



## Welcome to the third newsletter of JELARE

In this edition you can read about past and forthcoming activities of the JELARE project, such as the international networking event held in La Paz (Bolivia) and the progress in developing strategic plans for improved representation of renewable energy at partner universities. Moreover, we invite you to make a note of the dates for forthcoming public seminars and conferences in Bolivia, Guatemala and Chile.

## About the JELARE project

JELARE is a co-operation project involving universities from Bolivia, Brazil, Chile, Germany, Guatemala and Latvia, funded by the EU programme ALFA III. The aim of JELARE is to foster innovative labour market-oriented educational and research approaches in the field of renewable energies at Latin American and European institutes of higher education.

*Fostering Innovative Labour Market-Oriented Educational and Research Approaches in the Field of Renewable Energy at Latin American and European Institutes of Higher Education.*

## Call for Papers: The International Conference and Fair on Education, Research & Employment in the Renewable Energy Sector – ICERE<sup>2</sup> 2010 Santiago, Chile, 11th-12th November 2010

ICERE<sup>2</sup> 2010 is a scientific conference focussing on sharing experiences and ideas related to education and research in renewable energy at institutions of higher education, as well as employment in the renewable energy sector. The conference's target group is researchers in universities, research institutions and from research-intensive industries, especially from Latin American and European countries.

### ICERE<sup>2</sup> 2010 aims to:

- provide Latin American and European organisations with an opportunity to present their works as they relate to renewable energy research, education and employment,
- discuss methodological approaches and projects which aim to integrate the topic of renewable energy and climate change in the curriculum, and research and technology transfer activities of colleges and universities,
- foster international cooperation in the renewable energy sector between institutions of higher education and enterprises, NGOs and ministries.



The conference comprises plenary sessions with keynote speakers from the main research funding institutions, industries and prominent academics. Additionally, parallel oral sessions will be scheduled with focus on the latest academic developments, consisting of paper presentations and discussions. Moreover, the conference also entails a fair, and companies and institutions working in the field of renewable energy are warmly invited to showcase their modern products and equipment as part of it.

Authors are invited to submit abstracts for oral presentation within the scope of the conference for the following topics:

- Applied research on renewable energy
- Design and improvements of curricula for renewable energy
- Labour market experience in the renewable energy sector
- Technological aspects of renewable energy and their impact on climate change

- Research aspects of climate change and renewable energy at colleges and universities
- Educational aspects of climate change and renewable energy at colleges and universities

Selected papers may be published in a peer-reviewed journal. Further information and registration is available at:

[www.jelare-project.eu/icere2](http://www.jelare-project.eu/icere2)

RE Consulting Center, the celebration of two meetings on RE capacity construction, the implementation of an Environmental and RE Management System within UGAL and, finally, efforts to make the national and transnational evaluation of all activities.

With regard to curriculum modernisation, the main proposed activities include the promotion and implementation of a one-year postgraduate set of courses on Sustainability, Environment and RE, aimed at establishing a Master Degree Programme the following year; revise the curricula of RE-related careers, build alliances and launch promotion campaigns about new careers and courses. Efforts on technology transfers anticipate the elaboration and implementation of a pilot module on long-distance education that is already underway at UGAL with a Master Degree in RE.

The 2010-12 Strategic Plan also anticipates the implementation of an exchange programme between RE students and the industry, and another one with the Ministry of Energy and mines. The evaluation indicators aim to correct deviations in 2010 and 2011, the last two years of the JELARE project and take care of its sustainability activities once the project is finished in 2011. The budget, as in all strategic planning formulations, will be revised according to the progress made.

## News from partners

### Bolivia: International Seminar "Fundraising and Research Management in Renewable Energies"

On 20th November 2009, the Bolivian Catholic University hosted the international capacity-building seminar "Fundraising and Research Management in Renewable Energies" with about 50 participants

## Strategic plan for fostering renewable energy topics at Galileo University, Guatemala

As part of the JELARE project, all partner universities are in the process of developing a strategic plan on how to include renewable energy topics into the curriculum as well as research and technology transfer activities.

Galileo University, the Guatemalan JELARE partner has developed a strategic plan for the period 2010-12. The strategic plan consists of a SWOT (Strengths, Weaknesses, Opportunities and Threats) analysis and three strategic areas that were defined. In addition, for each strategic objective, logical frameworks were devised, evaluation indicators formulated and a tentative budget was assigned to the whole plan.

**I. SWOT analysis:** The following outcomes were highlighted: UGAL is at the top of all universities in Guatemala regarding teaching and collaborations with the private sector. The latter showed significant growth last year. On the other hand, the government is promoting these activities. Four main weaknesses were detected in the relationship between the market and universities: 1. The gap between research and teaching; 2. The breach be-



tween environmental studies and RE; 3. Tensions between specialisation and multidisciplinary perspectives, and finally 4. Significant deficits in internal and external coordination among universities and external cooperation's bodies that are oriented to RE. On the other hand, innovative RE practices have grown mainly since 2007, following the oil crisis.

