008-2012, 270 kEur
- INTERACT (EU, PI: Kainz), 2011-2013, 31 kEur

- Impact of gravel pit lakes (States of Lower Austria, Upper Austria, Styria; Forum Rohstoffe, PI: Kainz, Hofmann, Battin), 2008 – 2011, 421 kEur total budget, 135 kEur WCL
- LIPTEMP – Temperature and diet effects on Daphnia lipids and fitness (FWF, PI: Kainz), 2009-2012, 287 kEur
- “Äsche” - Schwallbetrieb Drau/Möll (PI: Kainz), 2011, 24 kEur
- Food webs of riverine waterholes (Government of Queensland, PI: Kainz), 2011-2012, 50 kEur

Joint projects

- ExtremAqua Extension 2011 (BMWF, PI: Battin, Hein, Kainz) 50 kEur

Working group profiles

BERG

- 5 postdocs
Mia Bengtsson, University of Stockholm
Katharina Besemer, WCL / University of Vienna
Nancy Burns (University of Edinburgh)
Hannes Peter (Uppsala University)
Gabriel Singer, WCL / University of Vienna
- 4 PhD students
Christina Fasching, WCL / University of Vienna
Iris Hödl, WCL / University of Vienna
Karoline Wagner, University of Vienna
Andreas Weilhartner, WCL / University of Vienna
- 5 MSc students
Martina Adelboller, University of Vienna
Franz Dunkl, University of Vienna
Sabrina Hengsberger, University of Vienna
Kristin Rath, University of Vienna
Judith Rosentreter, University of Vienna

BIOFRAMES

- 2 postdocs
Maren Striebel, WasserCluster Lunz / BOKU Vienna
Peter Winkler, WasserCluster Lunz / BOKU Vienna
- 2 Senior researcher
Walter Reckendorfer, WCL
Gabriele Weigelhofer, WCL / BOKU Vienna
- 3 Research assistants
Jennifer Fuchsberger, WCL
Andrea Funk, WasserCluster Lunz
Matthias Mair, BOKU Vienna

- 5 PhD students
Iris Baart, WCL / BOKU Vienna
Elisabeth Bondar, WCL / BOKU Vienna
Radhia Ideva, University of Vienna
Stefan Preiner, WCL / BOKU Vienna
Nina Welti, WCL / BOKU Vienna

- 6 MSc students
Manuel Felkl, University of Vienna
Christina Gaitzenauer, BOKU Vienna
Andreas Ganglbauer, University of Vienna
Stefanie Schabhüttl, University of Vienna
Iris Schönbrunner, University of Vienna
Bernadette Teufl, University of Vienna

LIPTOX

- 1 postdoc
Apostolos Koussoroplis, WasserCluster Lunz
- 3 PhD students
Francine Mathieu, WCL / University of Vienna
Julia Nußbaumer, WCL / University fo Vienna
Sebastian Schultz, WCL / University of Vienna
- 4 MSc students
Markus Böhm, University of Vienna
Brigitte Koderbauer, University of Vienna
Mariella Martinz, University of Vienna
Katrina Zsifkovits, BOKU Vienna

Publications

ISI referenced journals

BERG

Cotner, J.B., Hall, E.K. (2011): Comment on “A bacterium that can grow by using arsenic instead of phosphorus. *Science*, 332(6034): 1149.

Hödl, I., Hödl, J., Wörman, A., Singer, G., Besemer, K., Battin, T.J. (2011): Voronoi Tessellation Captures Very Early Clustering of Single Primary Cells as Induced by Interactions in Nascent Biofilms. *Plos ONE* Vol. 6, Issue 10, e26368

Fasching, C., Battin, T.J. (2011): Exposure of dissolved organic matter to UV-radiation increases bacterial growth efficiency in a clear-water Alpine stream and its adjacent groundwater. *Aquatic Sciences, Aquatic Science* , doi 10.1007/s00027-011-0205-8

Franklin, O., Hall, E.K., Kaiser, C., Richter, A., Battin, T.J. (2011): Optimization of biomass composition explains microbial growth-stoichiometry relationships. *American Naturalist* 177: E29-E42.

Singer, G., Besemer, K., Hochedlinger, G., Chlup, A.-K., Battin, T.J. (2011): Monomeric carbohydrate uptake and structure-function coupling in stream biofilms. *Aquatic Microbial Ecology* 62: 71-83.

