

## PROGRAM REPORT – NATIONAL SEMINAR

Two-day National SEMINAR ON “CONTEMPORARY TRENDS AND APPLICATIONS IN GEOSCIENCES” between 16.02.18 and 17.02.18, had been organized by Department of Geology.

The program was inaugurated by Hon.Vice-Chancellor, Dr.K.Mohamed Basheer who emphasized applications of geoscience to the society for the sustainable development. Dr.A.B.Anitha, Executive Director, CWRDM, Kozhikkode was the chief guest of this function. Totally six technical sessions were arranged and about 85 participants have been participated in this seminar.

In the first technical session, Dr.A.B.Anitha, Executive Director, CWRDM was delivered presentation on “Water Resources development and Management in Kerala”. In the presentation, She has pointed out, Water is a prime natural resource, a basic human need, and a precious national asset (National Water Policy, 1987). The State of Kerala, by virtue of its location, is well endowed with water resources. It faces, however, serious problems in terms of availability, quantity, and quality of water available for use. Water quality deterioration aggravates the problem of availability. A prudent management action plan is called for to tackle the problems and to initiate remedial measures.

A water-rich state like Kerala is paradoxically enough, confronted with water shortage in some parts of the state during the dry months of the year. The terrain condition of the state with hard rock and steeply sloping land imposes certain restrictions on ground water recharge and soil water, and there is little or no control on incoming rainfall. Therefore, judicious management practice of land cover and water structures is needed to overcome the problems.

Second technical session was taken by Dr.V.K.Brijesh, Assistant Professor, MES College, Ponnani who delivered “Its all about ‘where’, How and ‘When’ ” and this session was very interesting for the students who could understand the various advanced applications in geoscience more particular in Remote Sensing & GIS.

Third session was headed by Dr.P.Pratheesh, Assistant Professor, CUK, Kasargod who delivered a talk on “Shear Zones : A time Marker”. In his talk he mentioned about A shear zone is a zone in which strain is clearly higher than in the wall rock, and whose margins are defined by a change in strain, typically seen by rotation of pre-existing markers or formation of a new fabric. He also discussed about Foliation, Metamorphism, Mineralization, Subduction, Granite Deformation, Craton, Terrane and Granulite facies.

The fourth session was handled by Dr.Veena Nair (Geologist, PWD, Tamilnadu) who delivered lecture on “Late Holocene Paleoclimate Records : A multi proxy study”. In her presentation she mentioned A comprehensive database of paleoclimate records is needed to place recent warming into the longer-term context of natural climate variability. Also present a global compilation of quality-controlled, published, temperature-sensitive proxy records extending back 12,000 years through the Holocene.

The multi-proxy database comprises paleotemperature time series based on ecological assemblages, as well as biophysical and geochemical indicators that reflect mean annual or seasonal temperatures, as encoded in the database.

In the fifth technical session, Dr.P.Manjula, Technical Officer, Isotope Hydrology Division, CWRDM, Calicut who presented a talk on “Isotope studies in Hydrogeology”

Last technical session was headed by Dr.Linto Alappat, Assistant Professor & Head, Dept. of Geology and Environmental Sciences, Christ College, Thrissur who presented on “Quaternary Geology & Dating Methods” and this session were concluded after having cleared clarifications from the participants.

Finally, program report was presented in the valedictory session by convenor. Valedictory function was inaugurated by the Hon. Pro-Vice-chancellor and the seminar were concluded.

#### Instructions to participants

The national seminar institute a platform for scientific pondering on multidisciplinary areas of geosciences and its applications. There will be a key note address, Invited lectures and panel discussions are followed. Experienced resource persons from Research Institutes, Academy and Public Works Department will be delivering the lectures.

The Registration fee for the two days seminar is Rs.300/- for students and Rs.500/- for others. The amount can be remitted at the registration counter arranged at the venue. Although the registration form has to reach the convener on or before the stipulated date. The registered participant will have access to seminar materials, entry to all scientific sessions, lunch and High tea. The participants have to meet expenses in connection with their stay. The organizing committee will hold responsibility of arranging accomodation for the registered participants upon request. For any clarification, the convener may be contacted.

