

Resume



DR. Venu G. Nair (M.Sc., M.Tech., Ph.D., DFSE)

Meteorologist

Centre for Earth Research and Environment Management (**CEREM**)

(A Non-Governmental Scientific Research Centre – UID KL/2017/0152374)

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Professional Experience:

33 years of Research & 10 years of Teaching Experience in Meteorology and Climate Sciences at University level.

Research Interests:

- Synoptic Meteorology
- Cloud Physics & Atmospheric Electricity
- Applied Meteorology
- Fire Meteorology

Teaching Subjects Offered in Meteorology:

- Synoptic Meteorology
- Tropical Meteorology
- Cloud Physics & Atmospheric Electricity
- Air-Sea Interaction
- Meteorological Analysis (Lab Course)

Education:

- ❖ **Post Doctoral Research** (*Applied Meteorology*), Centre for Earth Research and Environment Management (CEREM), Kochi – 36, Kerala, INDIA.
- ❖ **Post Doctoral Research** (*Monsoon Meteorology*), Cochin University of Science & Technology, Kochi – 22, Kerala, INDIA.
- ❖ **Ph.D** (*Mountain Meteorology*), Cochin University of Science & Technology, Kochi – 22, Kerala, INDIA.
- ❖ **M.Tech** (*Atmospheric Science*), Cochin University of Science & Technology, Kochi – 22, Kerala, INDIA.
- ❖ **M.Sc** (*Meteorology*), Andhra University, Waltair, Andhra Pradesh, INDIA.
- ❖ **B.Sc** (*Physics*), Maharaja's College, Ernakulam, Mahatma Gandhi University.
- ❖ **P.G Diploma** (*Fire Safety Engg.*), Department of Technical Education, Govt. of Kerala.

Topic of Research for Ph.D :

Impact of Western Ghats Orography on the Weather and Climate Over Southern Peninsular India – A Mesoscale Modelling study.

Personal Details:

- ★ Nationality - Indian
- ★ Date of Birth – 20.05.1969
- ★ Residential Address – ‘Karthika’, GTWRA-9, Thrikkannapuram Temple Road, Edappally P.O, Kochi, Kerala, INDIA. PIN- 682024, mob: 944 7474 779
- ★ Marital Status - Married

Recent Professional Initiatives:

- ♣ Worked as the Co – Principal Investigator of the project sponsored by Kerala State Council for Science, Technology & Environment entitled “***Impacts of Changing Climate and Rising Sea Level: Challenges of Mitigation and Adaptation in Kerala***” in CEREM, Kochi -36 since 2018 August onwards till date.
- ♣ Visiting Faculty of Meteorology for PG & UG students at Kerala University of Fisheries and Ocean Sciences, Panangad, Kochi.
- ♣ Worked as a Co-Organizer from CEREM in the Joint Research Initiative with French Research Agency CODATU (Cooperation for Urban Mobility in the Developing World) and **Kochi Metro Rail Limited** in the project theme of “***Non-Motorized Urban Mobility Planning Associated with Kochi Metro for the intention to reduce the Green House Gas Emissions,2017***”.
- ♣ Worked as a co-coordinator from CEREM in the Joint Research Programme with **Nansen Environmental Research Centre, Kochi** in the UNEP-APFED funded Project entitled “ ***Regional Climate Change Issues and Adaptation Measures for Low Lying Regions in the Context of Future Sea Level Rise***”, 2016.

Positions Held:

- ♦ **Meteorologist** [Atmospheric Science Division] **(2016 onwards till date)**, Centre for Earth Research and Environment Management (CEREM), Kochi – 36, Kerala, INDIA.
- ♦ **Adjunct Faculty of Meteorology (2017-2019)**, Department of Aquaculture, *Kerala University of Science & Technology*, Panangad, Kochi, Kerala, INDIA.
- ♦ **Assistant Professor of Meteorology (Adhoc) (2010-2016)**, Department of Atmospheric Sciences, *Cochin University of Science & Technology*, Kochi – 16, Kerala, INDIA.
- ♦ **Research Associate (2007-2010)**, Department of Atmospheric Sciences, *Cochin University of Science & Technology*, Kochi – 16, Kerala, INDIA.

