

# Prof. M.A. Mohammed Aslam

Head, Department of Geology, Central University of Karnataka

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## Expertise

Hydrogeology, Remote sensing and GIS

## Education

PhD (Remote Sensing), Chiba University,

Japan PhD (Geology), Mysore University, India

MSc (Geology), Mysore University, India [First Rank; 4 Gold Medals; 1 Cash Prize]

BSc (Geology), Calicut University, India [Third Rank]

Additional Qualification: MBA (Systems), SMU

## Experience

Central University of Karnataka India, Professor of Geology, 1<sup>st</sup> August 2015- Present

Central University of Karnataka India, Associate Professor of Geology, 1<sup>st</sup> August 2012- 31<sup>st</sup> July 2015

Pondicherry University (Central University), India, Reader in Earth Sciences, June 2010- Feb 2011

Government Colleges, [Directorate of Collegiate Education], Govt. of Kerala, India, Lecturer/ Assistant Professor in Geology, Oct 2000- July 2012, including lien

[Worked at *Government Engineering College, Thrissur-9: Government College, Kasaragod; University College and Govt College Kariavattom, Trivandrum*]

International Academy for Graduate Studies , Ras Al Khaimah, UAE, Director [Academic and Research], Oct 2007- June 2010

Sultan Qaboos University, Remote Sensing and GIS Center, Sultanate of Oman, Researcher, Oct 2006 - Oct 2007

Chiba University, Center for Environmental Remote Sensing (CEReS), Japan Researcher, Oct 2001 - Sep 2003

Ministry of Water Resources, Central Ground Water Board, Government of India Scientist-B, July 2000 - Oct 2000

University of Mysore, Dept. of Studies in Geology, India, CSIR Senior Research Fellow, 1997 – '99

University of Mysore, Dept. of Studies in Geology, India, CSIR Junior Research Fellow, 1995 – '97

## Positions

(Selected)

- Head, Department of Geology, Central University of Karnataka (CUK), Feb 2014-present
- Member, Syndicate, Kannur University, 2011-2015
- Nodal Officer (SC, ST, OBC, PWD and Minorities), Central University of Karnataka, 2015
- Member, Academic Council, Central University of Karnataka, 2014-present
- Member, Academic Council, Kannur University, 2011-2015
- Faculty of Science Member, Kannur University, for four years since Aug 2013
- Member, District level Technical Support Group, Kerala State Biodiversity Board, 2012
- Member, School Board (Earth Sciences), Central University of Karnataka, 2012-present
- Chairman, Doctoral Committee (Geology), Kannur University, 2012-
- Member, Board of Studies in Geography, Central University of Karnataka, 2012-2015
- Member, Board of Studies in Geology, Central University of Karnataka, 2012-2015
- Member, Board of Studies in Social Work, Central University of Karnataka, 2013-2016
- Member, Board of Studies in Geology, Kerala University, 2005-2007
- Member, Board of Studies in Geology, Kannur University, 2007-2009, 2013-2015
- Member, Board of Studies in Geology, Calicut University, 2013-2016
- Convener ( Standing Committee- Student Welfare), Kannur University, 2013-2015
- Member, Research Council, Kannur University, 2011-2015
- Member, Works and Planning (Standing committee), Kannur University, 2011-2015
- Member, Courses, Research, Library and Planning (Standing committee), Kannur University, 2011-2015
- Member, Courses -Affiliation (Standing committee), Kannur University, 2011-2015
- Member, Staff-Affiliation (Standing committee), Kannur University, 2011-2015
- Member, Sports Advisory Board, Kannur University, 2015

## Publications

(Selected)

Bharat L and Mohammed -Aslam MA (2015) Influence of Lineaments on drainage morphometry using Geoinformatics: a case study of Nethravathi Watershed, 2(5), 2015, International Journal of Research pp1103-1116

Shruthi S, M.A Mohammed-Aslam (2015). Agricultural Drought Assessment using Geospatial techniques: A general Overview, JI. Of Urban and Regional Studies 2015, 1(2), pp20-24

MA Mohammed Aslam (2015). Satellite based spectral signatures of coastal wetlands and mangrove vegetation of Kasaragod, 2015, pp 217-220. Biodiversity Conservation-Challenges for Future. Bentham Science Publishers

