

MMK & SDM MAHILA MAHAVIDYALAYA KRISHNAMURTHY PURAM, MYSORE

Department of Physics

REPORT ON

One Day Workshop on

Role of Physics in Earth Science

2018

DATE: 20.12.2018

TIME: 9:30 AM Onwards

INUGAURATION: Prof. Sainath Malligemadu, Principal

PROGRAM COORDINATOR: Smt. Bharathi, Head of Department, Dept. of Physics

VENUE: College Auditorium, MMK & SDM MMV, Mysuru

TOTAL NO. OF PARTICIPANTS: 107 participants

Registration Fees Rs. 200/-(Two Hundred) for a Teacher and Two Students

Spot Registration is also allowed between 9am and 10am

Keynote Address:

Prof. P. Venkataramaiah, Former Vice-Chancellor, Kuvempu University

Resource Persons:

1. Prof. L. Mahesh Bilwa, Retired Professor, Department of studies in Earth Science,

ManasaGangothri, University of Mysore, Mysuru.

2. Dr. Basavaraj Hatti,
Assistant Professor,
Department of Applied Geology,
Vijayanagara Sri Krishnadevaraya University, Ballari

3. Sri. Alec Lobo, Exploration Geologist National and International Level

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Organising Chair

Prof. Sainath Malligemadu Principal, MMK & SDM MMV, Mysore Email: principal@sdmmmkmysore.in

Convener of the Workshop

Smt. N. Bharathi
Associate Prof and Head, Department of Physics,
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Co- Convener

Ms. K.M. Chandini Assistant Professor of Physics Phone:8904786188 Email: chandinikm20@gmail.com

Technical Session-in-charge

Ms. N.S. Namitha Assistant Professor of Physics Phone:8296434106 Email: namith.ns@sdmmmkmysore.in

Smt. B.M. Pavithra Assistant Professor of Physics, Phone: 9731101771

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Shri Dharmasthala Manjunatheshwara Mahila Maha Vidyalaya

Krishnamurthypuram, Mysuru

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President: Padma Vibhushana Poojya Dr. D. Veerendra Heggade

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"Empowerment of Women to Build Enlightened Society 35

One Day State level Workshop

"ROLE OF" PHYSICS IN EARTH SCIENCE"



Thursday, 20th December 2018

Organized by Department of Physics & IQAC

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ONE DAY STATE LEVEL WORKSHOP ROLE OF PHYSICS IN EARTH SCIENCE



A one day State Level Workshop on "Role of Physics in Earth Science" was organized by the Department of Physics of MMK & SDM MahilaMaha Vidyalaya, Krishna Murthypuram, Mysore on 20th December 2018. The work shop was inaugurated by Prof. P. Venkataramaiah, former Vice Chancellor, Kuvempu University. Speaking after inauguration, he said that Physics plays an important role in the understanding of all aspects of Earth Science. He gave examples of Seismic activities, Tectonic movements, Meteorological studies, study of Earth's Ocean, Ground water exploration and also geophysical methods to study Earth's Interior. Further he pointed out that Natural hazards like Earth quakes, Volcanoes, Sunami like sea rises can be predicted with the help of appropriate sensors that are developed in Physics.

Principal Prof. Sainath Malligemadu in his presidential address said that MMK & SDM College is making pioneer efforts to popularize basic Sciences among the colleges in Karnataka. This workshop is one such important initiative which brings out the synergy of Physics and Earth Science for the benefit of Society.

Earlier Prof. N. Bharathi HOD of Physics and Convener of the Workshop welcomed the delegates and outlined the theme of the workshop. Smt. G.R. Sumithra, HOD of Electronics and also IOAC Coordinator introduced Prof.P.Venkataramaiah to the gathering. The programme was presided by the Principal Prof. Sainath Malligemadu. Dr. L. Mahesh Bilwa, former Professor, Department of Earth Science, ManasaGangothri, University of Mysore, Mysuru was the Guest of honour and Resource Person. The other Resource Persons were Dr. Basavaraj Hatti, Assistant Professor, Department of Applied Geology, Vijayanagara Sri Krishnadevaraya University, Ballari and Sri. Alec Lobo, Exploration Geologist, National and Intyernational Level. Vote of Thanks was proposed by Miss. K.M. Chandini, Assistant Professor in the Department of Physics and the programme was compered by Miss. N.S. Namitha. Assistant professor, Department of Physics.

