



UfU  
Independent Institute for  
Environmental Issues

# UfU Environmental Research and Public Participation

Annual report  
2009 & 2010



Iken Draeger and Florian Kliche at the summerschool 2010 in Erkner



Visit of the exhibition "Examples to follow"



"Fishbowl!" at the summerschool 2010 in Erkner



GASAG Energy Cup 2010

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Iken Draeger with "Klimaballon", Summer of sciences in Magdeburg



Franziska Sperfeld and Michaela Valentova at the SÖF-Summerschool in Erkner 2010



World Café: Participants of the "World Café" in the course of the project HyTrust

## UfU – A remarkable, likeable institution

For many east German institutions, 2010 marked their twentieth birthday. UfU is among them. But it is also true that since then many of them, including applied science establishments, have ceased operations or have markedly cut back on their activities. UfU – and this is said in praise – has undergone development in the opposite direction. In the course of the 20 years it has become an important social-ecological research institution within the Federal Republic of Germany. This is remarkable from several points of view. Because it shows, on the one hand that the basic approach of UfU, combining environmental science with practical environmental protection measures, is obviously the right one. And on the other, that it is possible to establish a recognized scientific institution, even under adverse circumstances.

The present annual report documents the highly-developed breadth of content of the still young institute. The staff of UfU are working on many important topics. Frequently in a role that is apparently becoming more and more important for science and research: mediating between the public, on the one hand, and politicians on the other. UfU is more or less predestined for this mediator role: It still sees itself as deriving from the east German environmentalist movement, and is also firmly anchored in many local networks in the areas of environment protection, education, participation, and communication. In addition, over the years the staff of UfU have achieved respect and recognition in the west German scientific landscape too. The conduct of numerous studies, specialized conferences, and practical projects is evidence of the well-developed individual profile of a remarkable and likeable institution. In saying this, it should not remain unremarked that UfU is democratically organized and is recognized as a non-profit making association. New members and supporters continue to be welcome – you are invited here and now to join up.

**Prof. Dr. Udo E. Simonis**  
Scientific Advisory Board



## Dear Readers,

You are holding the new report of the Independent Institute of the Environment (UfU) for the years 2009 and 2010 in your hands. Two strong years which for UfU were full of projects, developments, and encounters. Two years which saw several new beginnings take place. UfU has now increased its number to 23 staff. Since 2009, the area of specialization established in 2008 after a reconstruction entitled "Resource protection and landscape ecology" has grown into a fully-fledged department within a very short time. By now, three departments with a total of six content orientations in the area of environmental and climate protection provide a comprehensive portfolio of various services. This is mirrored in the breadth of the professions in UfU. At UfU, environmental scientists, biologists, environmental technologists, and food technologists work alongside pedagogues, language specialists, lawyers, industrial engineers, sociologists, political scientists, graduates in German, and historians. In this way, we have created ideal conditions for interdisciplinary and cross-disciplinary research and training.

Today more than ever, the UfU slogan "Environmental science – for everybody" defines the activities and profile of the institute. This means carrying out numerous applied science projects both in Germany and abroad, and that in turn means starting pilot projects through which scientific findings and experiences lead to practical changes. In this way, at the Climate Protection and Environmental Education department in a project called Making renewable energies visible a network of 400 schools across Germany was formed and at the same time the conditions created for integrating local solar plants into school curricula in order to make it possible to integrate them into classroom teaching. At the Environmental Law and Participation department, for the first time in the Federal Republic of Germany a study on the application of the new Environmental Information Act was carried out using the method of retrospective estimation of the consequences of laws, and through this at the same time the strengths and weaknesses of the Environmental Information Act brought out. In the course of preparing the Climate Conference in Copenhagen in 2009, the Department "Resource Protection and Landscape Ecology" asked children about their views on climate protection using the focus groups method, and passed on the results to appropriate managers.

A few projects were started and carried out by us without any support from third parties. Finally, we are not only a scientific institute but also a community organization which is fully committed to climate and resource protection.

This report summarizes the significant projects of the years 2009 and 2010. A number of projects are described in somewhat greater detail, which does not mean that other projects would have been less interesting or less important. Going beyond the projects, you will obtain an overview of the financial development of UfU or of other key figures such as staff numbers. I hope you enjoy reading it.

**Yours truly, Michael Zschiesche,  
Executive Board Chairman**

## UfU's self-funded projects

### Institute magazine Themen und Informationen

No. 66: Topic: What will we focus on in the future?

No. 67: 20 years of UfU – 20 years of environmental protection in east Germany

No. 68: How can sustainable environmental education be carried out?

Contact [michael.zschiesche@ufu.de](mailto:michael.zschiesche@ufu.de) Project duration **three issues in 2009 and 2010**

### Renewable energies in conflict

Approximately 50 conflicts involving generation, transport, and storage of renewable energies were investigated and the reasons for energy conflicts, the development of the particular conflict, and attempts to resolve the conflicts examined.

Contact [rene.zimmer@ufu.de](mailto:rene.zimmer@ufu.de) Project duration **Starting 9/2010**

### Environmental protection, motor vehicles and advertising

How is car advertising in selected magazines changing in connection with environmental protection?

Contact [rene.zimmer@ufu.de](mailto:rene.zimmer@ufu.de) Project duration **from 11/2010**

### Mediathek environment and climate protection topics

#### Lecture series on the topic of local climate protection in Halle

Evening 6: "How does the European Parliament support climate protection at the municipal level?" with Gisela Kallenbach, Member of the European Parliament

Evening 7: "The 2009 STADTRADELN (city bike riding) Campaign – How can we help Halle get into the saddle?" (Halle won a prize in the Federal competition "City bike riding")

Evening 8: "Climate change in Sachsen-Anhalt: From vulnerability studies to adaptation strategies" with Prof. Dr. Christian Ehrlich, State Bureau for Environmental Protection

Evening 9: "Adaptation to climate change – a topic for children and young people?"

Evening 10: "The climate protection concept of the City of Halle – current status" with: Dr. Thomas Katterle, Environmental Office of the City of Halle

Evening 11: *For me. For you. For the climate.* The climate project of the Sachsen-Anhalt Consumer Center" with Martina Angelus, project leader at the Sachsen-Anhalt Consumer Center

Evening 12: "Bike riding in Halle – Progress and deficiencies in the city's bicycle path network"

Evening 13: "Sustainable energy supplies – Criteria and characteristics" with Prof. Dr. Hans-Ulrich Zabel, Martin Luther University, Halle-Wittenberg

Evening 14: "C2C – Cradle to Cradle – Pathways to a solar-powered recycling economy" with Graduate Engineer Detlef Schwager, Röblingen

Contact [katrin.schneider@ufu.de](mailto:katrin.schneider@ufu.de) Project duration **three lectures in 2009 and seven in 2010**

Location **Mediathek Halle**

### Internet platform for environmental information

Operating the Internet platform for exercising the right to environmental information. An up-to-date topic overview is available at [www.umweltinformationsrechte](http://www.umweltinformationsrechte)

Contact [michael.zschiesche@ufu.de](mailto:michael.zschiesche@ufu.de) Project duration **ongoing**

### Internet platform for implementing the Aarhus Convention

Operating the Internet platform for implementing the Aarhus Convention (agreement on environmental information, participation in approval hearings and access to courts) in Germany [www.aarhus-konvention.de](http://www.aarhus-konvention.de)

Contact [michael.zschiesche@ufu.de](mailto:michael.zschiesche@ufu.de) Project duration **ongoing**

### Study "Out-of-court settlement or court decision in environmental law group actions?"

Empirical investigation of the development and contents of settlements in suits by associations according to the laws on environmental protection and conservation of nature in Germany (presented at the German Conservation of Nature Day on September 30, 2010 in Stralsund; can be requested from UfU)

Contact [michael.zschiesche@ufu.de](mailto:michael.zschiesche@ufu.de) Partner **David Nature Foundation**

### ELAW and J&E

Contributing work for status reports in the international network [www.justiceandenvironment.org](http://www.justiceandenvironment.org), Contributing work for several papers of the J&E network, Participation in workshops and working meetings Contributions to the worldwide environmental law network Environmental Law Alliance Worldwide (ELAW), Active support of the environmental law network ELAW in the period from September 2010 to December 2010 in Eugene, Oregon

Contact [michael.zschiesche@ufu.de](mailto:michael.zschiesche@ufu.de)

### RGL – Legal protection against air and noise pollution

Legal advice for residents on protection against noise pollution in cities

Contact [martin.jaensch@ufu.de](mailto:martin.jaensch@ufu.de) Project duration **ongoing**

### Participation in the Climate Summit Copenhagen (COP 15)

Participation in Klimaforum09.

