



EU - India Cooperation on Biomass and Bio-waste Research and Development

1ST SAHYOG SUMMER SCHOOL ATHENS, 9-16 JUNE 2013

Prof. Emmanuel Koukios

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Emmanuel Koukios is a graduate of the School of Chemical Engineering NTUA and holds a Doctorate diploma from the same School (1976). Also, holds a BSc on Economics from Athens University (1978), a MSc on Regional Development from Pantion University (1979) and a honorary degree at Bioresource Engineering from University of Veszprem (1996).

He is an expert on the field of Chemical Engineering of Biological Systems, Energy and Chemicals from Biomass, Technology Management and Strategy.

His current research activities include: Simulation and modelling of European agro-industrial production systems making possible the assessment of their potential for non-food uses; Development of "intelligent" characterisation methods, based on chemometrics and fluorescence spectroscopy/microscopy, for bioresources as chemical and energy feedstocks; R&D on appropriate pretreatment processes to upgrade agricultural biomass, particularly for thermal conversion to energy; Optimisation of biofuel (bioethanol, biohydrogen) production systems; and Evaluation of socio-economic aspects of technological change.

He has a notably number of publications and research projects.

He is the Head of Bioresource Technology Unit (BTU) with significant presence to international meetings and journals-over 100 papers in 20 years of presence.



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Dr. Neeta Sharma, Ph D

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Dr. Sharma has been associated with ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) for the last more than two decades. Her personal research expertise includes agro-industrial and bioenergy fields and the biomass production of dedicated energy crops, in particular. She is responsible for the International Projects Networking for the Bioenergy group at ENEA and has made an excellent research collaboration links with the scientists of national and international reputes including Indian authorities and prominent RTD institutes in the field of biomass and biowaste biotechnologies. She is a member of scientific, advisory and review committees of various international projects and organizations and has authored over 60 publications on the sustainable and environmental friendly biomass production of new energy crops for biorefineries. Her work has also pioneered ecological approaches for biomass production. Dr. Sharma is the project leader for the FP7 EU Coordination and support action project entitled “Strengthening networking on Biomass research and biowaste conversion – biotechnology for Europe India integration (SAHYOG)” - [EU – India Partnering Initiative on biomass production and bio waste conversion through biotechnological approaches – Mandatory India].



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Efthimia Alexopoulou, PhD

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Efthimia Alexopoulou is an agriculture engineer with PhD on the adaptability and biomass productivity of the non-food crop Kenaf in Greece. She is responsible for Energy Crops Unit in Biomass Department of CRES. Several years of RTD experience on energy crops (kenaf, switchgrass, giant reed, miscanthus, sweet sorghum, cardoon, rapeseed, castor, etc.) She was the coordinator of the QLRT5-CT2002-01729 "Biomass production chains and growth simulation model for kenaf" (completed 28/2/07, www.cres.gr/biokenaf) and of the project entitled 4FCROPS: "Future Crops for Food, Feed, Fiber and Fuel" (www.4fcrops.eu) that completed at the end of November 2010. Currently, she is coordinating the project entitled FIBRA – Fibre Crops as a sustainable source of biobased material for industrial products in Europe and China (www.fibrafp7.net). She has been Involved in several R&D projects European programmes as scientific responsible for CRES (FAIR CT97 3186, FAIR CT97 3701, FAI CT CT97 0512, OPTIMA, BIOTRIANGLE, etc.). Her research work has been presented in several papers in international journals and conferences.

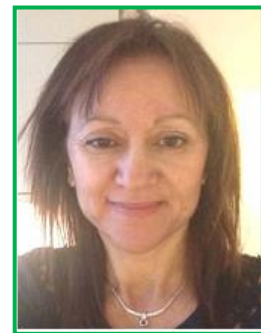


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Prof. Iriani Angelidaki

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Iriani Angelidaki is currently professor in the Institute of Environment & Resources DTU (Technical University of Denmark), at the Department of Environmental Engineering. She obtained her Ph. D. diploma at the Department of Biotechnology, DTU (1992). Her research interests are on the fields of anaerobic microbiology and processes, optimization of the anaerobic process, mathematical models for simulation of the anaerobic process, monitoring and control of the biogas process, biological production of hydrogen, microbial fuel cells and biorefineries.

