SCIENZA PER L'AMORE

CNR CONFERENCE - POST EVENT PRESS RELEASE

HYST Technology: Food and Sustainable Energy from Biomass
Research Area RM1 *CNR – Via Salaria, km 29.300, Rome*

On 23 February 2012, the Montelibretti premises of the Italian National Research Council hosted the study conference on "***HYST Technology: Food and Sustainable Energy from Biomass***" organised by CNR Research Area RM1 and the *Scienza per l'Amore Association* with the collaboration of BioHyst.

The meeting was opened by Renzo Simonetti, Head of Research Area RM1, who explained briefly the activities of the various departments connected to the structure.

His intervention was followed by that of Professor Pier Paolo Dell'Omo (Department of Astronautical, Electrical and Energy Engineering at La Sapienza University of Rome). "*With HYST technology*", said Engineer Dell'Omo, "*not only would we be able to produce biomethane at extremely low prices (about 0,53 € per liter of gasoline equivalent), but also in such quantities as to meet by 2020 the European Union obligation to replace 10% of Italy's energy needs in transport with biofuels: a result that none of the current production systems of biofuels is able to achieve*".

Then Professor Luca Malagutti, Department of Animal Sciences at the University of Milan, illustrated results related to the use of HYST technology in animal food science, showing how some typical constituents of animal feed, such as bran and cereal straw, become more digestible and more nutritious if treated with HYST (Hypercritical Separation Technology). "*We treated cereal bran and corn stalks with HYST technology, then we carried out chemical and biological analyses to determine the nutritional value and digestibility of the fractions.* […] *HYST technology applied to agricultural by-products can produce meal that is comparable to a high quality flour*".

With regard to human nutrition, Dr. Luciani, Istituto Superiore di Sanità (Italian National Health Institute), explained how with HYST processing it is possible to obtain from bran a flour that is extremely rich in protein, vitamins and micronutrients, which are deficient in the most commonly used all-purpose flours. Via a totally natural process, HYST technology makes available products of high nutritional quality starting from by-products (currently considered 'waste') from the milling industry, and for this very reason represents a unique opportunity to support efforts to provide nutrition in developing countries.

The second part of the meeting focused on the humanitarian aspect of this technology. Mr. Luca Urdich, of the *Scienza per l'Amore Association*, gave a description of the *Bits of Future: Food for All* project. "*This project*", explained Mr. Urdich, "*aims to fight hunger and promote optimal use of resources in developing countries through the use of HYST technology. Five African countries have officially joined the project with the intention of arriving quickly to the realization of the first industrial installations*".

Dr. Daniele Lattanzi, BioHyst compamy – which on behalf of the *Scienza per l'Amore Association* deals with the commercial and financial aspects connected to the technology – concluded the meeting by highlighting the impact that the introduction of HYST in Italy could have in economic, employment and investment areas. He focused mainly on the key sector of biofuels. "*With HYST*, *not only would Italy be able to fulfil commitments undertaken with the European Community*", said Mr. Lattanzi, "*but it would also be possible to start up in national territory an agro-energy supply chain that, when fully*

implemented, would generate revenues of over 2 billion euros (17% of the gasoline market in Italy) creating more than 12000 new jobs". He added, "*Even in the food sector we see great potentials for development. We know that we have products at the top of the functional market, in a segment that bills more than 9 billion euros every year on a global scale, and is considered one of the leading sectors of the economy of the future*".

The meeting ended with a look at the political world: "*Before now the HYST project involved universities throughout Italy – today Italy's most important scientific institute, the National Research Council. After this scientific appointment, there is nothing left but to bring the project to the attention of top Italian government representatives in order to create a program of technical and economic development*".

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