



# **INTERNATIONAL CONFERENCE ON CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT**

***WITH A SPECIAL REFERENCE TO INDIAN CONTEXT***

**(ICCCSD-2017)**

@

**Madurai, Tamil Nadu, India**

***(Aug. 23-25, 2017)***

**Organized by**

**ANNAI FATHIMA COLLEGE OF ARTS AND SCIENCE**

**THIRUMANGALAM, MADURAI**

***In Possible collaboration with***

- *Madurai Kamaraj University, Madurai*
- *Water Technology Center (WTC), TNAU, Coimbatore*
- *Tamil Nadu Chamber of Commerce, Madurai*
- *Tamil Nadu State Council of Science and Technology, Chennai*
- *Science City, Chennai.*
- *Tami Nadu Agricultural University, Coimbatore.*
- *Tamil Nadu Science and Technology Centre, Chennai.*

### ***Possible Sponsors of the Program:***

- Department of Science & Technology (DST), New Delhi
- DRDO, New Delhi
- DAE, Mumbai
- Ministry of Environment, Govt. of India
- Ministry of Water resources, Govt. of India
- Ministry of Chemical & Fertilizers, Govt. of India
- Council of Scientific & Industrial Research (CSIR) under Ministry of Science & Technology, (GOI)
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- University Grants Commission (UGC) under Ministry of Human Resources, (GOI)
- Rajiv Gandhi National Drinking Water Mission (RGNDWM), Ministry of Rural Development, GOI, New Delhi
- CGWB, New Delhi.

### **ABOUT THE CONFERENCE**

The International Conference on Climate Change and Sustainable Development aims to deliberate on viable solutions to problems emerging as a result of climate change in the Indian context.

### **THEMES FOR ICCSD-2017**

#### **Climate Change and Sustainable Development**

Climate change is one of the complex problems facing mankind today. The overriding complexity of the problem is attributed to its deeper global ramifications on a vast range of issues impacting the very survival of life on Earth. Understanding such a complex issue with vast and varied dimensions and implications, assumes greater significance for all stakeholders, especially

for India's policy makers. There are varieties of perceptions regarding the exact size and consequences of climate change. Yet, it is no secret that risks emanating from climate change are indeed profound, which call for urgent mitigation. The available evidence points out to the fact that climate change is a reality that mankind has to deal on a war footing.

The World Bank Report "Turn Down the Heat: Climate Extremes, Regional Impacts, and the Case for Resilience" published in June 2013, projects that a 4° C rise in global temperature, would result in an increase extreme climatic events such as heat waves, sea level rise, storm surges, droughts and flooding mainly in South Asia. The coastal and deltaic regions of India, cities of Mumbai and Kolkata are reported to be particularly vulnerable to the risks of flooding. Major rivers such as the Ganga, Indus, and Brahmaputra, are also vulnerable to the effects of climate change due to the rapid melting of glaciers and loss of snow cover there by resulting in a significant risk of flooding.

In India climate change has impacted the natural ecosystems and is expected to have substantial adverse effects on agriculture on which 58 per cent of the population still depends for livelihood, snow cover in the Himalayan glaciers which are the source of major rivers and groundwater recharge, sea-level rise, and threats to a long coastline and habitations. Climate change will also cause increased frequency of extreme events such as floods, and droughts. These in turn will impact India's food and water security. The Hon. Prime Minister Shri. Narendra Modi also expressed his

concern on climate change and food security of the country. India is concerned about the rising ocean levels that would threaten the 7500 km of coastline and nearly 1300 islands. Retreats of the Himalayan glaciers that feed our rivers and nurture our civilization are also under threat.

## **Impacts of Climate Changes:**

### **Agriculture and Food Security:**

Climate change is projected to have significant impacts on agricultural production, in more than one way. Besides affecting crop yields, it also alters the flowering and fruiting pattern of perennial horticultural species such as apple. The pest and disease scenario has already started shifting and newer pests and diseases are emerging.

### **Water Stress and Water Insecurity**

Climate change is expected to exacerbate the current stress on water resources. By 2020, between 75 and 250 million people are projected to be exposed to increased water stress due to climate change. Water resources are expected to come under increasing pressure in the Indian subcontinent.