She has 142 ISI publications, 12 chapters in books, 4 patents and 33 H-index.

Moreover, she is a member of the Management Committee in Anaerobic Digestion Specialist Group (IWA) since 2004, chairman of the international task group for "Harmonization of anaerobic biodegradability, activity and inhibition bioassays", (IWA) since 2005, chairman for the panel "Products and Processes" (Env., Agri. Sciences & Spatial Planning) for the Swedish Danish Research Council since 2008, member of the board for "Top research Initiative- program" for the "Bioenergy" subprogram, under the Nordic Ministerial Council since 2009, member of the committee at the Free Research Council (Research, technology and production, FTP) since 2011 and member of the committee for the "Applied science and Biotechnology" program for the European Council Research (ERC) for free research, for consolidators and starters since 2011.

She is currently the main supervisor for 6 PhD students

From 2012 Iriani Angelidaki is running a project financed by the EU (FP7) called EcolIndia and deals with energy-efficient, community-based water and waste water treatment systems for deployment in India.



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Born in Moncalieri (Italy) on 13/07/1963, got a Master cum laude on 1987, at the School of Agriculture, University of Turin. In 2004 got a Ph.D. in Agricultural System Management at Purdue University, Indiana, USA, with a thesis on logistics strategies to improve the grain elevator performance. Since 1990 he is working at the Dept. of Agricultural Engineering at the University of Turin. Currently he is associate professor.

Since 1985 he is a member of the Italian Association of Agricultural Engineers. Since 1996 he is member of the ASABE – American Society of Agricultural and Biological Engineers. He is the founder of the CIGR Working Group on logistics.

His research activity focuses in systems analysis and simulation modelling of logistics of biomass and agricultural products. Those studies involve energy balance calculations, technical and economic evaluations and system analysis to enhance the use of renewable energy in agriculture. He teaches master level classes on distribution logistics, renewable energy systems for agriculture, database management, simulation of and biomass supply chains. He presented over 170 papers on journals and international conferences and owns a patent on corn burner for drying applications.



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Dr. Ir. P.A.M. Claassen

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Pieternel Claassen is employed as senior scientist at Wageningen UR Food & Biobased research. She has a full honours degree in Molecular Sciences and a Ph.D. in microbial physiology and biochemistry, both from Wageningen University. After obtaining her Ph.D., Dr. Claassen worked at Shell Research Centre in the UK on microbial desulfurization using extremophilic bacteria. In 1987 she started her career at the Institute for Processing of Agricultural Produce which later became Food & Biobased Research. In 1995 she became manager of projects addressing the topic of energy and chemicals from renewable resources. She has been supervisor of many (post) doctoral employees and students, several coming from abroad on Huygens, Leonardo or Erasmus fellowships, or doing project research at Wageningen University and the Technical University of Delft. Besides a role as research manager, Dr. Claassen is member of the Board of the Dutch BioHydrogen Foundation, member of the Dutch BioHydrogen Network and member of the working group 'Economics of (Bio)hydrogen' of the Dutch Association for Hydrogen and vice-president of the International Association for the Hydrogen Economy (IAHE), subdivision Biohydrogen.

Dr. Claassen has great experience in the co-ordination of multidisciplinary projects. The most current examples are the European project HYVOLUTION with 22 participants (www.hyvolution.nl) from all over Europe, Turkey, Russia and South Africa and the Fuel Cell and Hydrogen Joint Undertaking project HyTIME with 9 partners all coming from research organizations and industries. Both projects address the non-thermal production of hydrogen from biomass using bacteria, and range from biomass procurement to hydrogen upgrading and utilization. Before, Dr. Claassen has been co-ordinator of several large (>MEuro) projects: Biological Hydrogen Production, ABE fermentation, Bio-energy in Wageningen, funded by the Dutch government and BIOHYDROGEN, ANIMO (New bioprocess for the production of 'green' agrochemicals), funded by the EU.