Contact [iken.draeger@ufu.de](mailto:iken.draeger@ufu.de); [meike.rathgeber@ufu.de](mailto:meike.rathgeber@ufu.de) Project duration **December 2009**

### Campaign in connection with the Climate Summit in Cancun (COP 16)

Invitation to schools to present their statements, wishes, and expectations from the COP 16 as poster illustrations. Delivery of the statements to the Federal Government.

Contact [iken.draeger@ufu.de](mailto:iken.draeger@ufu.de) Project duration **10/2010 to 12/2010** Partner **co<sub>2</sub>online**

### Mobile with regenerative energy

Support provided to the E-Ei-Team, a group of students from the Höhscheid Hauptschule (comparable with a junior high school), with their project (among other things at the Focus Competition, through exchanges of ideas with the teacher in charge, and through concepts on the development of a joint project) [www.e-ei.info](http://www.e-ei.info)

Contact [iken.draeger@ufu.de](mailto:iken.draeger@ufu.de) Project duration **ongoing**

## Department of Resource Protection & Landscape Ecology

Ever since human beings have existed they have made use of natural resources. These include water, soil, and air, as well as mineral reserves, natural habits, and the wide variety of living creatures. As a result of the continuing growth of the world economy, natural resources are being exploited beyond all measure. The consequence is dramatic damage to the environment.

The department of Resource Protection and Landscape Ecology is working on the question of how natural resources can be protected and at the same time sustainably used. At the heart of the matter is the question of what social, psychological, legal, ethical, and economic factors determine the possibilities and limits of resource conservation.

In looking at this question, we pay particular attention to the development, validation, and testing of instruments which support societal and individual decision making in resource conservation and exploitation. The concept of "instrument" encompasses scientific investigations, legal rules, pedagogical interventions, political discussions, and participatory procedures.

In our projects we show with which social-science instruments new technologies for protection of the environment can be closely and critically investigated and their applicability to everyday life tested. We carry out analyses of media, sector players, and networks, conduct in-depth qualitative interviews, focus groups and representative surveys, organize conferences open to the general public, and invite experts to scenario workshops.

HyTrust was the catalyst project which led to establishing the Resource Protection and Landscape Ecology department as our third major area at UfU. Since then, the number of staff has risen from the original two to currently eight men and women at the two sites, Berlin and Halle. Numerous other projects in which we examine questions of resource conservation and resource use from a social-science perspective have been added.

[www.hytrust.de](http://www.hytrust.de)

## HyTrust

Climate change, scarcity of resources and the incontrollability of nuclear power show that wind and solar energy need to be significantly expanded. Because energy from these sources fluctuates greatly in both time and location, good techniques for storing energy are needed. Hydrogen is a promising possibility for doing this. In the coming years, especially in transport, hydrogen will play a substantial role as a fuel.

HyTrust is examining the effects on society of the introduction of hydrogen and fuel-cell technology in the mobility sector. This change from fossil to renewable fuels will make itself felt all the way into daily life. This makes it even more important that the topic is not strictly the domain of "experts," but that the broad populace is involved. Even more important: It must be ensured from the very beginning that the changeover is accepted by everyone involved, be the manufacturers, distributors, or consumers. Trust plays a key role in this context. For these reasons, HyTrust is seeking answers to how strongly the hydrogen technology is accepted by the public, how familiarity with hydrogen technology and confidence in the players operating the technology come into existence and what would everyday life in a hydrogen society look like.

Well over 3,000 members of the public are involved in the project. How people feel about the topic is investigated in population surveys, so-called focus groups and individual interviews. Interested members of the public are given the opportunity in citizen's conferences of arriving at an opinion in discussions with each other and through support by experts.

## KORINA

### Early warning system and conception of measures against invasive neophytes in Sachsen-Anhalt

In conservation discussions, invasive plant varieties which have undesirable effects on other species, communities of living creatures, or biotopes are referred to as "invasive neophytes."

The overall goal of the project is the development and implementation of an early warning system, and the planning and development of measures to combat invasive neophytes in Sachsen-Anhalt (action program Invasive Neophytes). This includes the following aspects:

- Prevention
- Early identification, early warning, and rapid response based on an appropriate information system (including prevention of proliferation)
- Effective monitoring, control, and long-term containment
- Restoration of ecosystems damaged by invasive species to their natural state

In part 1 of the project, on the one hand, an example of an early warning system for invasive neophytes is to be worked out and tried out in several FFH areas of Sachsen-Anhalt. On the other hand, basic guidelines for collating information and evaluating outbreaks of invasive neophytes are to be developed.

Contact  
**rene.zimmer@ufu.de**

Project duration  
**09/2009–08/2013**

Financial support  
**Federal Ministry of Transport, Building, and Urban Development**

Project partners  
**InnoZ – Innovation Center for Mobility and Social Change Co Ltd, PIK – Potsdam Institute for Climate Change Research, ECF – European Climate Forum, Spilett new technologies, ITD – Institut für Transportation Design**

Contact  
**katrin.schneider@ufu.de**

Project duration  
**06/2010–09/2011**

Financial support  
**European Agricultural Fund for Rural Development (EAFRD) – Sachsen-Anhalt 2007–2013**

## Renewable energies in conflict

Because of their complexity and the frequency with which they arise, conflicts in nature conservation and environmental protection have become a topic continuously debated in politics. Large-scale construction measures whose impact transforms nature and the landscape or pose a potential threat to the environment regularly summon citizen's groups, environmentalist groups, and affected residents into the arena as participating actors. But even the widely welcomed expansion of renewable energy sources encounters opposition when, for instance, there are specific plans to build new wind generators, new high-voltage lines, or new biogas plants. There are often local protests from affected residents and the establishment of grassroots initiatives in opposition to the proposed projects. In the research literature it is common to speak in such cases of the NIMBY effect (not in my backyard). In this project, about 50 conflicts over generation, transportation, and storage of renewable energy are being investigated. On the basis of Internet researches and content analyses, the reasons for energy conflicts, the origins of the particular conflict, and attempts at solutions are being investigated.

Contact  
**rene.zimmer@ufu.de**

Project duration  
**ab 09/2010**

Financial support  
**Internal research project**

## Further projects

### E-Trust – Models and concepts for the future of electromobility

Social science analysis and reflection of social perceptions of electromobility.

Contact **nicole.luedi@ufu.de** Project duration **4/2010–6/2011** Financial support **Federal Ministry of Transport, Building, and Urban Development** Project partner **Spilett new technologies, ITD – Institute for Transportation Design**

### How do children and young people want to protect the climate?

Young people and children see the main responsibility for climate protection as lying with politicians and large corporations.

Contact **rene.zimmer@ufu.de** Project duration **9/2009–11/2009** Financial support **WWF Germany**

### Evaluation: Communication and cooperation in interdisciplinary, transdisciplinary and intercultural action research

In a German-Moroccan evaluation workshop current approaches to managing project workflows were investigated and suggestions made for improving processes.

Contact **rene.zimmer@ufu.de** Project duration **1/2010 to 6/2010** Financial support **Technical University, Berlin**

### Youth and mobility

What significance does mobility have in the everyday life of young people? Is there really a trend away from using cars?

Contact **joerg.welke@ufu.de** Project duration **from 10/2010** Financial support **Internal research project**

### SiteChar – Characterization of European CO<sub>2</sub> storage

How can processes of public opinion making related to the technology of carbon capture and storage (ccs) be supported in local areas. [www.hytrust.de](http://www.hytrust.de)

Contact **marta.kaiser@ufu.de** Project duration **Starting 7/2010–12/2013** Financial support **7. Research Framework Program of the EU** Project partners **ECN – Energy Research Center of the Netherlands; IFP – Energies nouvelles; among others.**



Only those who know their rights are in a position to exercise them. Only those who know how to participate are in a position to influence decision making. The Department of Environmental Law and Participation sees it as its task to achieve transparency and clarity in the legal jungle of environmental protection, and to start applied science projects which make it possible to check how environmental law is working in practice.

In numerous studies since 1991, department staff members have gathered empirical findings on the question of how members of the public utilize citizen's participation procedures. In addition to this, the department has also analyzed the rights and possibilities which exist for recognized environmental protection associations to participate. In several studies and projects it has been shown, among other things, how high the number of legal suits by associations has been in Germany, how successful they have been, as well as when associations seek settlements and what results are achieved with out-of-court settlements. An additional focus is monitoring the exercise of the right to environmental information in Germany. The relevance of the topic is demonstrated by the results of the Railway Station Project in Stuttgart.