- ◆ **Senior Research Fellow (1998-2007)**, Department of Atmospheric Sciences, *Cochin University of Science & Technology*, Kochi – 16, Kerala, INDIA.
- ◆ **Fire Officer (Trainee) (1996-1998)**, *Cochin Port Trust*, Wellington Island, Kochi – 09, Kerala, INDIA.
- ◆ **Graduate Teacher in Physics (1994-1996)**, *Centre for Learning Advanced Skills and Studies*, Kochi – 41, Kerala, INDIA.
- ◆ **Project Fellow M.Tech., (1993-1994)**, *Ocean Science Group, Naval Physical and Oceanographic Laboratory*, DRDO, Kakkanadu, Kochi – 21, Kerala, INDIA.

Recognitions:

Bharath Sevak Samaj Award (2023), Given for “Self dedicated service in Science which foster National Rejuvenation and Social Development Department” by Bharath Sevak Samaj, National Development Agency, Established in 1952 by Planning Commission, Govt. of India, New Delhi, INDIA.

Best Participant Prize (2007), 3rd SERC school in Aviation Meteorology conducted by Department of Science & Technology, Govt.of India at Air Force Administrative College, Coimbatore, INDIA.

Dr. D.N.Desai Gold Medal (1991), Received in the 63rd Convocation of Andhra University for getting First Rank in M. Sc (Meteorology), Visakhapatnam, INDIA.

Indian Meteorological Society Prize (Vishakapatnam Chapter, 1991), For getting highest mark in M.Sc Meteorology from Andhra University, Visakhapatnam, INDIA.

Summer Research Fellowship (1991), Jawaharlal Nehru Centre for Advanced Scientific Research, Indian Institute of Science, Bangalore, INDIA.

Membership in Scientific/ Academic Bodies:

- ♣ **Executive Member** of “Centre for Earth Research and Environment Management (CEREM)”, a Non-Governmental Research Centre, involved in the study of Earth and Atmospheric Sciences and Environmental Management, Kochi-36.
- ♣ **Life Member** of “India Meteorological Society (IMS)” Cochin Chapter and was Treasurer for the year 2014-2016.
- ♣ **Student Member** of “The Institution of Fire Engineers”, United Kingdom, 1997.

Invited Talks Given: (49)

2024 : Delivered an **Invited Talk** on “*Climate Change in Kerala: The Urgent Need for Sustainable Practices and Swatchatha*” for the officers of Customs organized by Central Excise & Customs, Ernakulam Training Office, Kaloor as part of their training programme on 1st October 2024. (49)

- 2024: Delivered an **Invited Talk** on “*Land Restoration, Desertification, and Drought Resilience:*” as part of the **World Environment Day** celebrations at Morning Star College for Women, Agamali on 5th June 2024. (48)
- 2024 : Delivered an **Invited Talk** in connection with the World Environment Day on the topic “*Land Restoration, Desertification, and Drought Resilience:*” for students at St. Joseph School , Angamali on 5th June 2024. (47)
- 2024 : Delivered an **Invited Talk** on “*The Southwest Monsoon - A Vanishing Memory:*” for Naval Officers of India, Malaysia, & Khasakhisthaan at NANACEN Environmental Research Centre , Kochi on 29th May 2024. (46)
- 2024 : Delivered an **Invited Talk** on “*Bio Meteorology: Impact of Environment on Human Health*” for students of Rajagiri College, Kalamasserry at college auditorium , Kochi on 10th January 2024. (45)
- 2023 : Delivered an **Invited Talk** on “*Global Warming Climate Change*” for members of YMCA, Ernakulam Unit, in connection with their general body meeting at Hotel Marine INN auditorium , Kochi on 26th September 2023. (44)
- 2023 : Delivered an **Invited Talk** on “*Global Warming Climate Change*” for the participants of Arogya Bharathi Volunteers of Keralam and Tamilnadu organized by Arogya Bharathi, Keralam at Saraswathi Vidyanikethan School Auditorium , Kochi on 21st May 2023. (43)
- 2023 : Delivered an **Audio Talk** in All India Radio, Thiruvanthapuram on the subject “*Vishu and Changing Climate*” for the public in Prabhattha Bheri Programme on 8th April 2023. (42)
- 2023 : Delivered an **Invited Talk** on “*Air is our Birth Right- The Scar given to our Earth by ourself*” for the public in the context of Brahmapuram Fire Out Break organized by Bharatheeya Janatha Party Environment Cell, Kochi at BTH auditorium , Kochi on 27th March 2023. (41)
- 2023 : Delivered an online **Invited Talk** on “*Global Warming Climate Change*” for the Students of Sree Narayana Engineering College, Kolencherry, Kochi at BTH auditorium , Kochi on 23rd March 2023. (40)
- 2023 : Delivered an **Invited Talk** on “*How We are Polluting our Atmosphere*” for the public in the context of Brahmapuram Fire Out Break organized by Swadeshi Science Movement, Kochi at BTH auditorium , Kochi on 18th March 2023. (39)
- 2023 : Delivered an **Invited Talk** on “*Physics of Monsoon*” for the cadets of Indian Navy organized by NANACEN Environmental research Centre, Kochi as part of their Institutional Visit programme on 3rd February 2023. (38)
- 2023 : Delivered an **Invited Talk** on “*Global Warming A Retrospective*” for the students cadets of Customs organized by Central Excise & Customs, Ernakulam Training Office, Kaloor as part of their training programme on 14th January 2023. (37)

