

INTERNATIONAL CONFERENCE ON:
**PROSPECTS OF
BIOSCIENCE IN INDUSTRY**

DECEMBER 11–12, 2019



Organized by

***POST GRADUATE DEPARTMENT OF BOTANY
ST. JOSEPH'S COLLEGE (AUTONOMOUS)
IRINJALAKUDA***

Celebrating
40th
Ruby Jubilee



In association with
**Social Forestry
Kerala Forest Department
Government of Kerala**

Venue: MMT Hall, Research Block, St. Joseph's College (Autonomous), Irinjalakuda

ST. JOSEPH'S COLLEGE, IRINJALAKUDA is an autonomous college for women, affiliated to the University of Calicut, and managed by the St. Joseph's Educational society of the Congregation of the Holy Family. This institution was established in 1964 for providing higher education to young women from the middle & lower strata of society in the rural suburbs of Irinjalkuda. The institution has been endeavoring to fulfill its stated mission of imparting value based holistic instruction and molding empowered women fit for the society, the nation and the world, for the past 55 years, drawing inspiration from the visionary zeal of St. Mother Mariam Thresia the foundress of the Congregation of the Holy Family.

DEPARTMENT OF BOTANY started functioning with Pre Degree programme in 1964. Now the department offers B.Sc. Degree programme (Aided) and M.Sc Degree programme (self financed). Besides, it offers Certificate courses in Mushroom cultivation, Bio-pesticide and Bio-fertilizer production, Hydroponics and Aquaponics. We also offer open course in Applied Botany to students other than Botany stream and a short term course on Basics of Tissue culture under Moodle platform.

The department is collaborated with research institutions and pharmaceutical companies like Oushadhi, Thrissur; Kerala Forest Research Institute, Peechi; Kerala Agricultural University, Vellanikkara; Vaidyaratnam Ayurveda College, Thakattussery; National Bureau of Plant Genetic Resources, Vellanikkara and M.S Swaminathan Research Foundation, Wayanad. Since its establishment, the Department has taken strenuous efforts in nurturing and empowering young women in achieving their academic goals and has rendered all support towards their social commitment.

ABOUT THE CONFERENCE

Bioscience research has an important role in the provision of affordable, safe and sustainable food, in promoting lifelong health and wellbeing and in the development of bio-based technologies to support clean and sustainable industry. Researchers across the world are working together to develop bio-based processes for sustainable production of high value products, to develop innovative approaches for plant based drug discovery and production, to find alternate sources for sustainable energy and to replace non-biodegradable plastics with biodegradable plastics. The conference entitled "Prospects of Bioscience in Industry" will benefit students to gain insight into the recent research policy and the new frontiers of Bioscience in industry.

With immense pleasure we invite you to participate in this International Conference and look forward to your esteemed presence.

Dr. Meena Thomas Irimpan
Head of the Department

Dr. Sr. Isabel
Principal

**Programme Schedule
December 11, 2019**

**Inauguration &
Inaugural Address**

10.00 AM- 10.30 AM

: **Fr. John Paliakara CMI**

Exe. Director, Christ College of Engineering,
Irinjalakuda.

Technical Session I

10.45 AM - 11.45 AM

: **Wild Life Conservation**

Mr. Prabhu P.M.

Asst. Conservator of Forest, Thrissur

: **Dr. Aneesh E.M.**

Director, CDRL, St Joseph's College, Irinjalakuda

Technical Session II

11.50 AM-12.50 PM

: **Biofuels**

Dr. Indu Ambat

Researcher

LUT school of Engineering

Lappeenranta- Lahti University of Technology

Finland -50130

Chair

: **Dr. Kavitha O.**

Asst. Professor, Department of Biotechnology

Technical Session III

2.00 PM-3.00 PM

: **Ethnopharmacological Studies on Amazon Plants in Brazil**

Dr. Arunachalam Karupasamy

Post Doctoral Fellow

Federal University of Mato Grosso (Ufmg), Brazil

Chair

: **Dr. R. Sindu**

Scientist, NIIST, Thiruvananthapuram

3.00 PM - 3.30 PM

: **Paper Presentations**

December 12, 2019

Technical Session IV

9.30 AM - 10.30 AM

: **Technological advancements, innovations and challenges
in biopolymer production**

Dr. R. Sindu

Scientist, Microbial process and Technology Division,
CSIR-National institute for Interdisciplinary Science and
Technology, Trivandrum, Kerala.