### **Rise in Sea Levels**

Sea level rise due to global warming is inevitable. Sea level rise occurs due to thermal expansion and melting of ice sheets. Thermal expansion would continue for many centuries even after GHG concentrations have stabilized causing an eventual sea level rise much larger than projected for the 21<sup>st</sup> century.

## **Impacts on Coastal States in India**

The coastal states of Maharashtra, Goa and Gujarat face a grave risk from the sea level rise, which could inland flooding and cause damage to coastal infrastructure and other cultivable lands. Many species living along the coastline are also endangered. The coral reefs that India has in its biosphere reserves are saline sensitive and rising sea levels threatens their existence. Other marine resources such as phytoplankton, fish stocks and fishermen who depend on marine resources are also under grave threat.

## **Impacts on India's Biodiversity**

India is a land of mega-biodiversity, encompassing eco-systems ranging from glaciers to deserts. Climate change poses a grave threat the biodiversity of the country. Mountain ecosystems which are hot spots of biodiversity are affected by rise in temperature and human activities, which led to fragmentation and degradation of the fragile mountain biodiversity. The Himalayan ecosystem is considered as the lifeline of India and our neighboring countries such as China, Pakistan, Nepal, due to the origin of perennial rivers that originate from melting glaciers. It is the Himalayan region is home to the highest number of glaciers apart from the Polar Regions. Climate change is bound to alter this fragile ecosystem forever.

## **Climate Change and Health**

Climate change poses a host of threats to the survival of mankind. The debilitating impact of climate change has broadened the sphere of discourse much beyond the traditional concern like environment or development. The far reaching consequences of climate change have forced policymakers and planners to look at every possible aspect of human survival. Arguably, it has catastrophic effects on human health. Each year, about 800,000 people die from causes attributable to air pollution, 1.8 million from diarrhea resulting from lack of access to clean water supply, sanitation, and poor hygiene, 3.5 million from malnutrition and approximately 60,000 in natural disasters.<sup>46</sup> A warmer and more variable climate would result in higher levels of some air pollutants, increased transmission of diseases through unclean water and through contaminated food.

The Nicolas Stern Committee Report stressed on reduction of greenhouse gas emissions by remodeling life style and by transiting from a carbon economy to a non-carbon economy. We need to remodel our outlook and achieve the goal of sustainable development. By adopting a combination of factors which include the adoption of clean technologies, equitable distribution of resources and addressing the issues of equity and justice, we can make our developmental process more harmonious with nature. If our thinking is right, we will form a true global partnership of capabilities and needs that leads us to a low carbon age.

### **Call for Papers**

**International Conference on  
Climate Change and Sustainable development**  
*With a special reference to INDIAN Context*

The conference would focus on four main thematic areas viz., Climate change and Climatology, Evidence of Climate Changes, Sustainability and Climate Change, Effective Adaptation and a number of sub themes spread over three days from the 23-25.Aug.2017 at Madurai, India.

**Sub Themes**

- Climate Science and Climate Modeling
- GHG Mitigation and Energy Recovery from Waste
- Solar Energy
- Wind Energy
- Land Use and Climate Change
- Bio-energy for GHG Mitigation
- Clean Development Mechanism: Principles and Practices
- Climate Change, Agriculture and Food Security
- Climate Change and Adaptation in Water Sector
- Climate Prediction and Early Warning System  
Community and Climate Adaptation
- Climate Change Vulnerability and Adaptation
- Climate Change and Water Resources
- RET screen for Renewable Energy Design  
Systems
- Clean Coal Technologies
- Science of Climate Change and Environment Co-Benefit
- Energy Resources and Technologies
- Energy Environment and Climate Change: Issues  
and Strategies

- Community and Climate Adaptation
- Climate change and Health Well being
- Tools used in Climate changes Study.
- Microclimate changes due to the impact of El-Nino in Indian context.

