

## SEMINAR NO: 6

**NAME OF THE DEPARTMENT:** ENVIRONMENTAL SCIENCE

**TITLE OF THE SEMINAR:** CLIMATE CHANGE IMPACTS ON BIODIVERSITY, ENVIRONMENT AND ITS MANAGEMENT

**DATE:** 19-02-2019 to 20-02-2019

Accommodation can be arranged on prior request and payment in advance on or before 5<sup>th</sup> of February, 2019.

**Registration Dates**  
Registration and Submission of Abstract: Jan 23<sup>rd</sup>  
Intimation of Acceptance: Jan 26<sup>th</sup>  
Submission of full length paper: Jan 30<sup>th</sup>  
Last date of Registration: Feb 5<sup>th</sup>

**Payments**  
Payments towards CBEM-2019 shall be made by Demand Draft drawn in favour of DCF, Department of Environmental Sciences payable at Anchal or through money transfer to the Account No.534867312 at Indian Bank Anchal Branch, IFS code:IDIB00A446

**Organizing Committee**

**Patron:** His Beatitude Moran Mor Baselios Cardinal Cleemis Challova

**Vicar General:** Rt. Rev. Msgr. Dr. Mathew Manakarakal

**President:** Rev. Fr. Johnson G. (Principal, St. John's College)

**Bursar:** Rev. Fr. Philip Kansankulam

**Convener:** Dr. Brilliant Rajan  
Head of the Department (9448917941)

**Organizing Secretary:** Dr. Anils George  
Assistant Professor (9496195450)

**Co-ordinators:** Prof. Kaladevi V.  
Assistant Professor (9495958225)  
Dr. Alexander T.  
Assistant Professor (9447302192)

National Seminar  
On  
**'Climate Change Impacts on Biodiversity, Environment and its Management'**  
19<sup>th</sup> & 20<sup>th</sup> February 2019

# CBEM-2019




**CBEM-2019**

Organized by  
PG Department of Environmental Sciences  
St. John's College, Anchal  
(Re-Accredited with 'A' Grade by NAAC)

Sponsored by  
Directorate of Environment and Climate Change  
Govt. of Kerala

**St. John's College, Anchal**

St. John's College, affiliated to the University of Kerala, was founded in the year 1964 by His Grace Basilios Mar Gregorios, the Late Arch Bishop of Thiruvananthapuram. The college stands for providing opportunities to the students towards academic excellence, creativity, spiritual vitality, social relevance, discipline and for holistic development. The college is Re-Accredited by NAAC with 'A' grade during 2015. In addition, the college advances in to the glorious realm of 'STAR College' status and also recognized for 'DST-FIST' programme in 2016. The College also got ranked in the RUSA infrastructure fund list in 2016.

**About the Department**

The PG Department of Environmental Sciences was established in the year 2001. The vision of the department is teaching the students about the importance of protection and conservation of our natural resources and consequences of unsustainable activities and nurturing best environmental practices to serve future generations. The Department has a Water Testing Laboratory approved and accredited by the Kerala State Pollution Control Board, and offers consultancy in drinking water quality testing.

**About the Conference**

Climate change is one of the most challenging issues with global and national significance. There has been an upsurge in climate-related hazards to human beings and their ecosystems. The climate change will have a variety of impacts on agriculture, human health, biodiversity, coastal areas and water stress, which will vary from region to region. The global community is facing considerable threats from climate change and recognizing considerable costs to cope with the climate impacts. Realizing the severity of the impacts of climate change, we have to address the climate change issues with due substance and importance to reduce the vulnerability. As far as Kerala is concerned, the topic is highly relevant in the wake of Kerala Flood 2018. It reminds us the need of all our efforts in addressing the climate change issues, understanding the scientific basis and put forward the mitigation and adaptation strategies. This conference is a platform for the scholars and students to discuss the issues and share the ideas to combat climate change hazards.

**Thrust Areas**

- Climate Change and Biodiversity
- Climate Change and Water Resource Management
- Biodiversity Conservation
- Environmental Pollution and its Control
- Environmental Impact Assessment
- Environment Management

**Call for Papers**

The participants are requested to submit the Abstract which have a clear title (Times New Roman, Capital, Bold, Font size 12) followed by author(s)-corresponding author with asterisk, presenting author should be underlined, affiliation, contact number and email. (Times New Roman, Font size 11). The abstract should not have more than 250 words and can be submitted through email [cbem2019@gmail.com](mailto:cbem2019@gmail.com) on or before 23. 01.2019 along with prescribed registration form.

The original and unpublished full length research papers on the thrust areas strictly not exceeding 8 pages (including tables, figures, graphs and references) to be organized sequentially through email [cbem2019@gmail.com](mailto:cbem2019@gmail.com) on or before 30<sup>th</sup> January 2019. As we intend to publish and release the proceedings during the conference, participants are requested to send their full length papers in the following format; Title, Abstract, Keywords, Introduction, Materials and Methods, Results and Discussion, Conclusion, Acknowledgment, Bibliography. The format for both abstract and paper must be typed in MS word, Times New Roman Font size 12 with 1.5 line spacing.

The authors are requested to indicate their choice for oral poster presentation in Registration Form.