- 2022 : Delivered an **Audio Talk** on “*Solar Storm*” as part of the Shasthralokam Programme aired by All India Radio, Thiruvananthapuram on 4th July 2022. (36)
- 2022 : Delivered an **Invited Talk** on “*Global Warming and Climate Change*” as part of the World Environment Day celebrations jointly conducted by Azhavattom Govt High School, Kozhikode and Kerala State Pollution Control Board, Kozhikode Regional Centre on 6th June 2022. (35)
- 2022 : Delivered an **Invited Talk** on “*Real Chaos of Southwest Monsoon of India*” as part of the Lecture series for School of Naval Oceanology and Meteorology, Southern Naval Command, Kochi conducted at NERCI on 25th May 2022. (34)
- 2022 : Delivered an **Invited Talk** on *Challenges in Early Warning in Weather and Climate* as part of the State level Conference ‘Watercon 2022’ conducted by Muslim Educational Society Training College, Edathala, Vidyabhasa Vikasa Kendra & Centre for Earth Research & Environment Management, at MES Aluva on 23rd March. (33)
- 2022 : Delivered an **Invited Talk** on *Ground Water Making Invisible Visible* as part of the World Water Day celebrations conducted by Department of Fine Arts, Amrita Institute of Arts & Science, Amrita Deemed University, Kochi on 22nd March. (32)
- 2020 : Delivered an **Invited Talk** on *Observation and Forecasting of Weather in a Meteorological Perspective* as part of the Science Webinar Series conducted by Department of Mathematics, Amrita Institute of Arts & Science, Amrita Deemed University, Kochi on 27th August. (31)
- 2020 : Delivered an **Invited Talk** on *Air Pollution and Climate Change- The Biggest Threat of this Century*, as part of the Science Webinar Series conducted by Kottayam Nature Society on 28th June. (31)
- 2019 : Delivered an **Invited Talk** on *Global Warming and Climate Change* as part of the Science Seminar Series conducted by Academy of Climate Change Education and Research, Kerala Agriculture University, Thrissur on 15th November. (30)
- 2019 : Delivered an **Invited Talk** on *Essentials of Science Communications to the public in the context of Global Climate Change Scenario – A Pragmatic Approach* as part of the World Wetland Day Celebrations jointly conducted by Sreenarayana College, Konni, & KCSTE, Govt. of Kerala, Thiruvananthapuram on 26th February. (29)
- 2019 : Delivered an **Invited Talk** on *Behaviour and Reasons of Climate Change and Its Impact on Wet Land Over Kerala* as part of the **World Wetland Day Celebrations** jointly conducted by St. Albert’s College, Ernakulam, and KCSTE, Govt. of Kerala, Thiruvananthapuram on 8th February. (28)
- 2018 : Delivered an **Invited Talk** on Ozone Variability as part of the **World Ozone Day Celebrations** jointly conducted by School of Environmental Studies, Mahatma

Gandhi University, Kottayam, and KCSTE, Govt. of Kerala, Thiruvananthapuram on 26th September. (27)