In September 2011 Dr. Claassen was appointed as the first Chairholder of the Chair "Zero waste technology for the palm oil industry at the National University of Malaysia in Kuala Lumpur.

Dr. Claassen has numerous publications and holds a patent on the combination of A(I)BE and hydrogen fermentation. She has been nominated for the International Energy Agency Award 2012 with her work in HYVOLUTION.



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Dr Economidis is a graduate of the Agricultural University of Athens and holds a PhD on Biochemical Genetics from the University of Texas at Austin. His research was concentrated on protein/nucleic acid interactions related to gene expression. He worked as research associate in United States, in Belgium and in Greece. In 1987, he joined the Research General Directorate of the European Commission where he developed research sectors in the interface of Biotechnology and the Environment such as the safety of GMOs, topics of environmental biotechnology, and issues on molecular diversity. In 2005, he joined the team which developed the concept of the Knowledge Based Bioeconomy and developed sectors such as Environmental Biotechnology, Molecular Diversity, Metagenomics, GMO safety and Emerging Technologies serving Biotechnology such as the Synthetic Biology. He represented his service in the European Federation of Biotechnology, the Working Party on Biotechnology of the OECD and the EU-US Task Force on Biotechnology Research.

Dr Economidis was (till 2012) Member of the Advisory Boards of the Centre for Environmental Risk Assessment of the International Life Sciences Institute Research Foundation and of the International Symposia of Biosafety Research. He is visiting professor at the University of Athens and Crete on topics of Bioeconomy, Biosafety and Bioethics. He serves also as Advisor for the Working Group on Synthetic Biology of the EU-US Task Force on Biotechnology Research and for the ERAnet project ERASynBio on the development and coordination of the Synthetic Biology in the European Research Area.



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Anton Friedl is the Head at the Thermal Process Engineering and Simulation in the Institute of Chemical Engineering in Vienna.
He has studied Industrial Chemistry and Chemical Engineer at the Vienna University of Technology. At the same University acquired his Doctorate diploma (1990) and his Habilitation degree (1995). He has attended post-doctorate courses at the Massey University of New Zealand in the Biotechnology and Environmental Department and at the University of California Berkeley.
He has more than 200 papers in Journal and Proceedings.
His research was concentrated on Biorefinery and on Thermal Process Engineering and Process Simulation.
Regarding his professional experience Mr Friedl was the project coordinator-project manager for 4 years (1996-2000) at the AE&E GmbH appointed to R&D projects (R&D in Boiler and Power Plant Department) and to Westfield poultry litter power station in Scotland.



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Dr. Rainer Janssen, Head of Unit, is Senior Expert in the biomass field. Since more than 10 years he is involved in the production, distribution and market penetration of liquid, gaseous, and solid biofuels with special emphasis on sustainable value chains and the development of supportive framework conditions and policy regulations in the EU and emerging economies. He has coordinated a variety of international and European bioenergy projects has been invited expert for the European Commission (DG RTD, DG ENER), IEA (International Energy Agency) Bioenergy, and GIZ. Since 2009, he is a member of working group 4 on "Policy and Sustainability" of the EBTP and leader of working group 4 on "Market & Policies Development" within the Biomass Panel of the RHC TP. Finally, since 2012 he is Vice-President of EUREC Agency, the European Renewable Energy Research Centres Agency.

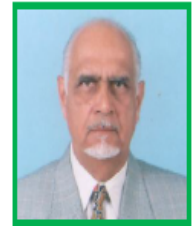


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Dr. A. D. Karve

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Dr. A. D. Karve did his B.Sc. from Univ. of Pune and Ph.D. in Botany from University of Tuebingen, Germany. After serving in various national Universities in India he joined as a Head, Agricultural Research Section, Hindustan Lever Ltd., Mumbai, India. He served as the Director in Centre for Application of Science and Technology for Rural Development, Pune and there after serving as the President of Appropriate Rural Technology Institute, Pune. With over more than 60 R & D projects completed he also guided many Ph D students. Published more than 200 research articles and reports, more than 250 popular articles, 5 books in Marathi, and 15 video CDs in English, Marathi and Hindi on technologies developed by ARTI. Dr. Karve served the Food and Agriculture Organization of the United Nations and is a recipient of several national and international awards and citations.