Hall, E.K., Singer, G., Pölzl, M., Hämmerle, I., Schwarz, C., Daims, H., Maixner, F., Battin, T.J. (2010): Looking inside the box: Using Raman microspectroscopy to deconstruct microbial biomass stoichiometry one cell at a time. *ISME Journal* (2011) 5:196-208.

BIOFRAMES

Weigelhofer, G., Fuchsberger, J., Teufl, B., Welti, N., Hein, T. (2011): Effects of Riparian Forest Buffers on In-Stream Nutrient Retention in Agricultural Catchments. *J. Environ. Qual.* 40: 1–7. doi:10.2134/jeq2010.0436

Weigelhofer, G., Hein, T., Kucera-Hirzinger, V., Zornig, H., Schiemer, F. (2011): Hydrological improvement of a former floodplain in an urban area: Potential and limits. *Ecological Engineering* 37: 1507 – 1514. doi:10.1016/j.ecoleng.2011.05.005

Tritthart, M., Welti, N., Bondar-Kunze, E., Pinay, G., Hein, T., Habersack, H. (2011): Modelling highly variable environmental factors to assess potential microbial respiration in complex floodplain landscapes. *Environ Modell Softw.* 2011 26(9): 1097-1111

LIPTOX

Taipale, S., Kainz, M., Brett, M. T. (2011): Diet-switching experiments show rapid accumulation and preferential retention of highly unsaturated fatty acids in *Daphnia*. *Oikos*. 120: 1674-1682

Mariash, H. L., Cazzanelli, M., Kainz, M., and Rautio, M. (2011): Zooplankton nutrient sources and lipid retention in subarctic ponds. *Freshw. Biol.* 56:1850-1862

Bec, A., Perga, M.E., Koussoroplis, A.M., Bardoux, G., Desvillettes, C., Bourdier, G., Mariotti, A. (2011) Assessing the reliability of fatty-acid-specific stable isotope analysis for trophic studies. *Methods in Ecology and Evolution* 6: 651-659

Koussoroplis, A.M., Bec, A., Perga, M.E., Koutrakis, M., Desvillettes, C., Bourdier, G. (2011) Transfer of essential fatty acids in the food web of a coastal Mediterranean lagoon: evidence for high retention of arachidonic acid (20:4n-6) in fish. *Estuarine, Coastal and Shelf science* 91: 450-461

Other publications

BIOFRAMES

Welti, N., Bondar-Kunze, E., Tritthart, M., Pinay, G., and Hein, T. (2011): Nitrogen dynamics in complex river floodplain systems: effects of restoration. *River Systems*. DOI: 10.1127/1868-5749/2011/0047

Weigelhofer, G., Fuchsberger, J., Teufl, B., Kreuzinger, N., Muhar, S., Preis, S., Schilling, K., Hein, T. (2011): Einfluss der Hydromorphologie auf den Nährstoffrückhalt in Weinviertler Bächen – Schlussfolgerungen für das Gewässermanagement. *Wasser- und Abwasserwirtschaft* 9/10: 2-8. ISSN 0945-358X .

Presentations and Seminars

BERG

Battin, T.J. (2011): Microbial biofilms: A heaven for terrigenous carbon. International Symposium on Soil Organic Matter. Leuven, Belgium, July 2011

Battin, T.J. (2011): The biogeodynamics of microbial landscapes. AGU Fall Meeting, San Francisco, December 2011

Battin, T.J. (2011): Structure and processes of stream microbial biofilms. University of Geneva, Switzerland, November 2011

Battin, T.J. (2011): Stream biofilms: Structural beauty and consequences, INRA, Thonon-les-Bains, France

BIOFRAMES

Arnberger, A., Eder, R., Taczanowska, K., Hein, T., Deussner, R., Kempter, I., Nopp-Mayr, U., Stanzer, G., Preiner, S., Reiter, K., Wagner, I. (2011): Das Projekt "Perpektive Lobau 2020": Welche Perspektiven gibt es für die Lobau im Jahr 2020?. Forschungsband im Nationalparkhaus, 18.10.2011, Wien

Arnberger, A., Eder, R., Taczanowska, K., Hein, T., Deussner, R., Kempter, I., Stanzer, G., Preiner, S., Reiter, K., Wagner, I. (2011): Simulating recreation behavior of visitors to an urban biosphere reserve using a visual discrete choice experiment. NERR 2011, April 10-12, Bolton Landing, NY

