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Joint Secretary : **Dr. A. JOTHIBASU**, UGC Post Doctoral Fellow

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Dr. K. Anbarasu, Assistant Professor, Dept. of Geology, PU
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Dr. P. Thangavel, Assistant Professor, Environmental Science, PU
Dr. D. Arulbalachandran, Assistant Professor, Botany, PU
Dr. S. Arivazhagan, Assistant Professor, Centre for Applied Geology, Gandhigram University

Correspondence

Prof. S. ANBAZHAGAN
Convener and Organizing Secretary ICWR 2018
Professor & Director
Centre for Geoinformatics and Planetary Studies
Periyar University, Salem – 636 011, INDIA
Email : icicwr2018@gmail.com
Tel : 91 427 2345520 ext 302
Mobile : +91 9443045889 Fax : 91 427 2345124, 2345565

Dr. A. JOTHIBASU
Joint Secretary, ICWR 2018
Centre for Geoinformatics and Planetary Studies
Periyar University, Salem – 636 011, INDIA
Mobile : +91 9940886565

International Conference

on

Impact of Climate Change on Water Resources

ICWR 2018

July 12-13, 2018



Centre for Geoinformatics and Planetary Studies
School of Physical Sciences

PERIYAR UNIVERSITY

(Re-accredited with 'A' Grade by the NAAC)

PERIYAR PALKALAI NAGAR, SALEM - 636 011, TAMIL NADU, INDIA

www.periyaruniversity.ac.in

E-mail : icicwr2018@gmail.com



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Ministry of Environment,
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Government of India



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BACKGROUND

Climate change refers to change in average weather pattern for an extended period of time in terms of decades or millions of years. Climate change is caused by various factors such as variation in solar radiation, plate movements and volcanic activities. In recent years, human intervention play major causes for ongoing climate change. The impact of climate change on water resources have been discussed in the 3rd assessment report of the Intergovernmental Panel on Climate Change (IPCC, 2000). It revealed that, rise of the global temperature affecting the hydrological cycle and both groundwater and surface water supply. Surging population, increasing industrialization and associated demands for freshwater, food and energy would be the areas of concern in the changing climate scenarios.

As the earth's temperature continues to rise, there is a significant impact on fresh water availability. Increase of temperature increases evaporation and resulting in droughts. Warmer environment, more precipitation will occur as rain rather than snow. Although more rain than snow may seem to be like a positive trend, it could mean more frequent water shortages. Variation in monsoon rainfall may be considered as a measure to examine climate variability in the context of global warming. Glaciers are considered among the most sensitive indicators of climate change. Glaciers are important source for freshwater worldwide. Variability in temperature and precipitation can strongly determine the evolution of a glacier in a particular season. People living in the catchment areas of the Himalayas face increased risk of floods as glaciers retreat followed by drought and water scarcity.

In the coming decades, it is predicted that billions of people in developing countries, face shortages of water and food as a result of climate change. Developing countries are the most vulnerable to climate change impacts because they have fewer resources to adapt. Rigorous action has to be taken to enable developing countries to adapt the effects of climate change that are happening now and will worsen in the future (UNFCCC, 2007). The IPCC (2007) has highlighted greenhouse gas emissions could raise by 25-90% by 2030 relative to 2000 and the temperature in the Earth could increase by 3°C. About 250 million people in Africa could be exposed to greater risk of water stress. Hence, it is an urgent need for assessing impact and vulnerabilities of climate change, as well as considering possible adaptation options. The conference meeting probably will help to understand the impact of climate change on water resource and learning process for planning and implementing adaptation options.

PERIYAR UNIVERSITY

Periyar University was established at Salem during 1997 by the Government of Tamil Nadu as per the provisions of the Periyar University act 1997. The University is located in the NH-47 towards Bangalore at about 7 km from Salem city. Periyar University is reaccredited with 'A' grade by the NAAC with a CGPA of 3.15 in 4 point scale. Periyar University listed as 85th rank among Indian University in the National Institutional Ranking Framework 2017. At present, the University has 8 schools comprising of 27 Departments. The departments offer 28 P.G. programmes and 27 research programmes. Besides the departments, the University has established various centres. Currently, University has 101 Arts and Science affiliated colleges from Salem, Namakkal, Dharmapuri and Krishnagiri districts, which caters the educational needs of students from rural areas. Periyar University Post Graduate Extension Centre was established at Dharmapuri in the year 2012.

CENTRE FOR GEOINFORMATICS AND PLANETARY STUDIES

Centre for Geoinformatics and Planetary Studies (CGIPS) was established in Periyar University during March 2010 and formally inaugurated by former President Dr. A.P.J. Abdul Kalam. The centre mainly focused on teaching, research, training and extension activities in the fields of Remote Sensing, GIS, groundwater exploration, sustainable water resource development and management, natural disaster mapping and mitigation, climate change, hyperspectral remote sensing and planetary remote sensing studies. The centre currently handling nearly ₹1 crore worth of sponsored research projects on hyperspectral remote sensing, Lunar and Martian studies through DST and ISRO. The centre has collaboration with ISRO satellite centre for supply of lunar soil simulant for establishing Lunar Terrain Testing facilities at Bangalore. It is one of the ISRO - IIRS (Dehradun) recognized centres for coordinating Remote Sensing and GIS outreach programmes for the students and scholars.