**Oral Presentation:**  
Each participant will be provided 10 minutes for oral presentation (8 minutes for presentation and 2 minutes for discussion) strictly avoid podium in the favour any other plating forms.

**Key Resource Persons:**

Dr. Babu Joseph, Professor and Head, Dept. of Environmental Sciences & Head, Director, University Training School, University of Kerala, India

Dr. Ajay Kumar Vashisht, Associate Professor, College of Agricultural Engineering and Post Harvest Technology, Ranipool, Central Agricultural University, India

Dr. J. Joseph, Associate Professor, Dept. of Chemistry, Moorul Islam University, Kunnampal, Tamilnadu

Dr. Jude Emmanuel, Environmental Scientist, Directorate of Environment and Climate Change, Govt. of Kerala

Dr. Shijo Joseph, Scientist E1 Kerala Forest Research Institute, Kerala, India

Category	Registration before Jan 30 <sup>th</sup>	Registration upto Feb 5 <sup>th</sup>	Spot Registration
Academician/ R&D Participants	500	600	800
Research Scholars	250	350	400
Students	100	150	200

**NATIONAL SEMINAR ON CLIMATE CHANGE IMPACTS ON  
BIODIVERSITY, ENVIRONMENT AND ITS MANAGEMENT**

**Programme Report**

The Post Graduate Department of Environmental Sciences, St. John's College Anchal, organized a National Seminar entitled "Climate Change impacts on Biodiversity, Environment and its Management" during February 19<sup>th</sup> and 20<sup>th</sup>, 2019 supported by Directorate of Environment and Climate Change, Govt. of Kerala and co-sponsored by Kerala State Council for Science, Technology and Environment, Thiruvananthapuram.

The two days long meeting started on 19<sup>th</sup> morning with the registration of participants at 9.00 A.M. The inaugural ceremony starts with a prayer followed by welcome speech by Dr. Brilliant Rajan, Convener and Head of the Department. He welcomed all the dignitaries and participants and also highlighted the climate changes of Kerala. The principal Rev. Fr. Johnson G presided over the function and he raised various issues of environment and climate change in his presidential address. The Formal inauguration of CBEM-2019 was done by the Hon. Adv. N.K. Premachandran (Member of Parliament) by lighting the traditional lamp. In the brief inaugural address he stressed the need and relevance of sustainable development of our state and also highlighted the climate change consequences of the world especially in Kerala. The Bursar Rev. Fr. Philip Kannankulam and Staff Secretary Prof. Jerry C Jackson gave felicitations and the meeting concluded with the vote of thanks by the programme coordinator Dr. Anila George. She thanked the Principal, Staff of St. John's College, invited guests and participants, Directorate of

Environment and Climate Change, KSCSTE and all those who had helped in organizing the programme.

The scientific session started with the keynote address by Prof. E. Kunjikrishnan, Rtd. Professor, University College, Thiruvananthapuram. In the keynote address Prof. E. Kunjikrishnan has highlighted the status of environment and climate change with reference to Western Ghats of Kerala. According to researchers, climate change can be considered as 'wicked problem' that necessitates mankind to develop mitigation and adaptation plans. It is imperative to develop an integrated climate change contextual database and information system on environment in spatial domain for Kerala to understand the interrelationship between elements. The lecture was followed by an interactive session where the participants too actively contributed.

The next session started with the invited talk by Dr. Joseph J, Associate Professor, Noorul Islam University, Kumaracovil. The talk was based on the environmental pollution in the perspective of air, water and soil and its control. After the lunch break paper presentation was carried out. The session was chaired by Dr. M.K.P Roy, Director, CCHR, Kollam. During the session, seven presentations were made by the presenters. Each presentation was followed by a question answer session and fruitful interactions and feedbacks from the chairman and the audience. In the afternoon session the second invited talk by Shijo Joseph, Scientist, KFRI, Thrissur highlights the role of Geo-information technology for monitoring extreme climate events was discussed and efforts have to be made for preserving the natural resources by reducing green house gases and geoinformation technology has a major role to play in such efforts. After the session eight papers were presented and the session was chaired by Dr. Brilliant Rajan, Head, Department of Environmental Science.

In the second day first invited talk by Dr.Ajay Kumar Vashisht, Associate Professor, CAEPHT, Imphal was based on the effect of changing rainfall pattern (due to climate change) on the recharging rate of groundwater resources. In this change scenario, the various groundwater management strategies needs to be adapted were discussed. Following the lecture eight oral presentations were carried out. Post lunch session was started with the talk of Dr. Sabu Joseph, Professor & Head , Department of Environmental Sciences discussed the impact of mining projects on the local environment. In the talk, the audience was made aware of the Environmental Impact Assessment (EIA) Notification 2006 and its amendments in 2009. Last talk by Dr. Jude Emmanuel , Environmental Scientist, DoECC made an awareness of the climate changes of Kerala and the role of DoECC in monitoring the climate changes.

Finally, the two-day National Seminar CBEM – 2019 came to an end with a brief valedictory function where Principal Rev. Fr. Johnson G delivered the valedictory notes. At the end of this session, certificates were distributed to the participants .The function was concluded with vote of tanks by Dr.Brilliant Rajan, Head, Dept. of Environmental Sciences.

No. of Participants 115

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