- 2018 : Delivered an **Invited Talk** on Ozone Variability as part of the **World Ozone Day Celebrations** jointly conducted by TKMM College, Nangyarkulangara, Harippad, Alappuzha District and KCSTE, Govt. of Kerala, Thiruvananthapuram on 18th September. (26)
- 2018 : Delivered an **Invited Talk** on Global Warming and Climate Change as part of the **National Convergence Conclave on Challenges of Climate Change** jointly conducted by S.N. College, Cherthala, Alappuzha District and KCSTE, Govt. of Kerala, Thiruvananthapuram on 18th March. (25)
- 2017 : Delivered an **Invited Talk** on Ozone as part of the **World Ozone Day Celebrations** jointly conducted by B.K.College for Women, Amalagiri, Kottayam District and KCSTE, Govt.of Kerala, Thiruvananthapuram on 4th October. (24)
- 2017 : Delivered an **Invited Talk** on Ozone as part of the **World Ozone Day Celebrations** jointly conducted by St George Vocational Higher Secondary School, Kaippuzha, Kottayam District and KCSTE, Govt.of Kerala, Thiruvananthapuram on 2nd October. (23)
- 2017 : Conducted an Inter-Collegiate **Quiz Competition** on Ozone as part of the **World Ozone Day Celebrations** jointly conducted by S.N.College, Cherthala, Alappuzha District and KCSTE, Govt.of Kerala, Thiruvananthapuram on 27th September. (22)
- 2017 : Delivered an **Invited Talk** on *The Story of Atmospheric Ozone and Its impact on Bio Sphere* at St.Xavier's College, Aluva, Ernakulam District as part of the World Ozone day Celebrations jointly conducted by St. Xavier's College, Aluva and KCSTE, Govt.of Kerala, Thiruvananthapuram on 26th September. (21)
- 2017: Delivered an **Invited Talk** on Impact of *Global Warming and Climate Change on Biosphere* at St.Xavier's College, Vaikom, Kottayam District as part of the **Popular Science Lecture Series** of the college on 4th August. (20)
- 2017: Delivered an **Invited Talk** on Impact of *Global Warming and Climate Change on Coastal Community and Marine Biosphere* at Charai Beach Resort, Cherai as part of the Participatory policy making workshop of **ARTISTICCC, an international project undergoing in School of Industrial Fisheries, Cochin University of Science & Technology** on 29th April. (19)
- 2017: Delivered an **Invited Talk** on *Global Warming and Climate Change* at SN College, Cherthala as part of the **Walk With Scholars (WWS)** programme on 16th April. (18)
- 2016: Delivered an **Invited Talk** on *Global Warming and Climate Change Impact* at YMCA camp site hall, Thottumugham, Aluva as part of the workshop on **Kerala's Power Policy** conducted by KSEB Pensioner's Association, on 1st October. (17)

- 2016: Delivered an **Invited Talk** on *Ozone Depletion* as part of the **World Ozone Day** celebrations at Sree Narayana Arts & Science College, Kumarakom, in collaboration with KSCSTE, Govt. of Kerala, on 30th September. (16)
- 2016: Delivered an **Invited Talk** on *Impact of Global Warming on Bio-Sphere* as part of the **World Environment Day** celebrations at Bharat Petroleum Corporation Limited, Kochi on 6th June. (15)
- 2015: **Mentor** for the Senior students team of PKMM HSS, Edarikode, Malappuram for the Research Topic “*An Impact of Rock Mining to the nearby environment – A case study with Cherupadi Hills*” in the **National Children’s Science Congress programme of CBSE schools**. (14)
- 2015: **Mentor** for the Junior and Senior students team of CRESCENT public school, Alwaye, Ernakulam for the research topic “*Impact of Industrialization on a Rural station in Ernakulam– A case study with Mudickal*” and “*Impact of Human Activity on the Regional Climate of Periyar Tiger Reserve*” successively and won the state level meet in the **National Children’s Science Congress programme of CBSE schools**. (13)
- 2015: Delivered an **Invited Talk** on “*Regular Ocean Observations by INCOIS*” as part of the **ARTISTICC project sponsored by the Ministry of Earth Science, Govt.of India** at School of Industrial Fisheries, Cochin University of Science & Technology, Kochi-16. (12)
- 2015: Delivered an **Invited Talk** on “*Global Climate Change and Possible Sea Level Rise*” as part of the **ARTISTICC project sponsored by the Ministry of Earth Science, Govt.of India** at School of Industrial Fisheries, Cochin University of Science & Technology. (11)
- 2015: Conducted an Inter Collegiate **Quiz programme** for the National Seminar on “*Ozone Layer: Track to Recovery; Montreal Protocol A Success Story*” in connection with the **World Ozone day celebrations** at the Department of Atmospheric Sciences, CUSAT. (10).
- 2015: Delivered an **Invited Talk** on “*Ozone and its Impact on Living Systems*” at Al-Ameen College, Edathala, Alwaye, for the **World Ozone Day celebrations** sponsored by KCSTE, Govt.of Kerala. (9)
- 2015: Delivered an **Invited Talk** on “*The Impact of Climate Change on Environment*” SN College, Cherthala, for the **World Environment Day celebrations** sponsored by KCSTE, Govt.of Kerala. (8)
- 2014: Delivered an **Invited Talk** on “*Ozone Depletion and Its Impact on Biosphere*” SN College, Cherthala, for the **World Ozone Day celebrations** sponsored by KCSTE, Govt.of Kerala. (7)