In addition to empirical legal studies, the department also carries out informal citizen participation procedures. Among these are conferences for the general public, scenario workshops, World Cafés as well as future workshops. Thus, in 2006 the first public conference for the general public was planned and held on the topic of "Nanotechnology in Germany." In 2011 a further citizen's conference on nanotechnology and its effects on the environment and nature is taking place.

With its Web platforms, the organization of workshops and meetings, the department also functions as the interface between environmental protection groups and environment lawyers in Germany, as well as European and international activities. Two staff members are members of the worldwide environmental law network, ELAW, which brings together progressive environmental lawyers from 70 countries around the world. In addition, the department is a member of the European network E & J. The department sees its focus as being on Germany, but has numerous activities abroad. It is conducting environmental consulting projects on the topics of transparency, participation, and law in specific countries such as Moldavia, Croatia as well as Vietnam.

[www.aarhus-konvention.de](http://www.aarhus-konvention.de)

[www.umweltinformationsrechte.de](http://www.umweltinformationsrechte.de)

## Participation and Education on Climate Change

Since August 2008, the Environmental Law and Participation department has been conducting a cross-disciplinary, applied scientific project on the topic "Participation and education in the context of climate protection." Its core focus is on questions such as: How are citizens in different countries and regions integrated into the solution of the forthcoming problems in the area of climate protection? What forms of participation are basically open to citizens in environmental law procedures relating to climate protection? To what extent are the possibilities for participating in environmental law proceedings in connection with climate protection problems appropriate for communicating citizens' concerns? What contents are dealt with in the framework of climate protection education? What methods are employed for doing this? Which approaches to participation have been employed? How well known are they? Which competencies should be fostered (according to teachers)? Parallel to comprehensive desk research, so far three international summer schools in Erkner (twice) and Beroun near Prague as well as network meetings have been organized, and in addition research visits carried out and publications and lectures prepared. The three schools, conducted in English, were the highpoints of the project. The school in Beroun near Prague, for example, brought together scientists and environmental lawyers from six countries (Germany, the U.S., England, Wales, Ireland, Czech Republic and Austria) to discuss the topic of "Participation and climate protection." Over three days a variety of experiences were exchanged and questions discussed, such as: Does participation in the environmental protection area lead to more environment or climate protection? Renowned researchers on participation, such as Prof. Newig of the University of Lüneburg or Prof. Ekardt of the University in Rostock, gave inspirational lectures. In methodologically demanding practical formats, exercises and simulations on participation, democracy and climate protection from the point of view of different countries were carried out. In September, a further school on the topic "Education and climate protection" took place in Erkner. It focused on questions such as: What methods in environmental education achieve greater or lesser success in terms of education for sustainable development? Are there general criteria for successful educational projects, and if there are, what do they consist of? The school brought together scientists from five countries for three days. The project will be continued in 2011.

Contact  
**michael.zschesche@ufu.de**

Project duration  
**09/2008–12/2010**

Financial support  
**Federal Ministry for Education and Research (Research Program "Social-ecological research")**

## Dialogue

### Transparency and Participation in Environmental Protection in Moldavia

Together with the NGO, ECO-Tiras, the department has been conducting a consulting project on the topic of implementation of the Aarhus Convention in Moldavia since June 2009. The project is being supported financially by the consulting support fund of the Federal Department of the Environment. Drafts of laws involving all three pillars of the convention were worked out in a participatory process, which were presented and voted on in a working group in which the Moldavian Ministry of the Environment was also represented. Additional project building packages included the working out of an action plan for implementing the Aarhus Convention in Moldavia, a study visit to Germany by representatives of the Ministry of Justice, the Ministry of the Environment, the Chancellery and two representatives of Moldavian NGOs, advisory activities in connection with two participation procedures in Moldavia, and several seminars and workshops. The project will be presented at the conference of the signatory states to the Aarhus Convention in Chişinău in 2011.

Contact  
**franziska.sperfeld@ufu.de**

Project duration  
**since 06/2009**

Financial support  
**Federal Ministry for the Environment, Conservation and Reactor Safety**

## Scientific Principles for the Management of Contaminated Sites

The applied science project had the goal of guaranteeing a sustainable introduction of the methodological principles of land register technology at the Vietnamese implementation level, as well as basic methodological principles and practicable guidelines for the construction of a contamination register and consultation on the working out of a legal basis (administrative rules) for the introduction of land registry systems and preparation of instruments for soil protection.

The project was carried out from 2005 to 2009, mainly in Vietnam. On the German side, the Federal Environmental Agency, the State Environment Office of NRW, the firm MSP from Dortmund, and other scientists were involved. On the Vietnamese side, the Vietnamese Environment Office (VEA), the Environment Offices of various provinces such as Nam Dinh, and scientific organizations such as the Technical University of Hanoi were involved. The goals of the project were exceeded, and various lines of thought are now being extended on the Vietnamese side and in part in Germany too by the German development cooperation, as well as the Federal Ministry of the Environment. In all, 5 sets of guidelines have appeared in Vietnamese and English.

Contact  
**michael.zschiesche@ufu.de**

Project duration  
**06/2005 – 04/2009**

Financial support  
**Federal Ministry for Education and Research**

## Further projects

### A Future-Oriented Environment Code

Scientific and practical consulting during the process of passing laws for a German legal code by means of: policy briefs, specialist seminars, specialist lectures, press releases and publications.

Contact **michael.zschiesche@ufu.de** Project duration **11/2006–5/2009**

Financial support **UBA – Federal Environmental Agency; Federal Ministry for the Environment, Conservation and Reactor Safety** Project partner **Ökoinstitut; DUH – Deutsche Umwelthilfe**

### Incorporation of Consumers into the Standardization Process in Vietnam

Preparation of an analysis on the current situation regarding the establishment of industry standards and the standardization process in Vietnam as well as planning, organization and consulting on a study visit of two Vietnamese scientists to Berlin, and running a workshop in Vietnam.

Contact **michael.zschiesche@ufu.de** Project duration **01/08 – 03/09** Principal **Federal Ministry for Education and Research** Project finance **DLR, IB: Ministry for Science and Technology Vietnam, Legal Section (MOST)**

### Visit of Two Vietnamese Scientists

Visit of two scientists from the Environmental Agency in Nam Dinh related to the topics soil conservation, soil conservation law and management of brownfields planned and support arranged.

Contact **michael.zschiesche@ufu.de** Project duration **07/2009** Principal **TASK; UfZ Leipzig**

### Dialogue – Transparency and Participation in Environmental Protection in Moldavia

The goal of the project is implementation of the Aarhus Convention into Moldavian law.

Contact [franziska.sperfeld@ufu.de](mailto:franziska.sperfeld@ufu.de) Project duration **05/2009–07/2011**

Financial support **UBA – Federal Environmental Agency; BMU – Federal Ministry for the Environment, Conservation and Reactor Safety** Project partners (in Moldavia) **ECO-Tiras, Dr. Ilya Trombitsky**

### Strengthening Public Participation in Zupanja Karlovac, Croatia

Conduct of a further education course for local actors in environmental protection on the topics: Access to environmental information and public participation, carrying out of three local projects on these topics, with the goal of making sustainable improvements to the basis of discussions.

Contact [franziska.sperfeld@ufu.de](mailto:franziska.sperfeld@ufu.de) Project duration **10/2009–02/2010**

Financial support **UBA – Federal Environmental Agency; BMU – Federal Ministry for the Environment, Conservation and Reactor Safety (in Croatia): Zelena Akcija, Friends of the Earth Croatia**

### Study: Legal Basis and Practice of Public Participation in Environment-related Approval Hearings in Germany

Ascertaining the level of citizen participation in environment-related approval hearings in the period 2005–2009, as well as suggestions for measures to improve citizen participation.

Contact [michael.zschiesche@ufu.de](mailto:michael.zschiesche@ufu.de) Project duration **06/2009–07/2009**

Principal **Federal Parliamentary Party, Die Linke, German parliament**

### Scientific Study Trips to Vietnam

Planning and organization of two study trips to Vietnam, including workshops to the topics soil protection management, brownfield management and soil protection law. Visit to Hanoi and Bac Lieu in March 2009 and to Hanoi in April 2010. Support for an vietnamese-german agreement for deeper collaboration in the field of environmental protection.

Contact [michael.zschiesche@ufu.de](mailto:michael.zschiesche@ufu.de) Project duration **2009/2010**

Principal **BMU – Federal Ministry for the Environment, Conservation and Reactor Safety**

### More Environmental Justice through the Aarhus Convention

Evaluation of the implementation of the Aarhus Convention in Germany and organization of a workshop on the practice of the right to participate and file suit.