***Broader details.***

Climate change and food security

- Climate Prediction: Modeling and Detection of Recent and Future Climate Change
- Observations for Long-Term Climate Monitoring
- Climate Change impacts on biodiversity conservation and natural resource management
- Role of Renewable Energy Sources in a Warming World
- Climate Change and Energy: Policies, Planning & Management
- Climate Change and Sustainable Development
- Urbanization and flood risk implications in coastal and other areas
- Green growth and policy challenges in coastal zone management
- ICT, climate risk communication and public awareness framing Government and non-government sector experiences with respect to climate change – Civil society and NGO experiences – Industry and business sector experiences with climate change including finance
- International diplomacy, climate change and adaptation finance
- Dealing with climate change: poverty and gender issues
- Climate change: Impacts on water and sanitation and health in the developing world
- Indigenous knowledge systems and climate change adaptation
- Climate Change and Technology
- Climate change and Green initiatives & products

Impact of urbanization on climate change in the form of Municipal solid waste, traffic emissions and related fossil fuel related emissions;

Recurrence of droughts due to climate change and their sustainable development,

Climate Change and Atmosphere

Climate Change and Agriculture and Food Issues

Climate Change and Policy & Social Systems.

Climate Change and Built Environment.

Development of local standards and codes for sustainable development.

Abstracts pertaining to the above themes are accepted. All abstracts not exceeding 500 words (in duplicate) in Times New Roman font with 12” size



should reach the Dr. P.S.Navaraj, Organizing Secretary, ICCCSO 2017, Conference Secretariat, Annai Fathima College of Arts and Science (Madurai Kamaraj University), Madurai, India on or before **Jan.5, 2017**. Abstracts will be reviewed by the Scientific Review Committee on the basis of Scope / Theme of ICCCSO-2017 and will be classified as ORAL or POSTER presentation. *Acceptance will be communicated by 25 Jan.2017.*

Authors will have to submit full manuscript of the paper(s) (with original figures, if any) to the Conference Secretariat by **MARCH 30, 2017**. Necessary instructions regarding preparation of the manuscript(s) will be sent along with the acceptance and author(s) are requested to submit the final text in electronic form (CD).

Further details can be heard from

**Dr. P.S. Navaraj**  
Organizing Secretary  
E-mail:navaraj2k1@yahoo.co.uk,  
[navaraj2007@gmail.com](mailto:navaraj2007@gmail.com)

## About the Venue – Madurai: “The Temple City” of India



**Aerial View (part only) of Meenakshi Amman Temple, Madurai.**

Madurai city is known as the Temple city of India and it is the second biggest city next to Chennai in Tamil Nadu. It was also the capital of earlier Pandyan Kingdom and the seat of earlier Tamil Sangam. **Meenakshi Amman Temple is situated at the centre of the city and it is considered to be one of the oldest and biggest Temple in India.** The city is well connected by air, rail and road. The city is flooded with number of higher learning Institutions and tourists from all over the world. Madurai Airport has been updated very recently (inaugurated on 12<sup>th</sup> September 2010) with ultra-modern facility and upgraded as an International Airport. Apart from Meenakshi Temple, the following are very attractive tourist centers in around Madurai:

- *Thirumalai Naicker Mahal in the close vicinity of the Meenakahi Amman Temple, Rameswaram is world famous tourist centre in south India and is about 120 km Kodaikanal situated at 4000 m (amsl) has a beautiful scenario and attractive freshwater natural lake and is about 120 km*

- *Thekkadi is a famous wild life sanctuary situated in Kerala border and is about 140 km away. One can have a look of wild animals (Elephant, Deer and Tiger) while sailing in the boat at Mullai Periar dam.*
- *Munnar Green Valley a beautiful scenic place situated in Kerala is about 200 Km from Madurai*
- *Palani Subramanya temple is about 120 km away from Madurai*
- *SriRanganatha Swamy Temple at SriRangam (Trichy) is about 160 km*
- *Kanyakumari is the land end of peninsular India and one can see the sun rise and sun set as if it is rising from Indian Ocean and setting in to the sea. Vivekananda Rock memorial and Saint Thiruvalluvar Statue (133 feet height) are situated inside the sea and it is about 240 km away from Madurai.*
- *The Niagara of India, Courtallam is about 150 kms from Madurai.*



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 in Collaboration with M.T.C Malaysia

## **Vision**

To serve the society and the student community by providing an education system which can meet the demands of tomorrow's world and to create an aspiration for modern education among rural community and inspire them to match with the global standard.