- 2014: Conducted an Inter Collegiate **Quiz programme** for the National Seminar on “*Preservation of Ozone Layer*” in connection with the **World Ozone Day** celebrations at the Department of Atmospheric Sciences, CUSAT. (6)
- 2014: Delivered an **Invited Talk** on *Global Warming and Its Impact* at Department of Zoology, N.S.S College, Cherthala. (5)
- 2014: **Resource Person** for **SERB School of Department of Science and Technology, Govt. of India conducted** at Department of Electronics, Cochin University of Science & Technology and had taken classes on *Synoptic Meteorology*. (4)
- 2013: Delivered an **Invited Talk** on “*Ozone Depletion and Its Impact on Biosphere*” MES college, Marampally, Alwaye for the **World Ozone Day** celebrations sponsored by KCSTE, Govt.of Kerala. (3)
- 2013: **Resource Person** for **SERB School of Department of Science and Technology, Govt. of India** held at the Department of Electronics, Cochin University of Science & Technology and had taken class on *Mountain Meteorology*. (2)
- 2007: **Resource Person** for the **Faculty Improvement Programme (FIP) of UGC** held at the Department of Atmospheric Science, Cochin University of Science & Technology and had taken class on “*Atmospheric Modelling*”. (1)

Research Works:

1. Archana Nair, and **Venu G. Nair** and K.Shadananan Nair (2021) *The role of North West Equatorial Indian Ocean in modulating the variability of southwest monsoon rainfall over Kerala in a climate change perspective*; International Journal of Theoretical and Applied Climatology, 146(1), 139-154.
2. K.Shadananan Nair, **Venu G. Nair**, Archana Nair and Bindu K C (2021) “*Impacts of Changing Climate and Rising Sea Level: Challenges of Mitigation and Adaptation in Kerala*” submitted to Kerala State Council for Science, Technology & Environment, Govt. of Kerala, Thiruvananthapuram, Kerala, INDIA.
3. Archana Nair, **Venu G. Nair** and K.Shadananan Nair (2019) *Role of Changing Dynamic Parameters in Controlling the Extreme Events Over Peninsular India in the Recent Decades* ; Proceedings of the 33rd Kerala Science Congress conducted at Kollam, , KCSTE, Thiruvananthapuram, Kerala, INDIA.
4. Lakshmi M.S, and **Venu G. Nair** (2019) *A Detailed Analysis of the Variability and the Behaviour of the Rainfall Spells Over Kerala During the Recent Decades in the Context of Global Climate Change.*; Thesis submitted for the partial fulfilment of M.Sc. Degree in Geology at the Department of Geology, Calicut University, Kozhikode, Kerala, INDIA.
5. Ani Mathew, and **Venu G. Nair** (2019) *A Study of the Spatial & Temporal Variability of the Meteorological Drought and Ground Water Level Across Kerala in the Recent Decades .*; Thesis submitted for the partial fulfilment of M.Sc. Degree in Geology at the Department of Geology, Calicut University, Kozhikode, Kerala, INDIA.
6. Keerthi Sasikumar, and **Venu G. Nair** (2016) *Temporal and Spatial Analysis of Drought*