Contact [franziska.sperfeld@ufu.de](mailto:franziska.sperfeld@ufu.de) Project duration **09/2009–06/2010**

Financial support **Aktion Mensch**

### 2020 – The Future of Environmental Associations – Contents, Leadership Structures, Concepts

One-day workshop for top management of environmental groups on future-oriented topics such as adaptation to societal megatrends and the development of environmental consciousness in Germany.

Contact [michael.zschiesche@ufu.de](mailto:michael.zschiesche@ufu.de) Project duration **11/2009–2/2010**

Financial support **BMU – Federal Ministry for the Environment, Conservation and Reactor Safety**

## The Department of Climate Protection & Environmental Education

How can children and young people understand and experience renewable sources of energy? What can teachers and educators do in order to make the topic understandable to schoolchildren? These and similar questions are the focus of the work of the Climate Protection & Environmental Education department. Here environmental education concepts are developed for all ages from pre-school across all school levels to job training and further education. Part of this involves developing instructional materials with the goal of linking education with practice in climate protection, energy conservation and use of renewable forms of energy, and passing on competencies for sustainable development through education.

We make the results of our work available to anyone who is interested, in the form of a box of materials, instructional materials, instructional films, studies and overviews of educational materials that are available elsewhere. For more than 15 years we have been advising schools in Berlin and other states on energy saving by raising awareness about user behavior and small investments. We combine this as often as we can with the introduction and conduct of financial or pedagogical incentive systems such as fifty/fifty. Part of the program places the funds saved on energy, waste and water costs through changed user behavior at the schools' disposal.

Children can be made aware of the need for conscious and sustainable dealing with energy and natural resources already at kindergarten age. Here our projects start at the beginners' level. We develop materials, which children's day centers, as educational institutions, take seriously. We carry out further education courses with pedagogical specialists, in which they acquire a qualification in education for sustainable development involving both content and pedagogical skills. And we implement projects in the institutions together with them: What happens when I switch the light on? Why does the heating get warm? How can I generate energy through my own strength? Through the use of easy to understand, playful examples even young children can acquire understanding of the abstract phenomenon of energy and how energy, the environment and their everyday lives are interconnected. They can learn that natural resources are valuable and discover that they themselves can be careful with energy and look after the environment in their immediate surroundings.

## Solar Support

More and more schools are becoming active in the area of climate protection, and would like to prepare their students for the demands of the future. Renewable energy sources play a central role in achieving the ambitious climate protection goals in Germany. Many schools in Germany already have a photovoltaic unit on their roof, ranging from small 1 kWp units to compact power plants with a capacity of up to 80 kWp. To allow these units, their operating principle and what they yield, to be better integrated into lessons, together with its partners UfU has carried out the project "Solar Support." Its purpose is to awaken "sleeping solar units" into active participation in school life. To support teachers and students, a study unit on solar energy was developed for use in schools. This makes it possible to integrate the school solar power generator into lessons without substantial technical knowledge. In this way the participating schools were able to make use of their solar power units to increase acceptance of renewable energy. The technical and pedagogical materials developed were published and distributed.

## Young Reporters for the Environment

Ecological actions and projects will be linked with training in journalism and journalistic activities for children and young people. In Slovakia, participants in projects give reports on a wide range of environmental topics, whereas in Berlin the focus is on energy and climate issues.

In the Berlin schools involved in the project fifty-fifty students are specifically encouraged and trained to write reports on the project at their school, and to publish these in student newspapers and in Berlin local and national media. For this purpose, UfU offers several workshops for students who are active on student newspapers or would like to become active. In doing this, the Berlin students are in constant contact with the Slovakian students, and they work together as young reporters for the environment.

Through the integration of the project into the international program of the Foundation for Environmental Education (FEE), the young reporters for the environment participate in the already existing and ever-growing Young Reporters for the Environment (YRE) network. The YRE pass their contributions onto the network mostly via the Internet, which is conceived of as a press agency for sustainable development of young people and students, while also being able to use the contributions available in the agency's pool of material for their own purposes. Joint transnational reports are also possible through the network.

Contact

**malte.schmidthals@ufu.de**

Project duration

**11/2006–04/2009**

Financial support

**Federal Ministry for the Environment, Conservation and Reactor Safety**

Project partner

**DGS – German Society for Solar Energy, IZT – Institute for Future Studies and Technology Assessment**

Contact

**marlies.bock@ufu.de**

Project duration

**01/2010–12/2011**

Financial support

**Berlin Senate Department for Health, Environment and Consumer Protection; DBU – German National Environment Foundation**

Project partner

**spiralá (Slovakia)**

## Leuchtpol

Children can be made aware of the need for conscious and sustainable dealing with energy and natural resources already at kindergarten age. In various further education activities pedagogical specialists are trained by Leuchtpol staff. The requirements of elementary education policies in institutions involved in children's daycare in the states of Berlin, Sachsen-Anhalt and Brandenburg are met.

What happens when I switch the light on? Why does the heating get warm? How can I generate energy through my own strength? Through the use of easy to understand, playful examples even young children can acquire understanding of the abstract phenomenon of energy and how energy, the environment and their everyday lives are interconnected. They can learn that natural resources are valuable and discover that they themselves can be careful with energy and look after the environment in their immediate surroundings.

With the help of a five-day series of further-education seminars pedagogical specialists are trained to make these phenomena understandable, and learn to introduce education for sustainable development in the elementary school area, using the example of the topic "Energy and environment."

Numerous elements are employed, ranging from discovery learning and researching a topic, through philosophizing, to experimenting. Participants develop their own approaches based on what they have learned, and try these out in practice. In doing this they are supported by the Regionalbüro Ost (Regional Office "East"). The course is free.

Contact

**heike.mueller@ufu.de**

Project duration

**04/2009 – 12/2012**

Financial support

**Leuchtpol gGmbH  
(National project of the  
working group Nature  
and Environmental  
Education with the  
support of E.ON AG)**

## Further projects

### Solar Support: Making Renewable Energy Visible!

Coordination of the technical upgrading of 400 school solar collector plants. Development, publication and supervision of the "Climate Protection School Atlas."

Contact **ulrike.koch@ufu.de** Project duration **11/2008 – 10/2010** Financial support **Federal Ministry for the Environment, Conservation and Reactor Safety** Project partner **DGS – German Society for Solar Energy, whydata Berlin**

### The World of Renewable Energy: Powerado plus

Development of eLearning materials on renewable energy for elementary school.

Contact **iken.draeger@ufu.de** Project duration **03/2009 – 01/2012** Financial support **Federal Ministry for the Environment, Conservation and Reactor Safety** Project partner **DGS – German Society for Solar Energy, IZT – Institute for Future Studies and Technology Assessment, PLL University of Leipzig, iserundschmidt, University of Magdeburg, ecologic**

### e-fit: Professional Qualification in the Future Field of Renewable Energy

Development of an online course for grade 10 school leavers for the occupational field of renewable energy.

Contact **iken.draeger@ufu.de** Project duration **06/2009 – 05/2012** Financial support **Federal Ministry for Education and Research** Project partner **DGS – German Society for Solar Energy, IZT – Institute for Future Studies and Technology Assessment, PLL University of Leipzig**

### Study Unit “Climate Protection and Living Conditions”

Preparation of elementary school instructional materials on the topics “Climate change? What’s that got to do with me?” “Energy consumption in our apartment,” “Saving energy.”

Contact [iken.draeger@ufu.de](mailto:iken.draeger@ufu.de) Project duration **02/2010–11/2010** Financial support **DMB – German Tenants Association**

### Cooperation in the Production of a Brochure with Learning Modules on Climate Protection

Preparation of learning materials for upper secondary level on “Money and climate change,” “The Internet and climate change” and “Changing utility providers.”

Contact [bianca.schemel@ufu.de](mailto:bianca.schemel@ufu.de) Project duration **seit 012/2009**

Principal **WWF – World Wildlife Fund for Nature**

### Smartcity. Intelligent in die Zukunft (into the future intelligently)

Development of a didactic concept for a mobile energy house for 5 to 10 year olds.

Contact [iken.draeger@ufu.de](mailto:iken.draeger@ufu.de) Project duration **06/2009–08/2009**

Principal **Federal Agency for Energy and Water Economy (BDEW)**

### Development of Instruction Materials “Combined Heating/Power” (CHP)

Preparation of teaching aids, a collection of transparencies, a list of speakers and PowerPoint presentations for physics course instruction.

Contact [florian.kliche@ufu.de](mailto:florian.kliche@ufu.de) Project duration **01/2009–12/2009**

Principal **Initiative “CHP Model City Berlin – Using Energy Efficiently”**

### Environmental Education in Vietnam

Further education of teachers on energy and climate education in order to integrate climate protection topics within Vietnamese environmental education.

