



CESAB

Research Center for Environmental Sciences and Biotechnologies **European University of Rome**

The Research Center for Environmental Sciences and Biotechnologies (CESAB), of European University of Rome, is running as an independent scientific institute since early May 2010. It is equipped with laboratories, auditoriums, conference rooms, classrooms and library media international scientific.

The specific mission of the Center is the research on energy-environment, with particular about the innovative processes for the improvement of community welfare and the development of living conditions of the community. In this context, special attention have projects providing both biotechnology industry or agriculture.

The special connotation of the academic center, operating under the supervision of ministerial bodies and, simultaneously, the religious authorities Catholic, gives the research, teaching and experimental outstanding characteristic of cultural and scientific objectivity based on the highest ethical principles.



CESAB ACTIVITIES

The areas of activity CESAB are as follows

Develop and implement models for

- Monitoring of environmental quality and natural resource management;
- End-use energy efficiency and renewable generation;
- Production of electricity through innovative technologies;
- The management and reliability of urban water and sanitation and non-urban areas;
- Statistical analysis aimed at evaluating products and services;

Run

- Psychological studies of mass analysis and socio-economic and demographic statistics aimed at development of the city and the territory;
- Studies on logical assumptions and legal and philosophical principles of European environmental law;
- Statistical analysis of observational and experimental data, simulations of models;
- Sample surveys on the quality in terms of urban services and infrastructure;

Submit

- Methods of psychological research and statistics for the study of the dynamics of urban development and land;
- Legal and statistical tools for quality control of production processes, products and environmental services;
- Software simulation of environmental pollution.

Design

- Statistical comparative experiments in industry;
- Technologies for energy efficiency;
- Software-legal environment, both for teaching purposes, both for application;

Promote:

- Training and refresher courses for technicians and researchers in the field of environmental technologies;
- Business publications and documents (books, essays, research reports, CD Rom, yearbooks, etc.);
- A competent teaching support in the areas of the University.

Centro Ricerche in Scienze Ambientali e Biotecnologie – CESAB

Università Europea di Roma - Via degli Aldobrandeschi, 190 - 00163 Roma (Italia)

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Organize

- Public events on Italian or foreign experiences in the areas of competence the Centre;
- Any other activity relating to cultural innovation, scientific and technical fields of jurisdiction of the Centre;
- Consulting and professional services to government and to other public or private.

Among the areas of jurisdiction of the Center, special emphasis has, furthermore, the ethic certification activity of business, in regard to this production processes and facilities are evaluated according to schemes adopted by all major international standards. More and more the Companies that decide to adopt a policy of social responsibility, internalizing the latter in the strategic objectives that contribute to defining the mission, and hence the same nature of the company. This choice is able to bring considerable benefits of various nature: improving image and reputation, effective management of human resources, efficient use of environmental and natural resources, better management of business risk and relationships with financial institutions, thereby increasing the attractiveness of the in the financial market.



MAIN SCIENTIFIC EXPERIENCES

- Management of Master Degree in Environmental Sciences, 6 editions, 1,500 hours of training total;
- 2012/2020: Project for the analysis of territorial socio-economic and environmental audit of an area of the Republic of Tanzania as a preliminary study co-ordination activities and certification of agricultural production and mining, on behalf of a holding agromineraria, for the exploitation of resources in some regions of the country as part of a scientific program of humanitarian aid local economic development;
- 2011/2015: Project for the socio-economic and territorial scouting aimed at the exploitation of local resources in the Republic of Slovakia. Coordination and production certification agrifuels, activated by a consortium Slovak agricultural, vegetable oils for the production of energy;
- 2011: Programme CIP/ Intelligent Energy for Europe Call for Proposal: CIP-IEE-2011 "Organic and not Organic Raw Material Energy Recovery Project". Aim of the project is to develop the production from organic and not organic raw material (for ex. vegetable biomass, organic and non organic urban waste, residues of purification implant, plastic products, car tires, ecc.) through gasification of raw materials containing carbon, which produces a synthesis gas rich in hydrogen which is burnt in a gas engine as part of combined electricity and heat;
- "From seed to kilowatt-hour: the destination agroenergetic of the biomass. The results of experiments for biogas production on sweet sorghum in the province of Foggia", Edizioni Art, Roma, 2011;
- 2010: Analysis of measures to prevent the production of waste in the city of Rome;
- 2010/2013: Certification activity to the Italian and European customers and to the Companies of the Republic of China of the chain of supply identified by analysis of information received by the activity of primary Italian companies in renewable energies field;



