

Towards Water, Food And Health Security

About Karunya Institute of Technology & Sciences

Karunya Institute of Technology & Sciences is the fulfilment of the Vision of its Founders, Late Dr. D G S Dhinakaran and Dr Paul Dhinakaran, the present Chancellor. Established in 1986 as an Engineering College, it was granted an autonomous status in 1999 and declared a Deemed-to-be University by the University Grants Commission (UGC) in 2004. The Institute is accredited by NAAC, offers a wide array of Bachelors, Masters and Doctoral Degree Programmes in various branches of engineering, biotechnology, food processing and agricultural sciences. Situated in a 720-acre campus amidst the sylvan surroundings of the Nilgiri Biosphere in the Western Ghats- a Heritage Site of the UNESCO. The campus offers a perfect ambience for academic and research development and spiritual enrichment. From a humble beginning of 180 students, the Institute has grown in strength to 8491 students and 452 faculty representing 18 academic departments.

Karunya Institute of Technology & Sciences has launched the School of Agriculture and Biosciences which offers Programmes in Agriculture, Food and Biotechnology from the academic year 2017-18. The aim of the School is to conduct research in agriculture and horticulture, as well as to provide the highest level of education with a focus on livelihood and societal needs. The Institute has collaborations with reputed institutions in Israel, such as Technion of Haifa, Hebrew University of Jerusalem, Ben-Gurion University of Beer Sheva and the Blaustein Institutes of Desert Research. A Model Agriculture Station is being established in the campus to execute academic, research, extension activities. The Agriculture Programmes are designed to develop skills and explore career areas in agriculture. The instructional programme includes topics in plant, animal and food sciences, horticulture and landscaping, soil, water and environment.



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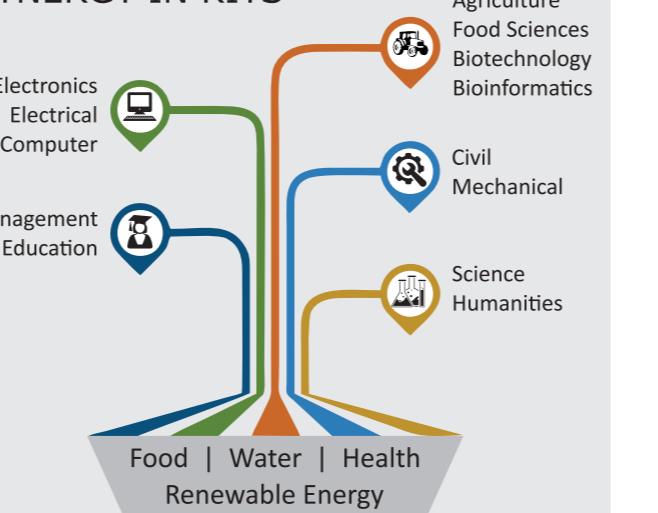
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SYNERGY IN KITS



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Exchanging MoU with Technion



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ICAFB 2018

International Conference on Emerging Synergies in

Agriculture, Food Processing Engineering, and Biotechnology

SECOND ANNOUNCEMENT

21|22|23

February 2018



Karunya
INSTITUTE OF TECHNOLOGY AND SCIENCES
(Deemed-to-be University)

Karunya Nagar, Coimbatore - 641 114, Tamil Nadu, India
(NAAC Accredited)
<http://www.karunya.edu/agri/icafb2018>

Background

The world population is expected to reach 8 billion in 2025 with a significant increase in developing countries. The need for sustainable development has already been recognized so that the present generation meets its needs without encroaching into the right to survival of future generations. The predicted climate change has added a new challenge to sustainable development. Scientific management of natural resources and their optimum utilization are expected to help us in achieving water, food and health security. Further, there is an urgent demand for growing improved seeds which yield good crops, efficient water and energy conservation, application of micro-irrigation, precision farming, effective storage of food with cost-effective packaging using advanced technologies and maximizing crop yield with optimum input of fertilizers, nutrients and machine hours. Also, the applications of environmental and radioactive isotopes in agriculture, sensors and artificial intelligence are to be explored. While addressing the questions on livelihood, it is necessary to consider the links among the relevant factors so that the desired goals can be achieved. Also, it is essential to have sustainability in food, agriculture practices, natural resources utilization, environment, health and hygiene and eco-friendly technologies to maintain coherence in a balanced ecosystem.