Hein, T. (2011): Importance of hydrological exchange conditions on floodplain processes. , Wetlands Along The Lower Danube: Functioning, Modeling, Conservation And Management, MAY 17-20, 2011, Sofia, BULGARIA

Hein, T; Bondar-Kunze, E.; Habersack, H.; Pinay, G.; Schiemer, F.; Tritthart, M.; Welti N. (2011): Restoration measures in large regulated rivers and their floodplains: potential effects on algal productivity and nutrient cycling. , River Corridor Restoration Conference - RCRC11, March 13 - 18, Ascona, Schweiz

Hein, T; Bondar-Kunze, E; Welti, N; Preiner, S; Tritthart, M; Weigelhofer, G; Pinay, G. (2011): Effects of changed hydrological connectivity on nutrient cycling of floodplains. , 2nd Biennial Symposium of the International Society for River Science ISRS, AUG 8-12. 2011, Berlin, GERMANY

Hein, T; Striebel, M. (2011): Trophischer Zustand der Donau als Fallbeispiel und Rolle von Retentionsräumen und Auen für die Planktonentwicklung. , DWA-Fachgespräch: Eutrophierung potamaler Fließgewässer, MAY 31, 2011, Koblenz, GERMANY

Hein, T; Winkler, P; Douven, W; Sanon, S. (2011): Quantifying Ecosystem Service Trade-Offs: The Case Of An Urban Floodplain In Vienna, Austria. , Joint Meeting of the Society of Wetland Scientists, Wetland Pollutant Dynamics and Control (WETPOL), and Wetland Biogeochemistry Symposium, JUL 4-8, 2011, Prague, Czech Republic

N. Welti, E. Bondar-Kunze, M. Mair, P. Lachouani, W. Wanek, P. Bonin, G. Pinay, and T. Hein (2011): Reconnection of Danube Floodplains Effects on Nitrogen Cycling. , River Corridor Restoration Conference - RCRC11, March 13 - 18, 2011, Ascona, SWITZERLAND

Preiner, S.; Hein, T. (2011): Effect of flood pulses on primary production patterns in River Danube floodplains In: Habersack, H., Schober, B., Walling, D. (Eds.), International Conference on the Status and Future of the World's Large Rivers, Conference Abstract Book, ISBN: 978-80-7399-518-8

Preiner, S.; Schönbrunner, I.; Hein, T. (2011): Effect of flood and flow pulses on primary production patterns in an urban riverine floodplain of the River Danube, Austria. In: COST Action 869, Realistic expectations for improving European waters, S. 50

Weigelhofer, G.; Fuchsberger, J.; Teufl, B.; Welti N.; Hein T. (2011): Stream degradation affects nitrogen cycling in nutrient-enriched headwater streams. , SEFS 7 – Symposium for European Freshwater Sciences, JUN 27 – JUL 1, 2011, Girona

LIPTOX

Kainz, M.J., Heissenberger, M., Koussoroplis, A.-M., Martinz, M., Nussbaumer J., Schultz, S., Watzke, J. (2011): Can diet predict fatty acid profiles in aquatic consumers? – Scrutinizing fatty acid retention of organisms at various trophic levels. Symposium for European Freshwater Sciences. Girona, June 2011.

Mathieu, F., Watzke, J., Müllegger, C., Weilhartner, A., Kainz, M.J. (2011): How do young, artificial lakes affect food quality and fatty acid composition in zooplankton? Symposium for European Freshwater Sciences. Girona, June 2011.

Nußbaumer, J., Kainz, M.J. (2011): Temperature and biodiversity effects on freshwater algae fatty acids. Symposium for European Freshwater Sciences. Girona, June 2011.

Miscellaneous Activities

Completed PhD theses 2011

BIOFRAMES

Radhia Ideva, “Nutrient Dynamics of the Kihansi River”. Vienna University (April 2011)

Completed MSc theses 2011

BIOFRAMES

Manuel Felkl „Nahinfrarotspektroskopie zur Charakterisierung von Sedimenteigenschaften im Nationalpark Donauauen“, Vienna University (March 2011)

Stefanie Schabhüttl “Combined effects of temperature and biodiversity on phytoplankton communities”, Vienna University (June 2011)

Iris Schönbrunner, “Impact of drying and re-flooding of sediment on the phosphorus dynamics of river-floodplain systems”, Vienna University (November 2011)