Contact [malte.schmidthals@ufu.de](mailto:malte.schmidthals@ufu.de) Project duration **since 2005, once to three times annually**

Financial support **CEACE with funds from the Rosa Luxemburg Foundation**

### Sauce-Schools@university

Five academic credit weeks in two years on the topic “Climate protection,” with lectures and participation sessions for schoolchildren, and further education for teachers.

Contact [heike.mueller@ufu.de](mailto:heike.mueller@ufu.de) Project duration **01/2009–05/2011** Principal **FU Berlin as**

**part of an EU project**

### MuseumScouts

Schoolchildren learn and investigate on the computer in combination with museum displays on the topic of “Energy.”

Contact [florian.kliche@ufu.de](mailto:florian.kliche@ufu.de) Project duration **07/2006–01/2010** Principal **EU Comenius Project**

### Energymanagement at schools

Encouraging people to adopt energy-saving measures through financial incentive systems, counseling, teacher further education, active seminars and discussion lists via e-mail in schools.

Contact [marlies.block@ufu.de](mailto:marlies.block@ufu.de) Project duration **01/2009–12/2009** Financial support **Berlin**

**Senate Department for Health, Environment and Consumer Protection**

### Saving energy at Hanover's schools

Pedagogical and low-investment measures on "Saving energy" in 34 Hanover schools.

Contact [florian.kliche@ufu.de](mailto:florian.kliche@ufu.de) Project duration **09/2008–06/2011** Financial support **Hannover State Capital and Department of Building Management in connection with the climate protection initiative of the Federal Ministry for the Environment (BMU)**

### The "Berlin Climate Schools" Competition

Activities of a competition office such as: consulting with schools, collecting and evaluating submissions, and making arrangements for jury meetings.

Contact [almuth.tharan@ufu.de](mailto:almuth.tharan@ufu.de) Project duration **07/2008–06/2011** Principals **Senate Departments of Education, Science and Research and Health, Environment, and Consumer** Project partner **iserundschmidt**

### EURONET 50/50

Disseminating energy saving projects in schools in various EU countries, as well as establishing a network of 50/50 schools.

Contact [almuth.tharan@ufu.de](mailto:almuth.tharan@ufu.de) Project duration **06/2009–05/2012** Principal **EU Project within the Intelligent Energy Europe program, with partners from nine EU states**

### Sonnenkinder (sun children)

Running four project days on the topic of solar energy at each of 75 Berlin children's day care centers and specialized schools for children aged between four and six years.

Contact [meike.rathgeber@ufu.de](mailto:meike.rathgeber@ufu.de) Project duration **07/2007–06/2010** Principal **Berlin Senate Department for Health, Environment and Consumer Protection**

### Saving Energy in Schools in the Ludwigslust district

Introduction of a motivation and training measure to achieve behaviour-related energy savings in schools. Development of a sustainable concept that can be carried out by the schools themselves.

Contact [almuth.tharan@ufu.de](mailto:almuth.tharan@ufu.de) Project duration **01/2010–02/2011** Principal **Within the framework of an EFRE/INTERREG IVB project "EcoRegion"**

### GASAG-Energy-Cup

Preparation of instructional materials, advising schools, organization of the climate protection competition and the awards ceremony. Projects on the topic of efficient use of natural gas and renewable energy. Approximately 20 to 25 participating schools each year.

Contact [marlies.bock@ufu.de](mailto:marlies.bock@ufu.de) Project duration **since 2005** Principal **GASAG**

### School package CO<sub>2</sub>-free with an energy savings account for schools

Preparation of cross-disciplinary instructional materials on setting up an online energy savings account for schools.

Contact [iken.draeger@ufu.de](mailto:iken.draeger@ufu.de) Project duration **01/2009–12/2009** Financial support **Federal Ministry for the Environment, Conservation and Reactor Safety**

### atmosfair is supporting fifty/fifty schools

Atmosfair, an institution which uses donations from airline passengers to compensate for their CO<sub>2</sub> emissions through international climate protection projects, supports energy saving projects in schools throughout Germany in order to popularize the *fifty/fifty* model.

Contact [malte.schmidthals@ufu.de](mailto:malte.schmidthals@ufu.de) Project duration **since 2007** Principal **atmosfair**

### Energy Agents

A detective game for the fifth grade which involves the class developing something which will motivate everybody in the school to save energy.

Contact [heike.mueller@ufu.de](mailto:heike.mueller@ufu.de) Project duration **07/2007–06/2009** Principal **NUON**

### Saving Energy in Schools in Berlin Districts

Advising schools on energy saving by means of an energy walk-around survey, measurements, and involvement of all users.

Contact [almuth.tharan@ufu.de](mailto:almuth.tharan@ufu.de); [florian.kliche@ufu.de](mailto:florian.kliche@ufu.de); [malte.schmidthals@ufu.de](mailto:malte.schmidthals@ufu.de)

Project duration since **2000** Principal **The Berlin districts of Pankow, Steglitz-Zehlendorf, Reinickendorf and Treptow-Köpenick, and contracting companies**

### Climate Protection Concept for the “Hohe Schrecke” Region

Development of a climate protection concept for the conservation region “Hohe Schrecke” with a focus on heating and renewable energy.

Contact [malte.schmidthals@ufu.de](mailto:malte.schmidthals@ufu.de) Project duration **12/2010–11/2011**

Principal **David Nature Foundation**

### “Heating without Coal”

Studies on the provision of heating in three Berlin districts as an alternative to the coal-fired power station at the Klingenberg site.

Contact [malte.schmidthals@ufu.de](mailto:malte.schmidthals@ufu.de) Project duration **12/2008–04/2009** Principal **klima-allianz and BUND Berlin** Project partner **FHTW, Prof. Twele, Rechtsanwälte Gaßner, Groth, Siederer & Coll.**

### Solar Training Ship

Development of an educational concept for a solar training ship biosphere conservation area in Schorfheide-Chorin.

Contact [almuth.tharan@ufu.de](mailto:almuth.tharan@ufu.de) Project duration **07/2008–04/2009** Principal **State Environment Office, Brandenburg**

### Workshop on Saving Energy in Schools

Energy saving in schools at the beginning of the heating season.

Contact [marlies.bock@ufu.de](mailto:marlies.bock@ufu.de) Project duration **annual since 1995** Financial support **Program ImpulsEnergie of SenGUV**

## Book

**Jänsch, M., Sperfeld, F., Zschiesche, M.:** Ihr Recht auf Umweltinformationen. Citizens' guidelines, Berlin, 2009.

## Brochures

**Draeger, I., Kliche, F.:** Schulpaket Solarsupport. Materialien für Schulen und Bildungseinrichtungen zum Thema Photovoltaik Klassen 4–6, published by UfU e.V., Berlin, 2009.

**Draeger, I., Kliche, F.:** Schulpaket Solarsupport. Materialien für Schulen und Bildungseinrichtungen zum Thema Photovoltaik Klassen 7–10, published by UfU e.V., Berlin, 2009.

**Draeger, I., Schemel, B., Schmidthals, M.:** Klimaschutz und Wohnen. Schulpaket für die 5. und 6. Klasse. In the framework of the Project "Tenants for a healthy climate," published by German Tenants' Association e.V., Berlin, 2010. (and DVD film "CO<sub>2</sub>(E)MISSION").

**Draeger, I.:** Schulpaket CO<sub>2</sub>-frei zum Energiesparkonto für Schulen. Materialien für Schulen und Bildungseinrichtungen Klassen 5–10, published by UfU e.V., Berlin, 2010.

**Draeger, I., Kliche, F.:** Kraft-Wärme-Kopplung. Ressourcen doppelt nutzen, published by the Initiative "KWK Model City Berlin – Using energy efficiently," Berlin, 2009.

**Kliche, F. u. a.:** MuseumScouts – ein Handbuch für Lehrkräfte, published by The Partners, MuseumScouts, Comenius 2.1. The MuseumScouts Project 2009, Berlin, 2010.

**Kliche, F.:** Schulpaket fifty/fifty Energiesparen an Schulen. Materialien für die Mittelstufe Klassen 5–10, published by UfU e.V., Berlin, 2009.

**Oswald, H.:** Unterrichtseinheit Klimaschutz mit Erdgas und Bio-Erdgas, Berlin, 2010.

## Studies

**Draeger, I., Zimmer, R.:** Wie wollen Kinder das Klima schützen? Project report commissioned by WWF Germany, Berlin, 2010.

