

# Huber-Technology-Foundation

## Huber Technology Prize 2012: **FUTURE WATER**

3d International Huber Technology Prize to be awarded by the Huber-Technology-Foundation



# Call

## **ENERGY FROM WASTEWATER**

**Achievements and innovative concepts**

The 2010 prize winners: Iain Clark, Dr. Paritam Kumar Dutta and Dr. Kilian Langenbach (left to right) at the award ceremony in Munich

## WANTED: GOOD IDEAS!

Our resource water is scarce and not substitutable. Using water sparingly and utilising the valuable constituents contained within wastewater after human consumption in households and industry are the need of the moment in times of a growing scarcity of resources. Equally important for human life and the development of efficient economies is security of energy supply. In view of the looming problems caused by population growth, urbanisation and globalisation of the Western lifestyle, many technical engineering efforts focus on increasing energy efficiency and using more renewable energy sources. Even wastewater, still frequently discussed as a problem, can be exploited as an energy source if innovative concepts and technologies are applied. We are therefore faced with new challenges also in the field of anaerobic wastewater pre-treatment and heat recovery.

WHAT WE ARE LOOKING FOR ARE ...

Preferably ideas, proposals or concepts that deal with the subject ENERGY FROM WASTEWATER in a holistic way and take into consideration the interaction between technology, environment and society. Examples of topics that could be investigated:

- **Production or recovery of energy at the source of wastewater generation**
- **Energy from wastewater on centralized sewage treatment plants**

Proposals submitted should reveal their feasibility in practice and, as far as possible, not lose sight of the aim of compulsory wastewater treatment. The jury will focus on practicable solutions that have the potential of economic efficiency and are adapted to the specific country or area. Proposals should consider and describe specific cultural and social characteristics, if a solution has to take them into account. The jury does not expect highly complicated technological innovations. The subjects that should be made the focus of consideration are particularly the directly connected subjects 'energy' and 'wastewater'. Proposals should further enhance the sustainable handling of the resource wastewater and help to transfer the ideas and research results of young scientists to economy.

There are a lot of ideas worth to be honoured, as previous prize awards have shown!

## WHO CAN PARTICIPATE?

All students and doctorands of both national and international universities or colleges of higher education who wish to contribute with an idea to one of these groups of themes or have already contributed within the scope of their diploma, bachelor or master thesis or dissertation are called upon to participate. Both individual and team proposals in German or English are welcome.

Students and doctorands who have written their diploma in HUBER SE are not eligible to participate.

## WHAT ARE THE JURY'S EVALUATION CRITERIA?

The jury is composed of experts representing different disciplines and will judge the submitted proposal according to the following criteria:

- What is the degree of innovation of the submitted proposal? How new is the idea? (To what extent does the innovation exceed state of the art?)
- What is the creativity involved in the proposal? Does it show new ways and unconventional solutions?
- What is the functionality and economic efficiency of the proposal and is it a feasible proposal (costs, model example)?
- To what extent does the proposal take into account the holistic aspects of the subject?
- What is the economic benefit generated by the implementation of the proposal?

## PRIZE MONEY

The prize money to be awarded is 10,000 Euro. The jury reserves the right to distribute this sum to several winners (however not more than three). HUBER SE further pays travel subsidies of up to 1,000 Euro. Everyone who submits a proposal and ranks among the top ten receives a certificate of participation. Entrance cards for IFAT 2012 will be given to all top twenty candidates.

## PATRONAGE

The HUBER Technology Prize is under the patronage of the Bavarian Minister for the Environment, Dr. Markus Söder.

## JURY

Univ.-Prof. i.R. Dr.-Ing. Dr.h.c. Peter A. Wilderer

Institute of Advanced Studies on Sustainability

Prof. Dr.-Ing. Peter Cornel

TU Darmstadt, WAR Institute; Division of Wastewater Technology

Dr.-Ing. E.h. Fritz Brickwedde,

Secretary General of Deutsche Bundesstiftung Umwelt (DBU)

Prof. Dr.-Ing. Franz Bischof

University of Applied Sciences Amberg-Weiden, Laboratory Adapted Water Technologies

## FORMAT AND CLOSING DATE

Proposals must be submitted by e-mail as pdf files, they should be generally understandable and may be completed with explanatory pictures or drawings. Submitted papers must not contain more than nine DIN A4 pages (font Arial size 12 pt; line spacing 1.0) and include a brief abstract and short curriculum vitae with a postal address. Closing date is 16 January 2012 (e-mail transmission date). Please submit your proposals to

**huber-technology-prize2012@huber.de**

Prize winners shall furthermore create a DIN A0 poster that outlines the starting situation, idea or concept, methods applied and results.

## DATE OF AWARD CEREMONY

The prize ceremony takes place in Munich on 10 May 2010, 5 p.m., on the occasion of IFAT 2012. Prize winners will be given the opportunity to explain their work in a short presentation of 5 minutes.

## DATA PROTECTION AND PUBLICATION

The Huber Technology Foundation assures that all rights remain with the prize candidates. Any disclosure of details of submitted proposals require the prior consent of the candidate(s).

## FINAL PROVISIONS

By submitting their proposals the candidates declare their agreement to the conditions of these award competition specifications and not to submit their proposal to any other competition by 28.02.12. If a candidate violates the rules of competition, he will be disqualified. The decision of the jury is incontestable. The possibility of recourse to legal action is excluded. With their participation all participants confirm that they are the sole author of the submitted paper or the representative submitter for a team of authors. In the latter case, the written agreement of all team members must be attached. The prize winners commit themselves to personally attending the award ceremony.

The Huber Technology Foundation shall have the right to publish free of charge any submitted papers and documents of the award winners, together with the winner's name, within the scope of documentations, publications or exhibitions, whether national or international.