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Kees W. Kwant studied at the Technical University Twente; and graduated in 1992: Applied Physics, Heat and Fluid dynamics; and Business: Technology Development in Developing Countries. He worked at industry DSM to develop fermentation processes and was programme manager of the national solar energy programme of the Netherlands. He has extensive experience in developing and implementation of bioenergy in the Netherlands and abroad, develop sustainability and chaired the working group on the GHG calculation methodology.

At present he is coordinator of the Biobased Economy programs of NL Agency (www.biobasedeconomy.nl) and the linking pin between research and implementation in the framework of the Renewable Energy Program in the Netherlands. He is Executive member of the IEA Bioenergy Implementing Agreement for the Netherlands www.ieabioenergy.com . Winner of the Dutch Bioenergy price 2009 of the Platform Bioenergy.



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Mr. Gunnar Liden is currently professor in the Department of Chemical Engineering at Lund University (Sweden). He studied at the Chalmers University of Technology and acquired his Ph. D. in Chemical Engineering at the same University (1993). Before moving to Lund University he was a researcher at Chalmers University. His research interests are on the field of biochemical engineering and fermentation technology.

He is currently involved to many European programs such as LU Biofuels which aims to drive forwards sustainable solutions for the production of biofuels and bio-products from renewable bio-resources, predominately through biological conversion technologies and to support Swedish and European industries to become cost competitive and sustainable on the global market. Some projects included in the LU Biofuels are NEMO, NILE, HYVOLUTION etc.

Mr Liden is an associate editor at "Biotechnology for Biofuel" and has over 60 publications.



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Prof. Gerasimos Lyberatos

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Prof. Gerasimos Lyberatos is currently professor in the School of Chemical Engineering, National Technical university of Athens (since July 2011) and a collaborating faculty member of the Institute of Chemical Engineering and High Temperature Chemical Processes (Foundation of Research and Technology Hellas). He obtained his B.S. at M.I.T. and his M.S. and Ph.D. at CALTECH (USA) and served as Assistant, and Associate Professor at the University of Florida. In 1990 he joined the University of Patras as an Associate Professor and in 1993 became a Full Professor. His research interests are in Biochemical Engineering and Environmental Technologies. He has over 150 publications in International refereed Journals, and over 220 participations in International Conferences, 9 Chapters in books and two books. He has supervised 25 PhD theses and 15 M.S. theses. He has organized two International Conferences. Prof. Lyberatos is Editor of the Journal of Hazardous Materials (Elsevier), Associate Editor of Waste and Biomass Valorization (Springer) and is also heading a graduate programme on "Waste Management" in the Hellenic Open University.



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Massimo Monteleone, professor in Agronomy at the University of Foggia (South Italy) and coordinator of the STAR*AgroEnergy project (Strategic & Technological Advancement in Research on AgroEnergy) funded by the EU Commission, FP7, Programme Capacities, Regpot 2011. STAR*AgroEnergy promotes an integrated approach to renewable energy generation and knowledge based bio-economy, according to sustainability criteria.

Main research interests: crop ecology; environmental analysis and agro-ecosystem planning; agricultural planning; biomass and bioenergy; crop irrigation, crop water and salt stresses. He is coordinator of the Ph.D. course on "Rural Land and Sustainable Agro-systems" and vice-coordinator of the Doctorate School in "Environment and Landscape cultures". He is currently teaching: "Crop Ecology" (Bachelor degree) and "Environmental and Territorial Agronomy" (Master degree); rector delegate on environmental and territorial policies.