**Schmidthals, M.:** Versorgungssicherheit und Bioenergiepotential, Teilstudie im Rahmen der Studie der FHTW Berlin: Dezentrales Wärmeversorgungskonzept in den Berliner Stadtbezirken Lichtenberg, Friedrichshain-Kreuzberg und Marzahn-Hellersdorf für das Jahr 2018, commissioned by Climate Alliance and BUND Berlin, Berlin, 2009.

**Sperfeld, F., Cerny, L., Ziesche, M.:** Praxis des Umweltinformationsrechts in Deutschland Eine Evaluation aus Bürgersicht anhand der Methode der retrospektiven Gesetzesfolgenabschätzung, published by UfU e.V., Berlin, 2009.

**Zschiesche, M., Keupp, S.:** UfU-Paper: Die Aarhus-Konvention – Bürgerbeteiligung in neuer Qualität?, published by UfU e.V., Berlin, 2010

## Articles in books and magazines

**Draeger, I.:** Erneuerbare Energien in die Studienseminare: Ein Beispiel aus der Praxis, in: Energiebildung für die Schule, Tagungsband zum Symposium, hrsg. von Komorek, M., Niesel, V., Rebmann, K., 2010.

**Jänsch, M.:** Das Instrument Umweltinformationsgesetz – Beispiele aus der Kampagnenarbeit, in: UfU-Themen und Informationen Nr. 64/65, 2008/09.

**Jänsch, M.:** Elektro-Mobilität?, in: UfU – Themen und Informationen Nr. 66, 2009.

**Kliche, F.:** Fifty/Fifty. Ein Programm Geht um die Welt, in: UfU – Themen und Informationen Nr. s68, 2010.

**Müller, H.:** Der Wirbelsturm im Gewächshaus, naturwissenschaftliche Grundbildung im Kindergarten als Aspekt von BNE, UfU – Themen und Informationen Nr. 67, 2010.

**Rathgeber, M.:** Energie und Klimaschutz im Kindergarten, in: Leuchtpol-Projektordner, 10/2010.

**Rathgeber, M.:** Interview zu frühkindlicher Bildung zu erneuerbaren Energien, in: Photon, 10/2009.

**Rathgeber, M.:** Interview zum Regionalbüro Ost, in: Leuchtpol-Projektzeitung, 07/2010.

- Schmidthals, M., Göll, E.:** Trends der Umweltbildung – Bericht von der Weltkonferenz für Umweltbildung, in: Berlin 21 – Infomagazin 09/2, 2009.
- Schmidthals, M.:** New Tendencies in Environmental Education in North America, in: Global Forum for Environmental Education – Volume 19 No 2, 02/2010.
- Schmidthals, M.:** Schule und Community, in: UfU – Themen und Informationen Nr. 68, 2010.
- Schmidthals, M.; Tharan, A.:** Technik versus Lifestyleänderung? Auf dem Weg in die 1-t-Co-Gesellschaft, in: UfU-Themen und Informationen Nr. 67, 2010.
- Schneider, K.:** First steps for a management of invasive plants on a regional scale in Saxony-Anhalt, Germany, in: Kollmann, J., v. Mülken, T. et al. (Hrsg.), Biological Invasions in a Changing World – from Science to Management, S. 260, 2010.
- Welke, J.:** „Bewegt Wasser Massen?“, Interview in: Berliner Gazette ([www.berlinergazette.de](http://www.berlinergazette.de)), 15.7.2010.
- Zimmer, R. (2009):** Dialog- und Partizipationsverfahren in der Konfliktbearbeitung. Analyse des Konflikts und Einordnung der Verfahren, in: Göpfert, J.; Moos, T., (Hrsg.): Konfliktfelder beackern. Dialog- und Partizipationsverfahren bei fundamentalen Technikkonflikten am Beispiel der Grünen Gentechnik, S. 47–60.
- Zimmer, R. Simons, J., Vierboom, C., Härten, I., Hertel, R.:** The slings and arrows of communication on nanotechnology, in: J Nanopart Res 11: 1555–1571, 2009.
- Zimmer, R.:** Der saubere Treibstoff – Auf dem Weg in die Wasserstoffökonomie, in: UfU – Themen und Informationen Nr. 66, 2009.
- Zimmer, R.:** Die Rahmung der Zwergenwelt. Argumentationsmuster und Versprachlichungsformen im Nanotechnologiediskurs, in: Felder, E., Müller, M. (Hrsg.): Wissen durch Sprache, (Sprache und Wissen Band 3), S. 279–308, 2009.
- Zimmer, R.:** Nanotechnologie und öffentliche Meinung – Die Wahrnehmung einer innovativen Technologie, in: Scherzberg, A., Wendorff, J.H. (Hrsg.): Nanotechnologie – Grundlagen, Anwendungen, Risiken, Regulierung, S. 93-110, 2009.
- Zimmer, R.:** Umweltkommunikation – Neuer Wein aus alten Schläuchen?, in: UfU – Themen und Informationen Nr. 64/65, 2008/09.
- Zimmer, R., Draeger, I.:** Jugend und Klima. Was erwarten Kinder und Jugendliche von der Zukunft?, in: Jahrbuch Ökologie – Die Klima-Manipulateure, S. 193–200, 2010.
- Zimmer, R., Zschiesche, M.; Hölzinger, N.:** The role of trust and familiarity in risk communication, in: Tagungsband der International Conference on Hydrogen Safety, 2009.
- Zschiesche, M., Duong Thanh An:** A survey of the Vietnamese environmental legislation on water, in: Elni REVIEW Nr. 1/2009, S. 43–51.
- Zschiesche, M.:** Die Aarhus-Konvention - Keimzelle für die Beteiligung in allen internationalen Verträgen und internationalen Organisationen, in: [www.wegweiser-buergergesellschaft.de](http://www.wegweiser-buergergesellschaft.de), Online-Portal der Stiftung Mitarbeit, 8/2009, S. 1–5.
- Zschiesche, M.:** Die ostdeutschen Umweltschützer oder der schwere Weg zu nachhaltigen Organisationen, in: Alligator – Zeitschrift der Grünen Liga, Heft 273, 2010, S. 15–19.
- Zschiesche, M.:** Die Partizipative Kommune – eine wichtige Strategie für kommunalen Klimaschutz, in: Tagungsdokumentation: Zukunft des Kommunalen Energiemanagements, Fachhochschule Eberswalde, 2009, S. 25–31.
- Zschiesche, M.:** Neues Umweltinformationsrecht – und wie wir damit umgehen, in: Jahrbuch Ökologie, Berlin, 2010.
- Zschiesche, M.:** Transparenz und Beteiligung in der Gesetzgebung in Deutschland und der Europäischen Union, in: UfU – Themen und Informationen Nr. 64/65, 2008/09.
- Zschiesche, M.:** Umweltschutz in Ostdeutschland. Versuch über ein schnell verschwundenes Thema, in: UfU-Themen und Informationen Nr. 67, 2010.
- Zschiesche, M.:** Die ostdeutschen Umweltschützer oder der schwere Weg zu nachhaltigen Organisationen, in: UfU – Themen und Informationen Nr. 67, Berlin, 2010.

## Climate Protection & Environmental Education

### Malte Schmidthals

**Heating technology and energy-saving user behavior** Presentation/seminar for participants invited by LA 21, Biesenthal February 1 and 14

**Security of natural gas and biogas supplies** Presentation of the study "Decentralized supply concept in the Berlin suburbs Lichtenberg, Friedrichshain-Kreuzberg, and Marzahn-Hellersdorf for the year 2018" at the Berlin State Parliament March 30, 2009

**Energy saving in schools** NGO Forum des 5th World Environment Education Congress, Montreal May 12, 2009

**Energy Education in Schools with the Focus on Climate Change** Seminar of the EPA, Region III, Philadelphia June 1, 2009

**Environmental Education on Climate Change, Renewable Energies and Energy Conservation** Environmental education conference by the State of New York May 19, 2009

**The fifty/fifty-Project in Berlin and Further Development to Political Involvement, Environmental Justice and Community Action** "Inspiring Climate Education" Conference in Copenhagen, Denmark October 12, 2009

**Climate Protection – Technology vs. Awareness** Symposium marking the 20th anniversary of the foundation of UfU, Berlin March 19, 2010

**Participatory development of the Berlin Local Agenda 21 – Fields of Action, Goals and Indicators** Vietnamese-German Environmental Conference "Hanoi's environment and the people of Hanoi" in Hanoi, Vietnam June 24, 2010

**Municipal utilities as a means for achieving sustainable energy policy based on left-wing party policy** Energy conference of the political party Die Linke "The future is renewable – eliminate atomic energy" in Hamburg September 4, 2010