- Over a Tropical Wet Station of India in the Recent Decades Using the SPI Method* ; Int. J.Appl, Pure Sci. & Agri. Vol. 2, Issue 6, 12-21.
7. Sivan.C and **Venu G. Nair** (2016) *Increasing Trend of Air Pollution Over Kerala*; Proceedings of the 28th Kerala Science Congress conducted at Kozhikode, 631– 644, KCSTE, Thiruvananthapuram, Kerala, INDIA.
 8. Keerthi Sasikumar and **Venu G. Nair** (2016) *A Study of the Occurrence of Drought over Kerala during the Recent Decades Using the Standardised Precipitation Index Method*; Thesis submitted for the partial fulfilment of M.Sc Degree in Department of Atmospheric Sciences, Cochin University of Science & Technology, Kochi, Kerala, INDIA.
 9. Sivan.C, and **Venu G. Nair** (2015) *Variability Atmospheric Aerosols Over Kerala and its Impact on the Regional Climate*; Thesis submitted for the partial fulfilment of M.Sc Degree in Department of Atmospheric Sciences, Cochin University of Science & Technology, Kochi, Kerala, INDIA.
 10. Remya.R and **Venu G. Nair** (2014) *A Study of the Ocean Forcing on Findlater Jet Over the Indian Region and Its Impact on Kerala Rainfall*; Proceedings of the 26th Kerala Science Congress conducted at Wayanad, 05-04, 1697– 1704, KCSTE, Thiruvananthapuram, Kerala, INDIA.
 11. Shinu Sheela Wilson and **Venu G. Nair** (2013) *Variation of Atmospheric Boundary Layer Parameters during a Partial Annular Solar Eclipse*; Proceedings of the 25th Kerala Science Congress conducted at Trivandrum, 05-18, 412– 414, KCSTE, Thiruvananthapuram, Kerala, INDIA.
 12. Suthinkumar, and **Venu G. Nair** (2013) *A Study of the Influence of El-Nino Event on the Modulation of Atmospheric Circulation Pattern Over Pacific*; Thesis submitted for the partial fulfilment of M.Sc Degree in Department of Atmospheric Sciences, Cochin University of Science & Technology, Kochi, Kerala, INDIA.
 13. Vineetha.Rose F.B, and **Venu G. Nair** (2011) *A Study of the Variability of Some Meteorological Parameters During the Positive and Negative Phase of Arctic Oscillation*; Thesis submitted for the partial fulfilment of M.Sc. Degree in Department of Atmospheric Sciences, Cochin University of Science & Technology, Kochi, Kerala, INDIA.
 14. **Venu G. Nair** and Mohankumar.K (2010) *A Modeling Study of the Thermally Induced Wind System Over The Slope of The Western Ghats*; Proceedings of the 22th Kerala Science Congress conducted at Peechi,05-16, 28-31, KCSTE, Thiruvananthapuram, Kerala, INDIA.
 15. K.Mohankumar, P.V.Joseph, **Venu G. Nair**, Prasanth.K.Pillai and Krishnamohan.K (2010) “*Mesoscale Modelling for Monsoon Related Predictions-Phase-II*” submitted to Council of Scientific & Industrial research, Govt. of India, as part of the NMITLI Programme in the Department of Atmospheric Sciences, Cochin University of Science & Technology, Kochi, Kerala, INDIA.
 16. **Venu G. Nair**, K. Mohanakumar (2009) *Impact of Western Ghats Orography on the Weather and Climate of South India*, 1st ed., Germany : VDM Verlag, Dr. Muller Aktiengesellschaft & Co., GERMANY.
 17. **Venu G. Nair** and Mohankumar.K (2008) *Modeling of Some Synoptic Scale Effects Induced by Western Ghats on the Windward and Leeward side of the Mountain*;

Proceedings of the 20th Kerala Science Congress conducted at Trivandrum,04-06, 353 – 355,KCSTE, Thiruvananthapuram, Kerala, INDIA.