Correspondance

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Convener &

Assistant Professor & Coordinator

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#### NATIONAL SEMINAR

### CONTEMPORARY TRENDS AND APPLICATIONS IN GEOSCIENCES 16 – 17 February 2018

Department of Geology, University of Calicut

#### ORGANIZING COMMITTEE

Patron: Dr.K.Mohammed Basheer  
Hon'ble Vice Chancellor, University of Calicut

Co-Patron: Prof.PMohan  
Pro Vice Chancellor, University of Calicut

Convener:  
Dr.Adarsh.P  
Coordinator, Department of Geology

Co-Convener:  
Mr.Rajeesh.U  
Technical Officer, Department of Geology

Committee Members:  
Mr.Shahin.K.S  
Lecturer, Department of Geology  
Ms.Nasila.M  
Lecturer, Department of Geology  
Mrs.Shasna.M.R  
Lecturer, Department of Geology



UNIVERSITY OF CALICUT  
DEPARTMENT OF GEOLOGY

NATIONAL SEMINAR

on  
CONTEMPORARY TRENDS AND APPLICATIONS IN GEOSCIENCES  
16 – 17 February 2018

Organized by

Department of Geology  
University of Calicut

Venue: EMS Seminar Complex, University of Calicut



Golden Jubilee Year (2017-2018)

## INTRODUCTION

*In the modern world, with the new knowledge and tools that create new knowledge, geosciences do not lag behind any field of science. Yet in the commoner's perception, until a natural disaster like an earthquake, or a tsunami-genic earthquake strikes a province of unlucky thousands or hundred thousands, role of geosciences and geologist as a good knowledge-samaritan goes unnoticed. Now, with the impending danger and risk of climate change, the scientific contributions by geoscientists are more heeded than ever before. Landslides, Land subsidence, ground water scarcity, contamination of aquifers, fluctuations of water table and consequences of alteration of earth surface environment have brought to light another facet of geological knowledge contributing to the welfare of citizens.*

*Beauty of Geology is that it is a hybrid science that from the very early days had ungrudgingly borrowed ideas, hypothesis, theories, tools and technologies from the physical sciences and natural sciences. Every new paradigm or paradigm change in these fields has had its profound influence in Geology. Such tools and technology are made use of in the study of earth processes, materials and history. In the 21st century, the nations have come to the realization that products and services from the field of Applied Geology are primary for the sustenance of civilization as we today and for the quality of life attached to it.*

## Resource Persons

Experienced resource persons from Academy and Tamilnadu PWD Department working on the theme of the seminar will be delivering lectures

### PROGRAMME

16 February 2018 (Friday)

09.30-10.30 AM : Registration

10.30-11.30 : Inauguration

Tea Break

11.45 AM – 1.00 PM : Keynote Address

(Session-I) Dr.A.B. Anitha,  
Executive Director, CWRDM, Calicut

“Water Resources Development  
&  
Management in Kerala

### LUNCH

2.00 Pm – 3.30 Pm : Dr.VK.Brijesh

(Session – II) Department of Geology

MES College, Ponnani

“Its all about ‘Where’, ‘How’ and ‘When’

Tea Break

3.45 Pm – 5.00Pm : Dr.Pruthaesh.P

(Session – II) : Department of Geology,

Central University of Kerala

“Shear zones: A time Marker”

17 February 2018 (Saturday)

10.00 AM – 11.30 PM : Dr.Veena Nair,

(Session-IV) Geologist, PWD, Tamilnadu

“Late Holocene Paleoclimate Records: A multi proxy study

TEA

11.45 AM – 1.00 PM : Dr.P.Manjula

(Session-V) Technical Officer, CWRDM, Calicut

“Isotope studies in Hydrogeology”

### LUNCH

2.00 Pm – 3.30 Pm : Dr.Litino Alappat

(Session – VI) Head, Department of Geology

Christ College, Irinjakkuda, Thrissur

“Quaternary Geology & Dating Methods”

Tea Break

3.45 Pm – 4.30Pm : Valedictory

## NATIONAL SEMINAR

ON

## CONTEMPORARY TRENDS AND APPLICATIONS IN GEOSCIENCES

16 – 17 February 2018

### REGISTRATION FORM

Name: Dr./Prof/Mr./Ms./Mrs.....

Designation:.....

Organization with Address:

Phone:.....

E-mail:.....

Registration Fee Rs.....

Sponsor/Donation/Advertisement Rs.....

Hotel Accomodation Required: Yes/No.....

(If required, please add Rs.500/- as an

advance)D.D./Local Cheque No.....

Signature