### Meike Rathgeber

**Introduction of new teaching methods on renewable energy** at ten schools in Sichuan, China February 2009

**Lecture and stage learning about renewable energy** for forty teachers in Chinese schools in Peking, China March 15, 2009

### Almuth Tharan

**Examples of citizen participation in Berlin** 4th European Green Local Councilor Congress of "The Greens/European Free Alliance," Stuttgart April 18, 2009

**Competition in Berlin climate schools – Climate protection differently for once** Berlin Energy Days (Berliner Energietage) May 5, 2009

**Booth at the BMU institutional open house** August 21 to 22, 2009

### Iken Draeger

**Presentation of the research project "Powerado plus"** BMU network meeting "Acceptance for renewable energy" June 23, 2009

**powerado – The Renewable Energy Experience. Research results and activities** 3rd European Fair on Education for Sustainable Development in Hamburg October 29, 2009

**Renewable energy in study seminars** Symposium on Energy Education in Oldenburg March 15, 2010

**Renewable energy in study seminars – a practical report** BMU higher education meeting on renewable energy June 2, 2010

### Florian Kliche

**fifty-fifty in Berlin** City partnership Berlin-Mexico City in the Rotes Rathaus, Berlin June 09, 2010

## Environmental Law & Participation

### Michael Zschiesche

**No fear of the public – Environmental protection by means of civil law and association law – status quo and the need for action** Congress on Democracy “Democracy and Ecology” of the Heinrich Böll Foundation in Bremen February 6, 2009

**Aarhus Convention – Implementation in Germany** Study visit by American teachers, Workshop at the Gothe-Institute in Berlin, March 16, 2009

**Development of nanotechnology and incorporation of the consumer perspective** 3rd Symposium on Nanotechnology and Toxicology in Environment and Health at the Environment Research Center, Leipzig March 18, 2009

**The practice of the Environment Information Act in Germany** International symposium of the data protection commissioner of the State of Brandenburg “Access to environmental information – Freedom of information for environmental protection?” in Potsdam June 18, 2009

**Theory and practice of public participation in approval hearings in the Federal Republic of Germany** Lecture presentation to the Federal Members of the political party Die Linke, Berlin June 30, 2010

**Environmental protection, industrial parks and public participation as exemplified in the Federal Republic of Germany** International workshop held by the Center for Education and Communication on the Environment (CEACE) in Long An, Vietnam October 15, 2009

**The participatory municipality – an important strategy for municipal environmental protection** Specialist meeting of the Eberswalde School of Sustainable Development and the Böll Foundation, State of Brandenburg, in Eberswalde November 20, 2009

**Public participation in environmental issues – an opportunity to strengthen local democracy and ecology** Workshop in Karlovac, Croatia December 4, 2010

**Success factors for participation in local climate protection** UfU winter school in Beroun near Prague March 30, 2010

**Perspectives for public participation in environment-related approval hearings in Germany** Kolleg (institute) of Braunschweig University May 18, 2010

### Franziska Sperfeld

**Access to environmental information: Legal basis, practices and legal recourse** Workshop in Karlovac, Croatia December 4, 2009

**News from the Aarhus Convention: Objection lodged with the Compliance Committee**

**Studies of the European ECO Forum and German information Web sites**, workshop “Practice of the law on participation and the right of action in environmental protection – 2010” in Berlin, February 27, 2010

**Climate Protection in Formal Participation Procedures**, Winter school on Public Participation & Climate Protection, Beroun, Czech Republic, March 30, 2010

## Resource Protection & Landscape Ecology

### Dr. Rene Zimmer

- Nanomaterials in food – Risk perception and assessment** 32nd information conference on “Meat Technology“ held by the Beuth University of Applied Sciences, Berlin
- Science in society. Commentary on the central findings of NanoCare** Closing session of the NanoCare project, Berlin
- Environmental communication—what is it?** Workshop on “Environmental communication – German experiences” Tuy Hoa, Vietnam
- World Café:** Vietnam’s Energy Supply Workshop on “Environmental communication – German experiences” Tuy Hoa, Vietnam
- New methods of environmental communication** Workshop on “Environmental communication – German experiences” Tuy Hoa, Vietnam
- Simulation: Building a wind turbine generator off the coast of Tuy Hoa** Workshop on “Environmental communication – German experiences” Tuy Hoa, Vietnam
- The role of trust and familiarity in risk communication** International Conference on Hydrogen Safety, Ajaccio, France, September 18, 2009
- Modern food production – risk perception among consumers** Specialist meeting 02/2009 of the REFA branch organization Food and Catering, Bremen, October 30, 2009
- HyTrust – on the pathway to a hydrogen society** CEP Steering Committee, Berlin, February 19, 2010
- “Enabling” non-energy technologies;** Example: Nanotechnology Efonet Workshop, San Sebastian, March 11, 2010
- What will propel us tomorrow? On the pathway to sustainable mobility.** HyTrust Workshop, Berlin, March 22, 2010
- What will propel us tomorrow? On the pathway to sustainable mobility.** NOW Advisory Board, Berlin, March 24, 2010
- Acceptance, risk perception and risk communication in connection with nanotechnology in the foods sector,** 2nd conference on “Nanotechnology, micelle technology, and micro-emulsions”, Berlin, April 23, 2010
- Acceptance of hydrogen technologies and the role of trust** World Hydrogen Energy Conference 2010, Essen, May 18, 2010
- First human beings and now cattle – Do nano turnips make you fuller?** Annual meeting of the Feed Monitoring Authorities, Berlin, June 8, 2010
- The third industrial revolution? The potential and risks of nanotechnology.** “Science day” at the BSZ, Radebeul, June 16, 2010
- HyTrust – on the pathway to a hydrogen society** DB Fahrgast, Umwelt & Verkehr 2010, Potsdam, June 24, 2010
- Social acceptance of hydrogen** NOW Conference “Clean Mobility Insights,” Berlin September 15, 2010
- Full steam ahead? Hydrogen technology from the perspective of the citizen** f-cell 2010, Stuttgart, September 28, 2010
- The role of acceptance and trust in introducing hydrogen technology** Seventeenth symposium “Use of regenerative energy sources and hydrogen technology,” Stralsund, November 4, 2010

## Further education activities

Experience energy and environment in a new way: In the framework of the nationwide project "Leuchtpol" UfU offers free, on-the-job further education on energy and environment for educators at the elementary level. The sustainable development education seminar lasts five days and is held about ten times a year in Berlin, Brandenburg and Sachsen-Anhalt. Heike Müller, Heiner Giersch, Anne Mooz, Meike Rathgeber

Through the National Institute for School and Media, Berlin and Brandenburg (LISUM), UfU regularly offers further education for teachers on topics related to energy, climate protection, and environmental themes. In 2009 and 2010 this involved:

**September 16, 2009, Starter kit – Introduction to the use of measuring instruments for saving energy,** Dagmar Hellwig

**September 22, 2009, Saving energy in schools,** Hartmut Oswald

**September 23, 2009, Solar support – Wake up your solar energy plant!** Iken Draeger

**October 14, 2009, Climate protection in schools – Workshops, working groups and lectures,** Dagmar Hellwig

**September 9, 2009, Playing with energy – Gribusse and Kranten argue about energy,** Meike Rathgeber

**April 27, 2010, Saving energy in schools,** Florian Kliche

**June 2, 2010, Workshop: Integrating renewable energy into your own teaching,** Iken Draeger and Meike Rathgeber

**March 24, 2010, Public relations in the school,** Almuth Tharan and Jörg Welke

**September 14, 2010, Saving energy in schools,** Florian Kliche

**November 9, 2010, Workshop: Integrating renewable energy into your own teaching,** Iken Draeger and Korinna Sievert

**September 21, 2010, Public relations in the school,** Almuth Tharan and Jörg Welke

**September 29, 2010, Energy – a topic for trainee teachers!** Meike Rathgeber

## Short-term teaching assignments

**Self-reference and world reference in relation to nature and technology;** seminar at the Catholic University of Applied Sciences, Berlin, in the program "Education and Childrearing." WS 10/11, Meike Rathgeber

## Internships / Master's theses

**Master's thesis on the ecological footprint of UfU.** Marius Zademack

(Supervisors: Malte Schmidthals, Florian Kliche)

**Master's thesis on evaluation of the project fifty/fifty in Berlin.** Daniel Peter

(Supervisors: Malte Schmidthals, Florian Kliche)

**Master's thesis on guiding learning in the Leuchtpol project.** Julia Michael

(Supervisors: Heike Müller, Meike Rathgeber)

**Master's thesis on the practical application of the Environment Information Act.** Lisa Cerny

(Supervisor: Franziska Sperfeld)