Awards

Nina Welti Centro Stefano Franscini Award

Guest researchers/lecturers

Dr. Michael T. Brett (January 2011)
Prof. Brian Moss, Univ. Liverpool (March 2011)
Prof. Alexander Wacker, Univ. Potsdam (April 2011)
Dr. Christoph Matthaei, Univ. Otago (June 2011)
Dr. Maguerite A. Xenopoulos (December 2011)

Summer interns

BIOFRAMES

Anna Hinterreither (Josephinum Wieselburg) – nominated for FFG internship Award
Leo Kirchmaier (Student BOKU Wien)

Rosalie Lorenz (HBLVA f. chem Industrie Wien) – nominated for FFG internship Award

BERG

Armin Hiessberger (Student TU Graz)
Daniel Lueger (HLUW Yspertal)
Anna Teufl (Student Vienna University)

LIPTOX

Christian Puhr (HLUW Yspertal)
Christopher Reichhold (HLUW Yspertal)

Scientific events and teaching at the WCL

University courses

19 – 21 January 2011: University of Vienna - class exercise “Meeresbiologie” – course no. 300218, leader Gerhard Herndl (16 participants)

28 March – 30 April 2011: University of Vienna – course no. 300315, leader Katharina Besemer (10 participants)

2 – 18 May 2011: BOKU – „Course Lunz I – Übungen“ – 4 courses – course no. 812101, 812103, 812106 and 812109, leader Matthias Jungwirth (292 participants)

23 – 25 May 2011: University of Vienna - Umweltchemische Übungen – course. no. 270188, leader Franz Jirsa (10 participants)

7 – 10 June 2011: University of Vienna – Spezielle Kenntnis Schutzgüter – course no. 300173, leader Georg Grabherr (29 participants)

14 – 15 June 2011: University of Vienna – Seminar for Masters, Diploma and PhD-students in Genetics in Ecology - course no. 300724, leader Christa Schleper (25 participants)

20 – 24 June 2011: BOKU – „Einführung in die Hydrobiologie“ – course no. 812007, leader Thomas Hein and Gabriele Weigelhofer (28 participants)

4 – 8 July 2011: University of Vienna – „Praktikum Umweltgeowissenschaften: Angewandtes Gelände & Laborpraktikum“ – course no. 280070 – leader Thilo Hofmann (10 participants)

13 – 24 August 2011: University of Vienna „Aquatische Biozönosen“ - course no. LV 300295 – leader Johann Waringer (10 participants)

26-30 September 2011: BOKU – „Fish ecological special course“ course no. 812306 – leader Günther Unfer (30 participants)

3 – 7 October 2011: BOKU - „Limnochemistry“ – course no. 812341– leader Thomas Hein (12 participants)

10 – 13 October 2011: BOKU – “Biologische Gütebeurteilung von Fließgewässern (Lunz II)” – course no. 812319 – leader Otto Moog (21 participants)

10 – 14 October 2011: BOKU – “Limnology” – course no. 812340 – leader Thomas Hein (14 participants)

10 – 14 October 2011: University of Vienna – „Übungen im Präparieren und Bestimmen von eiszeitlichen Tierresten” – course no. 300716 – leader Gernot Rabeder (17 participants)

17 – 19 October 2011: University of Vienna – “Diversität der Moose” – course no. 300658 – leader Harald Zechmeister (13 participants)

14 – 18 November 2011: University of Vienna – “Präparation von Eiszeittieren” – course no. 300716 – leader Gernot Rabeder (14 participants)

Post-graduate programs and Research-education-cooperations

22 – 27 May 2011: Lernzentrum Walz - course in Limnology - leader Iris Hödl (16 participants)

7 – 9 June 2011: HLFS Ursprung – course in Limnology - leader Gabriele Weigelhofer (26 participants)

3 June – 24 June 2011: International Post-Graduate Course in Limnology (IPGL) module “Microbial Communities & Ecosystem Functioning” - leader Iris Hödl (8 participants)

27 June – 01 July 2011: International Post-Graduate Course in Limnology (IPGL) module “Conservation and restoration ecology” - leader Thomas Hein & Nina Welti (8 participants)

26 June – 1 July 2011: Landesakademie/BOKU - MSc Course Management/Umwelt – leader Susanne Bäuerl (16 participants)

Workshops and other activities

18 – 19 January 2011: Workshop project “Profor”. Thomas Hein, Gabriele Weigelhofer