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Dr. Vincenzo Motola

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Vincenzo Motola is a Post Doc researcher working for REMEA (Renewable Energy Mapping and Monitoring in Europe and Africa) European Commission and JRC (Institute for Energy and transport). He is responsible for a variety of projects such as the development of spatial databases on renewable resources availability, exploitability, sustainability constraints assessment, technical support to the European Biomass conference, enlargement and integration plan for bioenergy inside Danube Strategy EU Commission and bioenergy initiative, xscientific support for network of African renewable energy research bodies set up in the AFRETEP context. After he acquired his diploma from the University of Bari (Italy), Mr Motola had been a project designer at the BTCV (British Trust Conservation Volunteers-2001) and a project coordinator at the Cipex International (2002-2003) From 2003-2012 he was a researcher, responsible for GIS (Geographical Information System) Laboratory for biomass assessment at the ENEA (Italian National Agency).



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Sarma Mutturi received Ph.D. in Biochemical Engineering, from IIT Delhi, India in 2011. Later he moved to Lund, Sweden to pursue post-doctoral studies at Dept. Chemical Engineering, Lund University. He is presently working in an EU project, NEMO, under the supervision of Prof. Gunnar Lidén. His research interests are development of fermentation technology for efficient lignocellulose conversion and systems biotechnology.

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Doctorate in Environmental Biotechnology and a Masters in Environmental Science. Eight years of research experience including PhD; working in multi-dimensional projects in industrial wastewater treatment, wasteland reclamation and restoration, biofertilizers, sustainable agriculture, biofuels and bioenergy, Life cycle analysis (LCA). Also have a PG diploma in Intellectual Property Rights (IPR). Other expertise includes conceptualization, writing and executing scientific projects; working experience in international environment. Presently, I have published 16 peer-reviewed articles, 7 book chapters and have communicated at several conferences either as oral presentations or posters. My current H-index stands at 8.

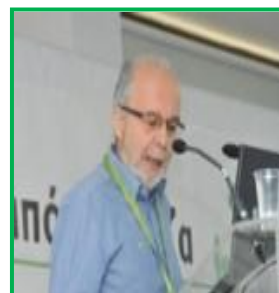


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Prof. Nikos Papayannakos is currently professor in the School of Chemical Engineering in the National Technical University of Athens. He obtained his main diploma and Ph.D. at the NTUA and his M.Sc. at U.M.I.S.T (UK). His research interests are in Catalytic Reaction Engineering, Reactor Design and Simulation, Petroleum Hydroprocessing, Biodiesel/Green diesel Production Processes.

Mr Papayannakos has a cooperation with the R&D Departments of I.F.P. (Lyon, Solaize), Hellenic Aspropirgos Refineries (Athens, Greece), Motor Oil Hellas, Air Liquide (London, U.K.) and B.P. (London, U.K.), for reactor simulation and scale-up and applications in industrial processes and with Hellenic Research Cement Center (Athens, Greece) for catalyst development.

Besides that he has the management of research projects related to industrial applications funded by the European Community, Industry and General Secretariat for Research and Technology of the Hellenic Ministry of Industry.

He has over 80 scientific publications in Journals (ISI), and more than 100 scientific presentations.



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Dr. Sarma has been associated with TERI for the last ten years. He is currently designated as a Fellow and is also the Convener of the Microbial Biotechnology group of the institute. After post-doctoral research in INSA Toulouse, France, he continued his research in the Microbial Biotechnology area of TERI. He has been associated with TERI University as an Adjunct Faculty since 2004. His personal expertise and research interests include investigations in application of (bio)energy, exploitation of non-cultivable microbes through metagenomics, and use of microbes in environmental restoration and clean up. Dr. Sarma is the Principle investigator for three bilateral projects; with Australia (on Marine Bioremediation with University of New South Wales, Sydney and Flinders University, Adelaide), with Spain (on Bio-electro chemical cells with University of Santiago Compostela) and a multilateral European Commission's FP7 project with seven EU and six Indian partner institutes. Dr. Sarma has 20 international research publications and has presented his work in various national and international forums. He also has one patent to his credit and is currently supervising one Ph.D scholar.