18. K.S. Appu, Nithin Viswambaran, **Venu G. Nair** and K. Mohanakumar (2008) *Stratospheric winter warming over Antarctic region-Its characteristics and interaction with equatorial middle atmosphere*, 37th COSPAR Scientific Assembly, Montreal, CANADA during 13-20 July 2008.
19. K.Mohankumar, **Venu G. Nair**, Rajesh.J and Lorna R.Nayagam (2007) “*Influence of Western Ghats orography and Arabian sea over the weather and climate of Kerala*” submitted to University Grants Commission, Govt.of India, as part of the SAP-I Programme in the Department of Atmospheric Sciences, Cochin University of Science & Technology, Kochi, Kerala, INDIA.
20. K.Mohankumar, P.V.Joseph, **Venu G. Nair**, Sijikumar.S, Manu Anna Thomas and Sreekumar.S (2006) “*Mesoscale Modelling for Monsoon Related Predictions- Phase-I*” submitted to Council of Scientific & Industrial research, Govt. of India, as part of the NMITLI Programme in the Department of Atmospheric Sciences, Cochin University of Science & Technology, Kochi, Kerala, INDIA.
21. Joseph P.V, Anu Simon, **Venu G. Nair** and Aype Thomas (2004) *Intra – Seasonal Oscillation (ISO) of south Kerala Rainfall during the Summer Monsoons of 1901-1995*; J. Earth Sys.Sci. **113**, No.2, 139-150.
22. K.G.Anilkumar, K.R.Santosh, Baby Chakrapani, **Venu G. Nair** and Sajith.V (2000) “*Carrying Capacity Based Development Planning for Greater Kochi Region (Air Environment)*” submitted to Ministry of Environment and Forest, Govt.of India as part of the CCBDP project in the Department of Atmospheric Sciences, Cochin University of Science & Technology, Kochi, Kerala, INDIA.
23. **Venu G. Nair** and R.R.Rao (1994) *A Study on the Rainfall Distribution Over the Tropical Indian Ocean during the Summer Season from INSAT*; Thesis submitted for the partial fulfilment of M.Tech. degree in the Physical Oceanography and Meteorology Division, Cochin university of Science & Technology, Kochi, Kerala, INDIA.

Articles on Technical Magazines

1. An article on ‘Changing Kerala’s Southwest Monsoon Pattern’ has published in Rubber Magazine of Rubber Board, Ministry of Commerce & Industry, Govt. of India, Kottayam on September 2019 Issue.
2. Articles are writing in Print Media in Malayalam as well as English about contemporary issues in weather and climate change.
3. Maintaing a whatsapp group named World Weather Watch for the last 5 years where weather related issues around the world are analyzing and discussing in layman language to more than one hundred members representing various strata of society.

Field & Extension Works:

- ♣ Installed and maintained five *Automatic Weather Stations (AWS)* at different locations of Kerala State as part of the project sponsored by **Ministry of Environment and Forest, Govt. of India** in the Department of Atmospheric Sciences, Cochin University and Science & Technology.
- ♣ Conducted Extensive *Air Pollution Survey studies on National Highways and Main district roads of Greater Kochi Region* as part of the Project Sponsored by **Ministry of Environment and Forest, Govt. of India** in Department of Atmospheric Sciences, Cochin University and Science & Technology.
- ♣ Installed and maintained four *Automatic Weather Stations (AWS)* at different locations of Kerala State as part of the **UGC- SAP Project** in the Department of Atmospheric Sciences, Cochin University and Science & Technology.
- ♣ Installed and maintained one *Mini Boundary Layer Mast (MBLM)* at CUSAT campus as part of the collaborative program of **Department of Atmospheric Sciences, Cochin University and Science & Technology** with **ISRO Bangalore**.
- ♣ Worked as a *Fire Officer Trainee* for One year at **Cochin Port Trust Fire Service** as part of the Fire Engineering Programme conducted by the Technical Education Department, Govt. of Kerala during the year 1996-1997.
- ♣ Successfully completed two months Practical attachment in “*Regular Fire Brigade Operations*” with **Mumbai Fire Brigade** at Nariman Point Fire Station, Mumbai as part of the Fire Engineering Programme during the year 1998.
- ♣ Successfully completed two weeks Practical attachment with **Mangalore Refinery and Petrochemicals, Surathkal, Karnataka** and obtained advanced training in “*Petroleum Fires and Its Control Operations*” as part of the Fire Engineering Programme in the year 1998.
- ♣ Successfully completed one week Practical attachment with **Goa State Fire Force, Panaji** and obtained advanced training in “*Rescue and Fire Operations in High rise Building Fires*” as part of the Fire Engineering Programme in the year 1998.
- ♣ Conducting *Visual Education Class Room programmes in Science* to promote scientific spirit among students both at **Colleges and School levels** as part of the CEREM objective.
- ♣ Writing *Popular Science Articles* in the **Print Media** regarding the current development in Climate Sciences and World Weather Watch (WWW) Programmes.
- ♣ Actively participating in Visual Media in the discussion of current weather analysis.

