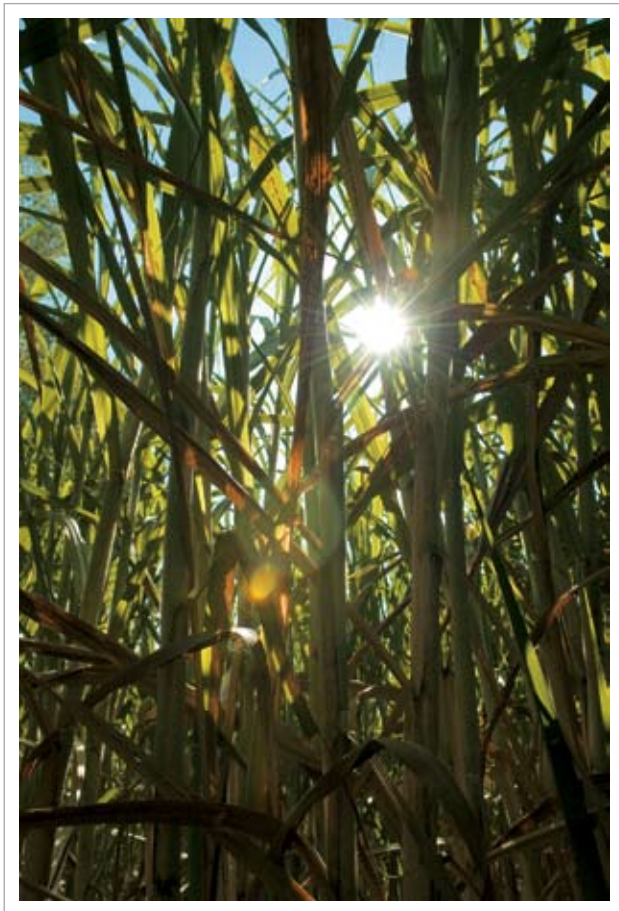


## **ORGANIZATIONAL DESIGN OF BIOEN PROGRAM: INTELLECTUAL PROPERTY, INCENTIVE MECHANISM AND IMPACT EVALUATION**

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*Photo by Eduardo Cesar*

The project aims to attend one of the components of the call for the BIOEN Program related to intellectual property and technology transfer. It consists on a multidisciplinary project that articulates economic issues, assets management and social network formation together with scientific and technical components of the researches that are being selected to join the program of studies on Bioenergy.

The project's general goal is the formulation of an organizational design that involves the projects of BIOEN considering three basic approaches: a) analysis of the demands due to distinct forms of intellectual property of technologies, supplies and genetic material that can block or create risk situations for the continuity of specific projects or even of the program itself; b) preparatory analysis of business plans based on the construction of economic exploration 'models' of BIOEN research results in different levels, from intermediate products and supplies to final products, as, for example, new improved variety. It also includes the relation between different projects and an incentive system, and scenarios of partnership formation for products development.

The models must be built up from the formation of networks that identify patent families, networks of quotations and case studies on intellectual property attribution in vegetal biotechnology, focusing the bio energy field; c) a block of ex-ante impact evaluation that provides subsidies for the formulation of business plans based on the research results.

The project strategy consists in establishing a training program with four advanced undergraduate or graduate students and a trainee in computer sciences. Under the supervision of the project, they have to prepare training material and collect subsidies from the Workshops to perform multicriteria analysis and generate scenarios in the three main areas of the project.

About ten Workshops are programmed for the 4 years project schedule, half of them with BIOEN project participants (scientists, technicians and managers) and 5 with external researchers and BIOEN staff looking forward building scenarios of property rights and evaluation of impacts.

## SUMMARY OF RESULTS TO DATE AND PERSPECTIVES

The project started in September, 2009. Three meetings was hold by the group to the initial definition of the research tasks for the next four years and the strategy to keep the three groups connect alongside the research schedule.

The team, headed by the Institute of Economics of UNICAMP comprised: a) a team responsible of the ex-ante evaluation of the impacts of BIOEN Program in selected sectors of Brazilian Economy. It has 3 senior researchers, faculty at FEA/USP – Dr Abraham Yu has the role of coordinator of one research area – and a group of graduate students; b) a team in charge of FTO and MTA analysis, headed by Prof. Maria Beatriz Bonacelli, faculty of the Department of Technology and Science Policy of the Geosciences Institute, UNICAMP. It comprises three more senior researches from the Public Policy Institute/UNICAMP; Federal University of Grande ABC and a Pós-Doctor Researcher placed in the



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Geosciences Institute, sponsored by a CAPES program. A group of training students will be contacted to help development of the research; c) a Contract Design and Patent Evaluation and Scientific foresight group is located at the Institute of Economics.

It is coordinated by Prof. José Maria F.J da Silveira, coordinator of the Project and Prof. Maria Ester Soares Dal Poz, faculty at Applied Sciences Institute of UNICAMP (FCA-Limeira), with the assistance of the Prof. Jacques Weiner, Institute of Computer Sciences, UNICAMP. A grant for training a graduate in Computer Sciences is planned by the research and the results are expected for the end of the year 2010. Undergraduate student with a grant for initial research sponsored by National Council for the Development of Research (CNPQ) is reviewing literature related to patent valuation.

Some contacts with research groups abroad, like University of Limburg University, Adelaide University (in Australia), and Wageningen University (at Haia, The Netherlands) and University of California at Berkeley are planned to be established in the year 2010, in the aim of gathering methodologies to sustain mostly the areas “b and c” mentioned above.

## MAIN PUBLICATIONS

As mentioned above, the project is its very beginnings. Up till now there is no papers published based by the research team. It worth mentioned a that a paper related to Intellectual Property in Agriculture was presented by Adriana Pinto Vieira in the XIII Latin American Meeting in Technological Management, ALTEC, in November, 2009, in Cartagena das Indias, Colombia.

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