- Shruthi S, M.A Mohammed -Aslam (2014). GIS and Remote sensing Techniques for Drought Management, Advances in Assessment of EI: GIS and RS Applications, Proceeding of Nat conf MAAEI; Govt College Kasaragod 2014, pp 23-28
- MA Mohammed Aslam (2014). Spectral unmixing for improved image analysis, 2014, vol. 1, pp1-3In: Recent Advances in Signal and Image Processing
- MA Mohammed Aslam (2014). Image recoding for improved classification, 2014, vol.1, pp4-123In: Recent Advances in Signal and Image Processing
- Shruthi S, M.A M Aslam 2014, Vegetation Stress Analysis Using NDVI at Drought Prone Raichur District, Karnataka. IWRM-2014, ISBN No: 978-81-8424-907-1
- Shruthi S, M.A M Aslam 2015, Agricultural Drought Analysis Using the NDVI and Land Surface Temperature Data; a Case Study of Raichur District, Elsevier , Aquatic Procedia, Vol: 4, pages 1-1568(2015).
- Bharath Kumar L, M A Mohammed- Aslam, 2014, Water table characteristics analysis of Gulbarga taluk using Arcscene software presented in Krishi sanskriti International conference JNU New Delhi. (ISBN: 978-93-84144-81-4).
- G.M. Mahadevaswamy, and Mohammed-Aslam M. A (2014) Lineament Tectonics of Lokapavani Micro Watershed, Mandya District, Karnataka, India, GCK Science. Lett, 2(2), pp19-25
- G.M. Mahadevaswamy, S.M. Yamuna and Mohammed -Aslam M. A (2013). Groundwater Flow Modeling for Watershed Management: An Application in Hard Rock Terrain of India, International Journal of Plant, Animal and Environmental Sciences, 3(2): 186-196 .
- Mohammed-Aslam M.A., Raghavendra B.R., Abdussalam, A.K., Hussain K, Thomas George and Gopinathan V. (2014). MODIS Derived Multi-temporal Canopy Characteristics of Mangroves: A Micro Level Assessments at Kasaragod, Kerala, India, Meridian Journal. 2014, 2(3): pp: 126-132
- Mohammed-Aslam M. A and Prabhakaran A (2013). Monitoring of groundwater status in Kasaragod, GCK Sci. Lett., 2(1): 1-4.
- Mohammed-Aslam M. A (2013). Environmental Implications of climate change, GCK Sci. Lett., 2(1): 65-69.
- Mohammed-Aslam M. A (2013). Prospects of GIS in Education Curriculum, In: Innovative approaches and strategies of digital pedagogy, pp 53-55, ISBN 978-93-5126-202-2
- S Kumar and M.A Mohammed -Aslam (2014). Temporal Urban vegetation pattern of Mumbai using satellite data, 2014, Vol. I, pp.171-174 Perspectives on Biodiversity of India Publisher: CISSA
- Mohammed-Aslam M. A (2012). Application potential of groundwater modeling in Geology, GCK Sci. Lett., pp9-21.
- Mohammed-Aslam M. A (2012). Public Participatory Approach for Biodiversity Conservation and Management, Biodiversity Cons. Prosp. & Challenges, 2012, 2012, pp 15-18, ISBN 978-93-5104-266-2
- Mohammed-Aslam M. A., Suresh Mohan Ghosh, Thomas George, and Abdussalam A.K\_ (2012). Western Ghats: The Biodiversity Hotspot, , Biodiversity Cons. Prosp. & Challenges, 2012, 2012, pp 51-55, ISBN 978-93-5104-266-2