Chair

: **Dr. Roselin Alex**

Asso. Professor, PG Department of Botany

Technical Session V

10.45 AM- 11.45 PM

: **Floristic Diversity of Western Ghats- Phytochemical
Perspectives**

Dr. K. B Ramesh Kumar

Senior Scientist,

Jawaharlal Nehru Tropical Botanical Garden and Research
Institute, Trivandrum

Chair

: **Dr Alfred Joe**

Asst Professor, PG Department of Botany

Technical Session VI

11.45 AM- 12.45 PM

: **Technology for the production of industrially important
enzymes**

Dr. Nimy P. Pallan

Asst. Professor, Department of Biotechnology Engineering,
MET'S School of Engineering, Mala

Chair

: **Dr. Binu T.V.**

Asst. Professor, PG Department of Botany

2.00 PM- 3.00 PM

: **Paper presentations**

3.00 PM- 3.30 PM

: **Valedictory Session**

Thrust Areas:

Biofuels, Biopolymers, Phytochemicals, Ethnopharmacological products, and Sustainable bioresources.

Call for Papers:

Participants are invited to send their research papers relevant to the themes mentioned above for both oral and poster presentation in approximately 250 words. All the abstracts should be submitted by email to binutv@stjosephs.edu.in with the following specifications: MS Word, Times New Roman, Font 12 with single spacing, full address; presenting author's name should be bold/ italicized along with the email address.

Presentation of paper

Oral: Each speaker will be provided seven minutes for oral presentation (5 minutes for presentation and 2 minutes for discussion)

Poster: poster size 90 cm x 120 cm (W x H)

Prizes will be awarded for best presentation

Important dates:

Last date for registration: 6/12/2019

Registration fee:

Delegates/ Faculty/ Scientists: Rs 500

Research Scholars: Rs. 300

Students: Rs. 150



Advisor

Dr. Sr. Isabel, CHF

**Principal, St. Joseph's College (Autonomous)
Irinjalakuda.**

Organizing Committee

Convenor

Dr. Meena Thomas Irimpan

Organizing Secretary

Dr. Roselin Alex

For more details contact:

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Executive members

Dr. Binu T.U.

Dr. Alfred Joe

Ms. Shimi K.S.

Ms. Saranya U.S.

Ms. Reshma K.

Ms. Anju Sudhakaran

INTERNATIONAL CONFERENCE ON PROSPECTS OF BIOSCIENCE IN INDUSTRY

December 11 -12, 2019

Bioscience research has an important role in the provision of affordable, safe and sustainable food, in promoting lifelong health and wellbeing and in the development of bio-based technologies to support clean and sustainable industry. Researchers across the world are working together to develop bio-based processes for sustainable production of high value products, to develop innovative approaches for plant based drug discovery and production ,to find alternate sources for sustainable energy and to replace non- biodegradable plastics with biodegradable plastics. At St.Joseph's College, Irinjalakuda the conference entitled **"Prospects of Bioscience in Industry"** was jointly organized by Department of Botany and Social Forestry Department, Govt. of Kerala. This will benefit students to gain insight into the recent research policy and the new frontiers of Bioscience in industry.

Inauguration

The inauguration was done by the Fr. John Paliakkara, Ex. Director of the Christ College of Irinjalakuda. The meeting was presided over by Dr. Sr. Isabel , Principal St.Joseph's College, Irinjalakuda. Welcome address was done by the head of the department of botany, Dr. Meena Thomas Irimpan. Dr. Naijil George IQAC Coordinator and Mr. Prabhu P.M, Asst. Conservator of Forest , Thrissur felicitated the function. During the inaugural function release of the CD of the Proceedings was done. Vote of thanks was proposed by Dr. Roselin Alex, . department of botany|



Inaugural address by the Fr. John Paliakkara, Ex.Director , Christ College of Engineering Irinjalakuda.



Inauguration by the Fr. John Paliakkara, Ex. Director, Christ College of Engineering Irinjalakuda.