- 2010/2013: Researching and testing, through technical and economic analysis, projects for the production of energy from renewable sources that have an immediate effect on agricultural areas and may be an alternative production for the industries most in crisis;
- 2009: Research and development of a project for the production of biomass energy through an innovative process for the gasification of carbonaceous materials;
- 2009/2010: Production of biogas from a new generation biomass. Experiments in open fields in the province of Foggia;
- 2009: Study for the use of renewable energy and energy efficiency of buildings of the City of Rome.

The CESAB is involved in the study and development of a long series of planning proposals in relation to which carries out a preliminary evaluation activities of the technical characteristics as a function of verification of an actual presence of innovative components in the production process or in the operational quality of the finished product. In the presence of a prototype already available CESAB carries gears controlled at its laboratories in order to test the productive yields and the characteristics of the object in terms of resistance and immutability in time the conditions of operation. In the case in which the test results are acceptable according to the parameters indicated above, is processed a technical presentation of each individual project for a subsequent stage of industrialization.



EUROPEAN UNIVERSITY OF ROME

The European University of Rome is a Catholic state recognized university founded in 2005 based in Rome (Italy). Has a Department of Human Sciences with four areas (Law, Economics, History and Psychology). It is part of an international university network (Anahuac) with branches in Spain, United States, Mexico and Chile

Rector P. Paolo Scarafoni L.C.

The European University of Rome is part of Anahuac University network:

Mexico (Universidad Anáhuac México Norte, Universidad Anáhuac México Sur, Universidad Anáhuac Mayab, Universidad Anáhuac Xalapa, Universidad Anáhuac Cancún, Universidad Anáhuac Oaxaca, Universidad Anahuac Puebla, Querétaro Universidad Anahuac, Instituto de Estudios Superiores de Tamaulipas, Instituto Juan Pablo II para la Familia)

Spain (Universidad Francisco de Vitoria)

Italy (Pontifical Athenaeum Regina Apostolorum, Università europea di Roma)

United States of America (Institute for the Psychological Sciences, University of Sacramento)

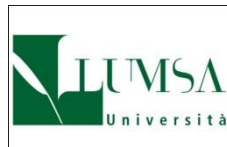
Chile (Universidad Finis Terrae)



CESAB PARTNERS



Marconi University is *the* international unit of "Università degli Studi Guglielmo Marconi", a world-class University with significant international engagements, promoting the use of innovative learning methodologies merging advanced technological solutions together with traditional activities (lectures, workshops and seminars). The University looks beyond the traditional model of academic knowledge setting ambitious goals for research and innovation. Marconi research expands from Economics, Arts to Applied Science and Technologies, in accordance with societal changes and progress.



The Libera Università Maria Ss. Assunta (LUMSA) is a private Italian Catholic university, based in Rome (Italy) founded in 1939 as the Istituto Superiore di Magistero "Maria Ss. Assunta". The LUMSA has didactic, scientific, administrative, organizational and disciplinary autonomy; It releases legally certified educational qualifications which are equivalent to those of state-owned universities.



ISTITUTO UNIVERSITARIO DI STUDI
E RICERCHE SUL TURISMO

The University Institute of Studies and Research on Tourism, based in Caserta (Italy) is an institution of higher education academic. Formed by academics with experience in the field of Tourism Sciences.

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