- Abdussalam A.K and Mohammed-Aslam M. A., (2012). Biodiversity of Flora and Fauna in the Paddy Fields of Kerala State, , Biodiversity Cons. Prosp. & Challenges, 2012, 2012, pp95-99, ISBN 978-93-5104-266-2
- Mohammed-Aslam M. A (2012). Role of Remote Sensing in Biodiversity Conservation, , Biodiversity Cons. Prosp. & Challenges, 2012, pp118-123, ISBN 978-93-5104-266-2
- Thomas George, Mohammed-Aslam M. A (2012). A case study of water quality of wells around the main SW dumping site at Kureepuzha, Kollam, GCK Sci Lett., pp55-61.
- Mohammed-Aslam M. A., Abdussalam A.K., Madhusudhanan K. and Suresh Mohan Ghosh (2012). Digital Analysis of LISS3 Data around Mangrove Habitat at Lower Reaches of Valapattanam River, Kerala, India, JI of Mill. Z'logy, v. 13 (1), pp 42-45.
- Abdussalam, A.K., K. Madhusudhanan, K. Azeez, and M.A. Mohammed-Aslam (2012). Effect of Cold Stress on Physiological and Biochemical Activity of Squash Plant (*Cucurbita maxima* L.) of the Family Cucurbitaceae, JI of Mill. Z'logy, v. 13(1), pp50-58.
- Mohammed Aslam MA. (2012). "SWOT Analysis of Satellite Assisted ICT Development of Education Sector in India", International Journal of Advanced Research, v.2, No.2, 74-78.
- Mohammed Aslam MA. (2011). "Interlinking of Rivers in India: A Critical Analysis", International Journal of Advanced Research, 1(1):60-64.
- Mohammed Aslam MA. Abdussalam Ak, (2011). GIS based Assessment for the need of conserving Biodiversity of south western low lands of India in relation to the terrain characteristics, JI of Mill. Z'logy, v. 12, pp 72-73
- Abdussalam AK, Mohammed Aslam MA, PV Jyothi, K Azeez, Girijan (2011). Ecological Impacts of Changing cultivation on the Biodiversity of Wynad, Kerala, India, JI of Mill. Z'logy, v. 12, pp 44-49
- Abdussalam AK, Mohammed Aslam MA (2011). Wayandinte vishamayamakkunna krishi reethigal, In : Endosulfan, Ed. By Nawas, pp 135-139 (Malayalam)
- Madusoodhanan, Dhreshya, Raghavan, Mohammed Aslam MA and Abdussalam AK (2010). Ecoenvironmental Implications and Interactions of Micorrhiza, JI of Mill. Z'logy, v.11, pp 1-6.
- Mohammed-Aslam M. A., V. Gopinathan, Sreemathi Gopinath.K' Abdussalam A. K.' K. Madhusudhanan(2010) Interdisciplinary Approach in the Geospatial Applications of Fragile Ecosystems, Special Issue of Eco-chronicle , pp62-66
- Mohammed-Aslam M. A. (2010) Thrust Areas of Geospatial Applications in Fragile Ecosystems and a Case Study , Special Issue of Eco-chronicle, pp 74-78
- Mohammed-Aslam M. A. and Balasubramanian A (2010). History of Channel Modifications – A Review, JI of Ecology and the Natural Env. Vol. 2(10), pp. 207-212
- Abdul Ashraf K. M., Mohammed-Aslam M. A. and Santhosh N. (2010). Time Series Analysis of Rainfall and Hydrograph of Piezometers in Response to Controlling Hydrogeology in a Sub-basin, South India, Eco-chronicle, 4(3): pp155-160.
- Mohammed-Aslam M. A. , Deepa P. and Abdussalam A. K. (2010). Lineament Tectonics of Kasaragod Block, Kerala, India; Part-1: Delineation by PCA technique using satellite Image, Eco-chronicle., 4(4): pp257-260
- Mohammed-Aslam M. A. , (2010). Lineament Tectonics of Kasaragod Block, Kerala, India; Part-2: Geophysical signatures, Eco-chronicle., 4(4): pp257-260

Mohammed Aslam MA, A. Kondoh, Mohamed Rafeekh P. and Manoharan AN (2010). Evaluating Groundwater Potential of a Hard-rock Aquifer Using Remote Sensing and Geophysics", Spatial Hydrology, v.10.,no.1, pp76-88.

Santhosh N., Mohammed-Aslam M.A. and Abdul Ashraf K.M (2010). Hydrogeological characteristics of Laterite bearing unconfined aquifer in a low land, South India, Ind. Jl. of Multi Disc. Res., v.6(2), pp257-264.

Mohammed Aslam MA, (2009). Landcover classification of Kasaragod Municipality (Keral state) using Ladsat TM Image, In: Urban Environment and Geoinformatics (Ed: Kalpana Markandey and S Simhadri), Rawat Pub. ISBN 81-316-0256-7. pp 167-172.

Mohammed Aslam, M.A. Rokhmatloh, Z.E. Salem and Ts. Javzandulam (2006). Linear Mixture Model applied to the land-cover classification in an alluvial plain using Landsat TM data, Journal of Environmental Informatics 7(2), pp95-101.

Z.E. Salem, Y.Sakura and M.A. Mohammed Aslam (2004). The use of temperature, stable isotopes and water quality to determine the pattern and spatial extend of groundwater flow: Nagaoka area, Japan. Hydrogeology Journal Vol.12,No.5, pp563–575. Springer

Mohammed-Aslam M.A. and A. Balasubramanian, (2002). Delineation of Palaeochannels using Remote Sensing and Geophysical data around Talakad in Cauvery River basin, India, , Jl. Of Geophysics, Vol. XXIII, No. 2, pp. 43-50

Mohammed Aslam, M.A., Balasubramanian, A (2001). Identification of Palaeochannels around Cauvery river near Talakad, Karnataka, India, using Remote sensing data, Journal of In. Society of Remote Sensing, Vol.29, No.4, pp237-242 Springer.

Books:

MA Mohammed -Aslam (2013). GIS Based Modeling for Water Resources Development, 138p, ISBN978-3-659-36952-0

MA Mohammed -Aslam and Thulassedharan P (2013). Groundwater Vulnerability- A Quantitative approach. 53p, ISBN978-3-659-37263-6

MA Mohammed-Aslam (2015). Geographic Information System : Computer Based Decision Supporting Tool (print), ISBN978-3-659-6261-1

Suresh Mohan Ghosh, Thomas George, Mini and MA Mohammed-Aslam (2012). Edited: Biodiversity Conservation challenges and prospects, (2012), GCK, ISBN978-93-5104-266-2