**II. Strategic areas:** They revolve around 3 areas: (1) Strengthen RE research activities, (2) Revise and consolidate curriculum modernisation, (3) Activate technology transfers. With regard to research efforts, they are geared towards linking JELARE's transnational activities around a pilot module on low-cost energy generation. Other activities include the promotion of a

from local universities and from the international consortium of the JELARE Project.

The main objectives of the seminar were to exchange experiences in fundraising and research management in renewable energies at the JELARE partner universities and to train university staff in fundraising and research management skills, as well as to enable them to develop long-term research strategies in the field of renewable energies.

The programme included speeches from experts of the Bolivian government, NGOs and international cooperation, e.g. "Fostering the nexus between HEIs and the renewable energy market" by the Vice Minister of Science and Technology or "International Cooperation in Environment, Climate Change and Renewable Energy" by the Spanish Agency for International Development Cooperation.

**Brazil: Mercosur Post Copenhagen Seminar**

The "Mercosur Post Copenhagen" Seminar, a capacity-building seminar, took place on 19 and 20 March 2010 in the Central Office Auditorium of Universidade Federal de Santa Catarina (UFSC) in Florianópolis. The seminar was a forum for public administrators, diplomats, parliamentarians, businessmen and



academics to discuss renewable energies, regional integration and to learn what is being proposed in Brazil in order to face the consequences of climate change.

In the seminar, Guilherme Cassel, Agrarian Development Minister, talked about the generation of green jobs. Speakers of the Mercosur Parliament and from institutions dedicated to regional integration, diplomacy and renewable energies represented the four MERCOSUR countries.

The seminar was an initiative of Regional Integration Center - Cefir Uruguay, the Instituto IDEAL, Federal University of Santa Catarina (UFSC) and the University of the South of Santa Catarina (UNISUL)/ project JELARE - Joint European-Latin American Universities Renewable Energy Project.

Climate change is a permanent issue on the global economic and political agenda. The recent disasters on the American continent and also in Santa Catarina and Rio Grande do Sul have made action necessary to mitigate and adapt to climate change. However, such actions have no effect if only done locally; they must be integrated between states and even between countries.

**Guatemala: Seminar "The Study on Labour Market and Renewable Energy in Guatemala"**

The main objective of this one-day meeting at the Camino Real Hotel on 25 March was to disseminate the findings of research done during the first year of implementation of the JELARE Project and to search for inputs for the Strategic Plan 2010-2012, aiming to improve undesirable trends in the country.

Two consultants, one on RE and the other on Institutional Development, started the presentations. Firstly, Lourdes Socarrás reported on findings within the institutional framework that concerns RE activities in Guatemala. In turn, Robert Guzmán explained the methodology used to apply the three surveys: one on the RE market enterprises (51 in total, during which authorities were questioned); the other one on teaching staff (20 questionnaires were applied) and administrative teaching units at the main universities interested in the subject (10 of them were interviewed).



Dr. Nelson Amaro, the JELARE Guatemala Director, addressed participants on the main results and conclusions. Twenty-four participants from different sectors in Guatemalan society attended the session: 10 from the RE industry, 10 from universities and four from univer-

sities and NGOs. The final point of the agenda was the formation of five working groups that discussed the presentations and made suggestions regarding what should be done next to improve the match between the demand coming from the market and the qualified personnel offered by the universities.

Finally, Dr. Cyrano Ruiz, PhD, Vice President and JELARE Guatemala Supervisor, closed the session highlighting the importance of RE for global development in Guatemala and pointed out that this is a responsibility for all and not only for the government.

## Forthcoming events

### La Paz, Bolivia: Workshop for the technological diffusion of solar thermal systems

11th August 2010, 8:30 to 18:30 h

The Bolivian Catholic University, in cooperation with Energética and Windkraft Simonsfeld AG, are holding a "Workshop for the technological diffusion of solar thermal systems". The main objective of the workshop is to inform participants about the possibilities of using solar energy for hot water access, bringing it to private homes, schools, health centres and touristic infrastructure.

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### Guatemala City, Guatemala: Guatemalan Third Renewable Energy Convention 22nd September 2010

The University of Galileo is organising this event with a public exposition and a number of related conferences and workshops. As part of it, one workshop will be held on

"Intermediate Evaluation Results of the JELARE Guatemala Project".

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Please register for free membership of the JELARE Network at  
<http://www.jelare-project.eu/network.html>

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**Santiago, Chile:  
International Conference and Fair on Education, Research & Employment in the Renewable Energy Sector – ICERE<sup>2</sup> 2010  
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