## **Mission**

- To play an important role in building the social infra-structure with the spirit of modern education values.

- To reach beyond the barriers of society with the spirit of Freedom, Justice and Tolerance.
- To develop the spirit of a common- man through Discipline, Dedication and Divination.
- To develop the spirit of leadership of national fervor and the spirit of ‘Universal scholar’ by imparting Value Education

### **Pre-Registration Form for ICCCS-2017**

## **INTERNATIONAL CONFERENCE ON CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT**

**(ICCCS-2017)**

### ***DELEGATE INFORMATION***

<b>Title</b> (Prof/Dr/Mr/Mrs)	<b>Given name</b> (for badge)	
Family Name		
<b>Position</b>		
<b>Address</b> (with PIN)		
<b>Telephone (Off)</b>		<b>(Res)</b>
<b>FAX</b>		
<b>e-mail</b>		
<b>Name(s) of accompanying person(s), if any</b>		
Are you (i) contributing a paper	--	YES / No
(ii) attending ICCCS 2017	--	YES / No

### **REGISTRATION FEE**

Note: All Foreign participants have to pay the Registration Fee in US dollars only. Registration fee should be paid through DD drawn in favor of ICCCS-2017, Annai Fathima College of Arts and Science payable at Tirumangalam, Madurai and sent to Dr.P.S.Navaraj, Conference Secretariat, ICCCS-2017, Annai Fathima College of Arts and Science, Tirumangalam, Madurai -625 706

Delegate	Rs.4000/- or US \$300/- *
Research Scholar	Rs.2000/- or US \$150/- *
Student	Rs.1000/- or US \$100/- #
Accompanying Person	Rs.1000/- or US \$ 100/- (for each person) @

\* Includes registration material, working lunch, conference dinner, tea..

# Only registration material (proceedings), working lunch, conf. dinner, tea.

@ Only working lunch, conf. dinner, tea.

**Mail to:**

**Conference Secretariat,  
ICCCSD-2017,  
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Madurai-625 706, Tamil Nadu, India.  
Ph: +91-9442648168**

**E-mail : navaraj2k1@yahoo.co.uk , navaraj2007@gmail.com**

## **ACCOMMODATION**

The participant(s) will be accommodated in hotels on payment basis. Delegates are requested to send their accommodation requirements well in advance. The tariff of the various hotels located in Madurai is given below.

## **REQUEST FOR HOTEL ACCOMMODATION**

**ICCCSD-2017, Madurai  
Aug. 23-25, 2017**

1. Name (in BLOCK Letters)

2. Contact Address

Phone

Fax

e-mail

3. Passport Details (for foreign delegates)

3. Accommodation required

Single / Double

4. Category

<b><i>Hotel Category</i></b>	<b><i>Tariff (Rs.) per day</i></b>		<b><i>Your choice</i></b>	
	Single	Double	Single	Double
‘A’ (Luxury AC)	5000	7500		
‘B’ (Delux AC)	3000	4000		
‘C’ (AC)	2500	3000		
‘D’ (Non AC)	2000	2500		
‘E’ (Non AC)	1000	1500		
‘F’ (for students; Non AC)	750	1200		

5. Deposit for accommodation enclosed: YES / No in the form of a DD drawn in favor of **ICCCSD-2017**, Annai Fathima College of Arts and Science and payable at Madurai.

**Note:** Hotel reservations cannot be confirmed until we have received your deposit.

Your request in the above format along with the DD in favour of **ICCCSD-2017**, Annai Fathima College of Arts and Science , Tirumangalam , Madurai should reach the address mentioned below:

**Dr. P.S. Navaraj**  
Organizing Secretary (ICCCSD 2017),  
Annai Fathima College of Arts and Science,  
Tirumangalam, Madurai, India  
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### ***IMPORTANT DATES***

<b>Sending the Abstract</b>	<b>5.Jan.2017</b>
<b>Acceptance of the Paper</b>	<b>25.Jan.2017</b>
<b>Submission of Full paper</b>	<b>30 March 2017</b>
<b>Remitting Regn.fee</b>	<b>30 March 2017</b>
<b>Accommodation request with amount</b>	<b>30 June 2017</b>

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