**Master's thesis on avenue of participation and filing suit for environmental associations.**

Stefan Keupp (Supervisor: Michael Zschiesche)

**Internship on out-of-court settlements involving legal suits by associations, organization**

**of a presentation.** Franziska Wohltmann (Supervisor: Franziska Sperfeld)

**Internship on management of volunteers in environmental associations, organization**

**of a presentation.** Franziska Pfeiffer (Supervisor: Franziska Sperfeld)

**Internship on the topic "Youth and mobility,"** Franziska Pfeiffer (Supervisors: René Zimmer,

Jörg Welke)

**Internship on the topic "Climate protection, motor vehicles and advertising,"** Clément Guyot

(Supervisors: René Zimmer, Jörg Welke)

**Internship on the topic "Renewable energy in conflict,"** Wiebke Wesselhöfft

(Supervisor: René Zimmer)

## Scientific Advisory Board

**Prof. Dr. Gerhard de Haan**, education professor, Head of the Institute for Educational Future Research (institutfutur) at the Freie Universität Berlin

**Rosemarie Benndorf**, meteorologist, Federal Environment Agency, member of the working group "Protecting the earth's atmosphere," founding member of UfU

**Prof. Dr. John Bonine**, lawyer, professor of environmental law, co-founder of the worldwide environmental law organization ELAW, University of Oregon, Eugene, Oregon

**Prof. Dr. Edmundt Brandt**, lawyer, political scientist and administration scholar, professor of public law, specialized in energy and environmental law, head of constitutional law and administrative law at the TU Braunschweig

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**Prof. Dr. Konrad Ott**, philosopher, holder of the chair in environmental ethics at the Ernst Moritz Arndt University, Greifswald

**PD Dr. habil. Reinhard Piechocki**, microbiologist, International Academy for Nature Conservation, Vilm (INA), founding deputy chairperson of UfU.

**Prof. Dr. Holger Rogall**, economist, political scientist, graduate in commerce education, professor of environmental economics at the Berlin School of Economics and Law (FHW), chairman of GfN – the Society for Sustainability, New Environmental Economy and Sustainability Environmental Law, founding member of UfU

**Prof. Dr. Alexander Schmidt**, lawyer, expert on environmental and planning law, Anhalt University of Applied Sciences, Bernburg

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**Prof. Dr. Dr. Ernst Udo Simonis**, economist, political and social scientist, member of the German Advisory Council on Global Change (WBGU), member of the Committee for Development Policy (CDP) of the United Nations, editor of the Jahrbuch für Ökologie (ecology yearbook series).

**Christof Tannert**, biologist, research group leader in bioethics at the Max Delbrück Center for Molecular Medicine, Berlin, founding chairperson of UfU.

## Executive Board

**Michael Zschiesche**, lawyer, economist, chair and spokesperson

**Malte Schmidthals**, environmental technician, deputy chair

**Klaus Mindrup**, biologist, deputy chair

**Almuth Tharan**, language specialist

**Nadine Hölzinger**, environmental technician (resigned 2010)

**Adrian Johst**, biologist

**Dr. Mathias Boysen**, biologist

**Christian Vömel**, office administrator and

trainer for business occupations (co-opted since 2010)

## Honorary Offices

**Malte Schmidthals** Member of the Board of the National Association "School, Energy, Education (BU SEB)"

**Heike Müller** Advising the ANU, Brandenburg

**Meike Rathgeber** Working group "Establishing education for sustainable development in elementary schools"

**Michael Zschiesche** Environmental Law Alliance Worldwide (ELAW); David Nature Foundation, Erfurt; (Vice-President), German Environment Foundation (Board)

**Franziska Sperfeld** Environmental Law Alliance Worldwide (ELAW)



I am working at UfU because I have found my work-life balance here.

**Jörg Welke**

Giving members of the public a voice in public discussions and with decision makers through our research – that is what makes the work at UfU meaningful to me.

**Nicole Lüdi**



You encounter something new again and again through the work at UfU. It is diverse and full of variety. I like that a lot.

**Marlies Bock**

I like the variety in my work and in my colleagues.

**Ulrike Koch**



I am working at UfU because you can make a difference here.

**Dr. René Zimmer**

I am working at UfU because environmental science without commitment is unthinkable.

**Almuth Tharan**

I am working at UfU because it has to capital letters.

**Christian Vömel**



I am working at UfU because environmental protection affects everybody and I can make a contribution to it here.

**Verena Gaida**

Nature and the environment need to have rights – and people who become active as their representatives need to be familiar with these rights – I have the feeling that at UfU I am putting my efforts into the right cause!

**Franziska Sperfeld**

I am working at UfU because it is enriching and exciting to work with educators and children.

**Heiner Giersch**



I am working at UfU because I don't have to decide whether I want to work scientific or for environment protection: Here I can do both.

**Annabell Hormann**

I am working at UfU because UfU stands equally for rigorous scientific skill as well as an equal portion of non-conforming issues relevant to democracy and the environment.

**Michael Zschiesche**





I am working at UfU because my interests and my work coincide very well here.  
**Martin Jänsch**



I am working at UfU because I can constantly develop myself here.  
**Marta Kaiser**



I am working at UfU because environment protection and education belong together.  
**Korinna Sievert**



I would like to make a personal contribution to the development of environment-oriented thinking and to actively influencing the conservation of natural resources.  
**Karin Hix**

The driving force of the environmental movement also needs scientific support. I can say everything, but not write everything.  
**Malte Schmidthals**



My work at UfU combines my interests in environmental protection, interrelated technical issues and working with and for people.  
**Meike Rathgeber**

I am working at UfU because UfU is a good place to develop creative projects.  
**Katrin Schneider**

I am working at UfU because it is exactly what I want to do, and it is exactly there that, together with my colleagues, I can do something to bring about cultural and ecological change.  
**Iken Draeger**



I am working at UfU because UfU is contributing to making the world a better place.  
**Florian Kliche**

I am working at UfU because I can make a contribution to climate protection with little people and higher-ups.  
**Heike Müller**

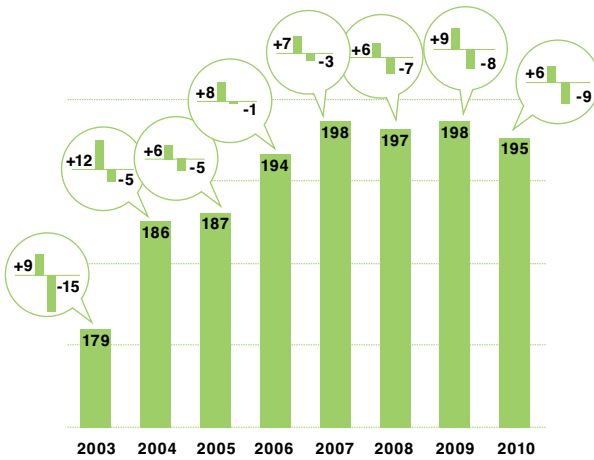


I am working at UfU because I can realise interesting projects like "eLearning for renewable energies."  
**Gerti Scharp**



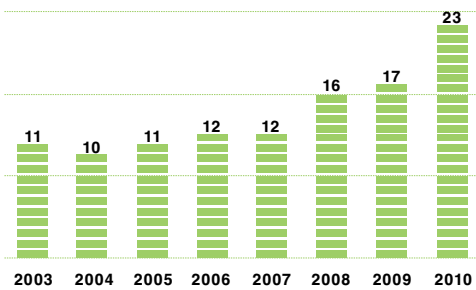
## Numbers and facts

### membership numbers

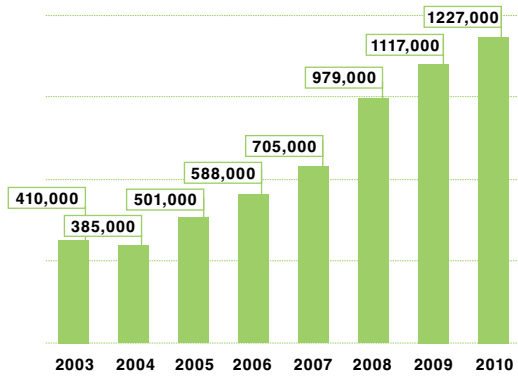


UfU company outing to the "Klimahaus" in Bremerhaven 2010.

### Staff development



### Budget development in euros





20th UfU anniversary



UfU-Employees-Meeting 2010



20th UfU anniversary – symposium at the Berlin Brandenburgische academy of Sciences



Summerschool 2010 in Prag



20th UfU anniversary – Reinhard Piechocki, founder

## Imprint

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