13-16 June 2011: Scientific Workshop of WCL Latitudinal diversity gradient and spatial / temporal turnover (Maren Striebel and Nina Welti) with guest researcher Robert Ptacnik and Radka Ptacnikova

13 – 14 July 2011: Workshop project “Profor”. Thomas Hein, Gabriele Weigelhofer

21 October 2011: “Forum Wasser” – First symposium “Forum Wasser” in Wieselburg. Martin Kainz.

Press release

NÖN - March 2011 – „Bestes Zeugnis für Cluster“ - Evaluation of WasserCluster Lunz

derStandard.at - 9 April 2011 – „Der Bach, ein Superorganismus“ - Profile on Tom Battin and his working group on their work with organic carbon

NÖN Nachrichten - April 2011 – „Forschungstransfer durch Beteiligung“

NÖN - May 2011 – „Jungforscher unterwegs“ – “young scientists” of Neue Mittelschule Eichgraben research the environment together with WasserCluster Lunz

NÖN – June 2011 – „Vom Lunzer See zum Regenwald“ – workshop at WasserCluster Lunz about Biodiversity; guest scientist Rober Ptacnik.

NÖN – June 2011 – „Natur-Schulbox getestet“

ORF.at - 3 June 2011 – “Heimische Fische seit Fukushima sehr gefragt” - a report of our domestic fish following the nuclear catastrophe in Fukushima

ecoplus - June 2011 - Profile on the WasserCluster Lunz

Bezirksblätter - 6 July 2011 - "Biologische Station erweitert" - reopening of the renovated Biological Station in Lunz

Bezirksblätter – July 2011 – „Speisefisch auf Erfolgskurs“ – „Ybbstalforelle“ – meeting at WasserCluster Lunz

NÖN – August 2011 – „Höchste Qualität für Genussprodukt“

APA – August 2011 – „WasserCluster Lunz eröffnet Biologische Station“ – Open ceremony of Biologische Station (WasserCluster Lunz) on 11 September 2011

Kurier (NÖ West) - 5 September 2011 - "Forschen mit Postkarten-Image" - WasserCluster Lunz reanimates the "Ötscher"-region

Tips - September 2011 - "Wir haben nur den einen Planeten" - Interview of Thomas Hein about biodiversity

Die Presse am Sonntag - 11 September 2011 - "Rätsel Wasser Schwall, Fett und Biofilme" - reopening of the Biological Station

NÖN - September 2011 - "Lunz ist Zentrum des Wissens ums Wasser" – Biological station is the new centrepiece of WasserCluster Lunz

Bezirksblätter – September 2011 – „Rettung aus Lunz für unser Wasser – Biologische Station für Lunz“ – report about Biological Station Lunz

NÖN – October 2011 – „Australia goes Austria: Wenn Queensland in Lunz forscht“ – Research cooperation between Queensland and Lunz

NÖN – October 2011 – „Wasser ist unser kostbarstes Gut“ – Symposium of scientific Experts

Bezirksblätter Scheibbs – October 2011 – „Wasser für unsere Zukunft“ – First meeting to the symposium „Forum Wasser“

NÖN – October 2011 – „Wichtigkeit der Wasserqualität“ - Scientists and politicians discuss about water and future

noe.ORF.at – October 2011 – „Fischzüchter fordern mehr Forschung beim Futter“

ORF.at - October 2011 - "Forscher diskutieren Zukunft des Wassers" - Scientists and politicians discuss about water and future

TIPS - October 2011 - "Heute Probleme von morgen lösen" - Solve today problems of tomorrow

Bezirksblätter - November 2011 - "Junge Biologen als Forscher - Learning by doing" a secondary-school workshop at WasserCluster Lunz

NÖN – November 2011 – „Morphologie am Lunzersee“

Radiokolleg – September 2011 – Radio Interview of Thomas Hein (WasserCluster Lunz) about management of aquatic ecosystems.

NÖN – November 2011 – „EU für Generation 50+“ – Regionalmanagement Mostviertel invites to a discussion at WasserCluster Lunz

Die Presse am Sonntag - 13 November 2011 - "Reines Blut und Wasser" - collaboration of Danube University Krems and WasserCluster Lunz

Die Presse am Sonntag – 13 November 2011 – „Labors in Lunz“ - Reopening of the Biological Station Lunz

Kurier – 28 December 2011 - „Der Karpfen ist besser als sein Ruf“