

SEIZE CHANCES



Huber Technology Prize FUTURE WATER

This call for papers invites all bachelor and master students of both national and international universities or colleges of higher education without a final degree to participate. Both individual and team proposals in German or English are welcome.

The prize money to be awarded is **10,000 Euro.**

Closing date for submissions is 28 February 2014.

submit your proposals to:

huber-technology-prize2014@huber.de



WANTED: GOOD IDEAS!

The word "wastewater" is commonly associated with a negative image. It can sicken people, spread unpleasant odours and contaminate the environment. To avoid such negative effects and support the natural water cycle without damaging the environment, wastewater is treated. Wastewater has been treated under this aspect for many years, partly for decades, but not much specific attention has been paid to the individual substances contained within wastewater and not much has been done to utilize the great potential of wastewater as a resource, apart from reusing the nutrients contained. Climate change and the growing world population are however leading to a paradigm shift. For wastewater as a sink of all civilisation activities includes more than only water and nutrients. Rare earths, metals of limited availability and valuable elements are frequently contained within the wastewater generated in different fields of industry and in municipalities. The mechanical, chemical and thermal energy in wastewater can contribute a substantial share to the use of renewable energy. Moreover, even the "waste" produced on sewage treatment plants is increasingly used as basis material for the production of valuable substances.

WHAT WE ARE LOOKING FOR ARE:

Preferably ideas, proposals or concepts in the form of a draft or the executive summary of a final thesis that deal with the subject **Energy and Resources from wastewater** in its entirety and take into consideration the interaction between technology, environment and society. Topics can be freely selected as far as they are in accordance with the specifications set out in this call for proposals.

The proposals submitted should reveal their economic and technical 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 are adapted to the needs and requirements of the specific country or area. Proposals should consider and describe specific cultural and social characteristics if these are requirements which must be observed by a solution. 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 'resources', 'energy' and '(waste)water'. Proposals should further enhance the sustainable handling of the essential resource water and help to transfer the ideas and research results of students and scientists to economy.

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

WHO CAN PARTICIPATE?

This call for papers is intended to address all bachelor and master students (category I) and Ph.D. students (category II) of both national and international universities without a final degree who wish to contribute with a solution to one of these groups of themes or have already contributed within the scope of their final thesis or

doctoral thesis. Both individual and team proposals in German or English are welcome.

All persons who have written their thesis 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 that could be 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 and according to their category. Huber Technology STIFTUNG further pays travel subsidies of up to 1,000 Euro. Everyone who submits a proposal and ranks among the top five of a category will receive a certificate of participation and an entrance ticket for IFAT 2014 to attend the award ceremony.

PATRONAGE

The Huber Technology Prize is under the patronage of the Bavarian Ministry for the Environment.

FORMAT AND CLOSING DATE

Proposals must be submitted by e-mail as pdf file. They should be generally understandable and may be completed with explanatory pictures or drawings. Submitted papers must not contain more than seven 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 28 February 2014 (e-mail transmission date). Please submit your proposals to

huber-technology-prize2014@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 6 May 2014, 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 STIFTUNG assures that all rights remain with the prize candidates. Any disclosure of details of submitted proposals shall 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 01/05/2014. If a candidate violates the rules of competition, he or she 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 STIFTUNG 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.