. Welcome address by the head of the department of Botany , Dr. Meena Thomas Irimpan



Felicitations by Mr. Prabhu P.M, Asst. Conservator of Forest , Thrissur .



Felicitations by Dr. Naijil George the IQAC Coordinator



Release of the CD of the Proceedings



Proposing vote of thanks by Dr. Roselin Alex, Asso.Professor of Department of Botany

Technical Sessions of the conference.

Resource Person for Technical Session 1 was Mr. Prabhu P.M, Asst. Conservator of Forest , Thrissur. The topic was Photography and Wild Life Conservation. The session was chaired by Dr Aneesh E.M.Director,CDRL,St Joseph's College,Irinjalakuda



Technical Session 1 by Mr. Prabhu P.M, Asst. Conservator of Forest

Resource Person for Technical Session Technical Session II was Dr . Indu Ambat Researcher, LUT school of Engineering, Lappeenranta- Lahti University of Technology,Finland -50130. The topic was Biofuels and chaired by Dr Kavitha O.(Asst.Professor,Department of Biotechnology)



Technical Session II by Dr . Indu Ambat



Dr. Bindhu K..P chairing the Session (Head, Research Dept of Botany, Carmel college, Mala)

Resource Person for Technical Session Technical Session II1 was Dr. Arunachalam Karupasamy, Post Doctoral Fellow, Federal University of Mato Grosso(Ufmt), Brazil. The topic was Ethnopharmacological Studies on Amazon Plants in Brazil and chaired by Dr Bindu K.B (Head, Research Department of Botany, Carmel College Mala)



Technical Session Technical Session II1 by Dr. Arunachalam Karupasamy,



Chairing of Technical Session Technical Session II1 by Dr kavitha . O



Resource Person for Technical Session Technical Session IV was Dr. R.Sindu , Scientist, Microbial process and Technology Division, CSIR-National institute for Interdisciplinary Science and Technology, Trivandrum, KeralaThe topic was Technological advancements, innovations and challenges in biopolymer production chaired by Dr. Roselin Alex (Asso. Professor, PG Department of Botany)



Delivering the lecture in the Technical Session IV by Dr. R.Sindu

Technical Session V was handled by the Resource Person K. B Ramesh Kumar Senior Scientist, JNTBGRI, Trivandrum. The topic was Floristic Diversity of Western Ghats- Phytochemical Perspectives. The session was Chaired by Dr. R.Sindu, Scientist, Microbial process and Technology Division, CSIR-National institute for Interdisciplinary Science and Technology, Trivandrum, Kerala.



K. B Ramesh Kumar delivering a talk on Floristic Diversity of Western Ghats- Phytochemical Perspectives



Mrs.Nimy P Pallan talking on Technology for the production of industrially important enzymes



Chairing of the session by Dr.Binu T.V

Technical session VII was handled by the Resource person Mrs.Nimy P Pallan, Asst. Professor, Department of Egg, MET'S School of Engg. Mala, The topic was "Technology for the production of industrially important enzymes and chaired by Dr.Binu T.V. Asst. Professor, PG Department of Botany.



Paper presentation



Evaluating paper presentation by Dr Egy T Paul ,Dr. Beena Anto K. (Retired HOD s of the Departmnt) and Dr Tessy Paul (Asso. Professor , Christ College, Irinjalakuda..



Valedictory function was presided by Dr. Meena Thomas Irimpan, (HOD Department Of Botany , St. Josephs College Irinjalakuda)



Awarding the best paper presentation to Dr . Sandhya Vincent Neelamkavil, Asst. Professor St. Thomas College Trichur

There are 43 presentations based on the focal theme of the conference from 4 colleges within the Kerala state and 1 college from Tamilnadu. 5 students are from Tamilnadu. The best paper presentation award was given to Dr. Sandhya, Asst. Professor, St. Thomas College Trichur and Second Prize to Ms. Anjana Sajeev, 1V Semester MSc, Department Of Botany, St. Josephs College Irinjalakuda. The Valedictory function was presided over by Dr. Meena Thomas Irinpan, (HOD Department Of Botany, St. Josephs College Irinjalakuda. Dr. Egy T Paul, Dr. Beena Anto K. (Retired HODs of the Department) and Dr. Tessy Paul (Asso. Professor, Christ College, Irinjalakuda).