There were Three Technical Sessions.

First Technical session was by Prof. L. Mahesh Bilwa, former Professor, Department of Earth Science, ManasaGangothri, University of Mysore, Mysuru on the topic Geosciences and its scope for Modern World. He said that Earth Science is organized study of its dynamics, composition, and related systems. The subject is broadly concerned with the origin and operation of earth features and events, and the integrated sequence of events since the first record of them in the rocks. He explained how basic fabric of life too Earth evolves around environmental unityand how everything is connected no matter wherever we are on Earth. The air, the water, the land, people, fanna, flora, Earth's solar neighbordood and all activities affect each and every other thing. From severe droughts around the world from the western US to China, and water abundance in the eastern US, Canada, and Russia, to human activities, climate change, species depletion, weather extremes, crop growth and health, everything connects.

He spoke on how weare depending on minerals and rocks directly or indirectly in all walks of life and in modern age with examples. . He described Role of Geophysics in Earth's dynamicactivities like earth quake studies (Seismology) and the specific role geoscientists can play in disaster risk reduction and how their work should fit in with the roles played by other experts for any given community.

Second Technical talk was by Dr. Basavaraj Hatti, Assistant Professor, the Department of Applied Geology Vijayanagara Sri Krishnadevaraya University, Ballari on the topic Geophysical Methods of Oil and gas Exploration and Career opportunity in Geophysics.

He said that as a geophysicist, one can study the physical aspects of the earth using a range of methods, including gravity, magnetic, electrical and seismic and air Il play a vital role in the oil and gas industries by creating a picture of what lies below the earth's surface. One can do this by controlling the quality of the seismic data

He gave guide lines regarding courses offered in geophysics by IITS and other reputed institutions in India and abroad.

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Technical talk was by Mr. Alee Lobo, Exploration Geologist on the topic Geo-physical ration of ground water and minerals. He said thatGroundwater is an invisible natural exe. It is available in different proportions, in various rock types and at various depths, on rface layer of the earth. In the historical past, when there is no visible flow of water along yers, people used to dig small pits, in the river alluvium, wait and collect the groundwater gus through seepage and used it for their drinking purposes and for meeting the domestic. Similarly, to the people of mountainous regions, natural springs provided the sources of supply. Springs are the outcome of seepage from any groundwater system, in hilly terrains limestone regions. More than 60 percent of the global population thrives by using only the dowater resources. He told that the groundwater which was existing at shallow depths in the wells, has gone deep due to over-exploitation and Exploring these water sources is a enging task to geo-scientists.

The programme was attended by 87 students and 20 faculty members.

Back from the delegates were received by providing them with feedback forms.

Hand Maharardyalaya Third Technical talk was by Mr. Alec Lobo, Exploration Geologist on the topic Geo-physical exploration of ground water and minerals. He said that Groundwater is an invisible natural resource. It is available in different proportions, in various rock types and at various depths, on the surface layer of the earth. In the historical past, when there is no visible flow of water along the rivers, people used to dig small pits, in the river alluvium, wait and collect the groundwater coming through seepage and used it for their drinking purposes and for meeting the domestic needs. Similarly, to the people of mountainous regions, natural springs provided the sources of water supply. Springs are the outcome of seepage from any groundwater system, in hilly terrains or in limestone regions. More than 60 percent of the global population thrives by using only the groundwater resources. He told that the groundwater which was existing at shallow depths in the open wells, has gone deep due to over-exploitation and Exploring these water sources is a challenging task to geo-scientists.

Feed back from the delegates were received by providing them with feedback forms.