SALEM CITY

Salem city is the capital of Salem District in the state of Tamil Nadu located in southern part of India. Salem is well connected by rail and road networks. Salem is the fourth largest city in Tamil Nadu by population. Salem is also known for Mangoes and Steels. Salem is a major textile center with more than 125 spinning mills, weaving and garment units. The other important industries are production of silver anklets and sago factories. There are several attractions in and around Salem. Yercaud is a hill station situated in the Shervoroy Hills, covered by coffee plantations and thickly forested slopes. Salem is a geologist's paradise surrounded by hills and the landscape covers old Precambrian rock types, granites, magnesite, bauxite and iron ore deposits. Salem has a tropical climate with average temperature of 37°C during July.

ABSTRACT AND FULL PAPER SUBMISSION

Abstracts are invited in MS word, Bookman Old Style in 12 font size, single space in the following format: Title, authors name, affiliation and e-mail ID. Key words may be included not more than five words. The abstract should be submitted to the conference email : icicwr2018@gmail.com. Abstract will be reviewed for acceptance and intimated on or before the last date. A separate communication will be sent for full paper submission. Accepted full papers will be published in refereed journal after review.

Abstract submission : On or before 15th May 2018

Intimation of acceptance : On or before 31st May 2018

CONFERENCE THEMES

- Geoinformatics in climate change and water management
- Impact of climate change on rivers, glacier and riverine environment
- Impact of climate change on urban water resource and supply
- Sustainable groundwater development
- Impact of climate change on water quality
- Adaptation measures for water management
- River Rejuvenation practices
- Impact of climate change on groundwater aquifers
- Impact of climate change on coastal aquifers
- Climate change awareness to adoption
- Impact of climate change on hydrological cycle
- Impact of human activities on water resource
- Climate change on water: Social issues, framework and policies
- Corporate response to climate change

REGISTRATION

The duly filled registration form may be sent along with the registration fee. The payment can be done through Demand Draft (DD) drawn in the name of 'Convener, ICWR 2018' payable at Salem. Payment through online Bank Transfer (RTGS/NEFT/IMPS) can also be done to the following account. Convener, ICWR 2018, Canara Bank, Salem Periyar Univesity Branch, India, A/c. No : 8450101006450, IFSC code : CNRB0008450, MICR CODE : 636015024. Soft copy of online payment receipt sent to the email : icicwr2018@gmail.com for confirmation. Last date for registration is 13th June 2018

REGISTRATION FEES

Delegates SAARC countries	: US \$100	Scholars from SAARC	: US \$80	Accompanying Member India	: ₹ 1500
Delegates other than SAARC	: US \$150	Indian delegates	: ₹ 3000	Accompanying Member Foreign	: US \$50
Foreign scholars & students	: US \$100	Indian scholars & students	: ₹ 2000		

Registration fee includes conference materials, working lunch and refreshment.

ACCOMMODATION

Limited accommodation may be arranged in the University guest house on payment basis on prior request. Similarly limited accommodation can be provided for the scholars and students in the University hostel with payment. There are good hotels in the city within 6-7 km away from the University campus. Most of the hotels are close to transport network. Participants are requested to make their own arrangement in booking hotels and few hotel names are listed below for your reference. However, assistance will be provided for booking hotels based on request.

Category I	: Radisson, Sivaraj holiday Inn, Grand Estancia, Chennies, CJ Pallazzoio
Category II	: Sing Saral, Ashwa Park, Shrie Shaanth, Devi Tower
Category III	: City view, Hotel Salem Castle
Category IV	: Hotel Kirthika Palace, Hotel Pearls, Hotel Nalandha

USEFUL INFORMATION

Nearest Airport	: Coimbatore(160 km), Bangalore (200 km), Trichy (142 km) and Chennai (340 km)
Nearest Railway station	: Salem Junction
Website	: www.periyaruniversity.ac.in

POST CONFERENCE TOUR

A one day post conference tour is planned on 14th July 2018 for the participants who are interested in visiting surrounding tourist spot. Prior registration and payment is required for the confirmation. The last date for registration is 13th June 2018. If minimum number of participants is not turned out, the tour will be cancelled. Cancellation is possible 15 days prior to the conference.

1. Visiting Yercaud hill station Rs.1200/- for domestic and US \$60 for foreign delegates
2. Temple visit - Salem (Sugavaneshwar temple), Namakkal (Anjaneyar temple) and Tharamangalam (Kailasanathar temple) Rs.1200/- for domestic and US \$60 for foreign delegates. The payment inclusive for travel, breakfast, working lunch and refreshment



Yercaud Hills



Tharamangalam Temple



Namakkal Anjaneyar Temple



Hogenakkal Water Falls



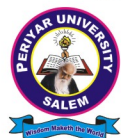
Kottai Mariamman Temple

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REGISTRATION FORM

Name :

Designation :

Organization :

Address :

Tel/Mobile :

E.mail :

Presenting paper : Yes/No

The title of the Abstract :

Registration fee :

DD.No.& Date :

Direct payment details :

Accommodation (No. of days):

(University Guest House Rs.500/- ☐ Hostel Rs.250/- ☐ per day

Date:

Place:

Signature

(Photocopy of Registration form may also be used)

ADDRESS FOR COMMUNICATION

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