It is in this background that the present conference has been envisaged to address different issues related to agriculture and food and to understand the role of biotechnology in enhancing agriculture and food production. The links among these areas and the advantages of realizing the synergy among these are expected to be of use in formulating future science and technology and other related policies. The International Conference envisages to provide a common platform for academicians, scientists, industrialists, practicing professionals and stakeholders to share their knowledge and plan for collaborative activities in the areas of concern with the experts from across the globe. They can also come out with appropriate recommendations and also chalk out strategies for natural resources management and ecosystem approach.

Themes & Topics

AGRICULTURE SCIENCES & TECHNOLOGY	FOOD PROCESSING ENGINEERING	BIOTECHNOLOGY & BIOINFORMATICS
<ul style="list-style-type: none"> Agricultural systems and production Organic agriculture/farming Crop breeding, genetics and genomics Wetland and plantation crops Green agriculture Remote sensing, geo-informatics and crop modeling in agriculture Agro-biodiversity Information technology, automation and precision farming Sustainable agriculture Integrated pest and nutrient management Carbon credit in modern agriculture Urban agriculture Nanotechnology applications Green houses and horticulture Integrated resource management in cropping system Soil health and productivity Germplasm management Landscape horticulture Advancements in farm machinery 	<ul style="list-style-type: none"> Beverage and fermentation technology Food and nutrition science Advances in food processing preservation and packaging Food safety, hygiene and quality assurance Functional foods, nutraceuticals and bioactives Control and system engineering Artificial Intelligence in food engineering Traditional food product technology Natural colourants and flavorants 	<ul style="list-style-type: none"> Medicinal and aromatic plants Phytomedicines Molecular pharming Agricultural biotechnology Bio-catalysis Nanobiotechnology Livestock biotechnology Plant genetic engineering Biosystem research Agri and nutrigenomics Systems biology Metabolic engineering Next generation sequencing Proteomics and metabolomics
AGRICULTURAL WATER MANAGEMENT <ul style="list-style-type: none"> Soil and water conservation Climate change and agriculture Application of sensors in irrigation Irrigation water management Wastewater management in agriculture Application of sensors and IoT Watershed management Conjunctive use of surface and groundwater 	<p>The diagram consists of a central circle labeled "SPECIAL SYMPOSIA" surrounded by four quadrants. The top-right quadrant is orange and labeled "Precision farming". The top-left quadrant is green and labeled "Micro-irrigation techniques". The bottom-right quadrant is blue and labeled "Functional foods". The bottom-left quadrant is red and labeled "Crop biotechnology". The text "Next generation sequencing" is written vertically along the left edge of the diagram.</p>	<p>PROCEEDINGS, EDITOR –IN– CHIEF Dr. Megh R. Goyal Sr. Technical Editor-in-chief, Apple Academic Press, USA.</p>

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Call for Papers

Guidelines for Abstract

The Abstract of the paper should be of 250 words clearly stating the background, objectives and brief methodology of work with highlights of the results.

Paper Submission Guidelines

The abstract may be uploaded online. On acceptance, the full length paper may be submitted in the template given below. After the review by the technical committee, the status will be intimated. For online Registration, visit our website. <http://www.karunya.edu/agri/icafb2018>

Dates to Note

Abstract submission	: 15.01.2018
Abstract acceptance	: 20.01.2018
Full paper submission	: 07.02.2018
Early bird registration	: 20.01.2018
Late registration	: 15.02.2018

Registration Details

PARTICIPANTS	EARLY BIRD REGISTRATION (20.01.2018)	LATE REGISTRATION (15.02.2018)
Academicians, Scientists & Researchers	Indian/ Foreign	₹ 2,000 / \$ 150
Industries and Govt. Organisations	Indian/ Foreign	₹ 2,500 / \$ 200
Students and Scholars	Indian/ Foreign	₹ 1000 / \$ 100
Visitor /Spouse, Accompanying Delegates	Indian/ Foreign	₹ 1000 / \$ 100



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Electronic Clearing Service (credit Clearing)/ Real Time Gross Settlement (RTGS)
Facility For Receiving Payments

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Nanotechnology Centre supported by Nano Mission Initiatives (KITS)

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9-Digit Code No. of Bank & Branch	641025010
Account Number	61372200013924
Account Type(SB/CURRENT/CASH/ CREDIT Etc.)	SB
IFSC Code No. of Bank	SYNB0006137
Swift Code	SYNBBINBB027



Prof. Yoram Oren in WI (KITS)