Participation in Scientific Gatherings: (23)

- 2021: Attended the one week National Faculty Development Programme on “**Strategies for Enhancing the Mental Health in Teachers and Students**” Jointly organised by Guru Angad Dev Teaching Learning Centre, a centre under PMMMMNMTT, Ministry of Education, Govt. of India and Rajagiri College of Social Sciences (Autonomous) held from 26th October 2021 to 1st November 2021.
- 2016: Attended the workshop on “**Geomatics for Coastal Zone Management**” organised by Ministry of Earth Science, Govt. of India, held at Kerala University of Fisheries and Ocean Studies, Kochi, during April.
- 2015: Participated in the Intermediary Workshop on “**Virtual Labs and Online Learning Management System**” conducted by Value Virtual Labs, an Initiative of MHRD under National Mission on Education through ICT at Amrita Vishwa Vidyapeetham University in Kollam, Kerala during March.
- 2014: Participated in National Workshop on “**Characteristic of Monsoon Factors Responsible for Contrasting Features**” held at Department of Atmospheric Sciences, CUSAT in Kochi, Kerala during December.
- 2013: Participated in National Workshop on “**Atmosphere-Ocean Interaction**” held at Department of Atmospheric Sciences, CUSAT in Kochi, Kerala during the year August.
- 2013: Participated in National Symposium on “**Preservation of Ozone Layer and Climate Change**” organised by the Department of Atmospheric Sciences, CUSAT in Kochi, Kerala during the year September.
- 2013: Participated in the INDO-MARECLIM Winter school on “**Climate Change, Marine Eco-Systems and Coastal Zone Management**” held at NANCEN Environmental Centre, Kochi-36 during 2-7 November.
- 2013: Participated in the India-European Union Workshop-II on “**Monsoon and Ocean Variability, Climate Change and Sea Level Variations**” held at NANCEN Environmental Centre, Kochi-36 during 11-13 November.
- 2012: Attended the workshop on “**Regional Ocean Modelling System (ROMS)**” held at Department of Physical Oceanography, CUSAT, during November.
- 2011: Attended the **23rd Kerala Science Congress** held at Rubber Board, Kottayam, Kerala during January.
- 2010: Presented a poster titled “*A Modeling Study of the Thermally Induced Wind System over the Slope of the Western Ghats*” on the **22nd Kerala Science Congress** held at KFRI, Thrissur during January.
- 2009: Participated in the **Indo-Russian Workshop on Regional Climate Change** under the Bilateral Programme Between DST, Govt. of India & Nancen Environmental Research Centre, India & Nancen Centre, Russia on October 8-9.
- 2008: Attended the **21st Kerala Science Congress** held at Kollam, Kerala during January .

- 2008: Presented a paper on the **20th Kerala Science Congress** held at Thiruvananthapuram, Kerala during January.
- 2007: Participated in the **DST SERC School** on Aviation Meteorology conducted by Department of Science & Technology, Govt.of India at Air Force Administrative College, Coimbatore during the year.
- 2004: Attended the International workshop on “**Scale Interaction and Variability of Monsoon (SIVOM)**” jointly organised by CMMACS & CUSAT at Munnar, Kerala during the year.
- 2002; Participated the workshop on **Mesoscale Modelling with Special Emphasis on Mountain Weather Forecasting** conducted by NCMRWF, DST, Govt. of India at New Delhi during July.
- 2002: Attended the Indo-US Workshop on “**Weather and Climate Modelling**” organised by NCMRWF, DST, Govt. of India at New Delhi during February.
- 2000: Participated in the National Conference “**Tropmet-2000**” organised by Indian Meteorological Society in Kochi, Kerala during the year.
- 1998: Participated in the National Conference on “**Stratospheric-Tropospheric Interaction**” organised by Department of Atmospheric Sciences, CUSAT in Kochi, Kerala during the year.
- 1991: Successfully completed the **Summer Research Programme** conducted at Centre for Atmospheric and Oceanic Sciences, IISC, Bangalore during the year.
- 1989: Successfully completed the **Short Term Compute Software Course in Basic and Word Star** conducted by the Indian Physics Association, Cochin Chapter in collaboration with Department of Physics, Cochin University of Science & Technology.
- 1988: Successfully completed the **Preliminary course in Basic** conducted by Computer Science Association, Cochin University of Science & Technology in August.
