




## Faculty Details proforma for DU Web-site

| Title   | <b>Professor</b>  | First Name | <b>Devesh</b> | Last Name | <b>Sinha</b> | Photograph   |
|---|---|------------|---------------|-----------|--------------|--|
| Designation   | <p><b>Professor , Department of Geology,<br/>Centre of Advanced Studies</b></p> <p><b>Ex-Dean of Colleges<br/>University of Delhi</b></p> <p><b>Ex- Head, Department of Geology</b></p> <p><b>Ex- Dean , Faculty of Science,</b></p> <p><b>Ex- Chairman Board of Research Studies<br/>(Science)</b></p> |            |               |           |              |  |
| Address   | <p>Email (deveshksinha@yahoo.com)<br/>deveshksinha@yahoo.com<br/>dsinha@geology.du.ac.in</p> <p><b>Department of Geology, Centre of<br/>Advanced Study, Delhi University, Delhi-<br/>110007</b></p> <p><b>Residence: A-1 / 4, Maurice Nagar, Delhi<br/>University, Delhi-110007</b></p>                 |            |               |           |              |  |
| Residence : 011 27662214                                |   |            |               |           |              |  |
| Mobile: 09818546353                                     |   |            |               |           |              |  |
| Email : deveshksinha@yahoo.com, dsinha@geology.du.ac.in |   |            |               |           |              |  |
| Educational Qualifications                              |   |            |               |           |              |  |
| <b>Post Doctoral</b>                                    | GEOMAR Res. Centre for Marine Geosciences, Germany  |            |               |           |              |  |
| <b>Ph.D.</b>  | Banaras Hindu University  |            |               |           |              |  |
| <b>M.Sc</b>   | Banaras Hindu University  |            |               |           |              |  |
| <b>B.Sc</b>   | Banaras Hindu University  |            |               |           |              |  |
| Career Profile  |   |            |               |           |              |  |
| <b>Professor</b>  | Department of Geology, Centre of Advanced Studies, Delhi University :<br>2008 onwards   |            |               |           |              |  |
| <b>Associate Professor</b>                              | Department of Geology, Banaras Hindu University: 2006-2007  |            |               |           |              |  |
| <b>Reader</b>   | Department of Geology, Banaras Hindu University- 2000-2006  |            |               |           |              |  |
| <b>Senior Lecturer</b>                                  | Department of Geology, Banaras Hindu University: 1996-1999  |            |               |           |              |  |
| <b>Lecturer:</b>  | Department of Geology, Banaras Hindu University- 1991-1995  |            |               |           |              |  |

## Brief CV

**Dr. Devesh K Sinha** is presently , **Professor of Oceanography and Marine Geology in the Department of Geology, Centre of Advanced Study at Delhi University**. He was also *Head of the Department* and was *Ex-Dean, Faculty of Science*. He held one amongst the top administrative positions in the University of Delhi and worked as Dean of Colleges from 2016-2018. **Prof. Sinha** obtained his Graduate and Post-Graduate degrees in Geology from **Banaras Hindu University** with specialization in Micropaleontology and Paleooceanography. He obtained his Doctoral degree from the same University on “Late Neogene *Paleoceanography of the Southwest Pacific Ocean*” based on Deep Sea Cores recovered from **International Ocean Drilling Programme – on Lord Howe Rise between Australia and New Zealand**. Prof. Sinha later did his Post-Doctoral Studies from **GEOMAR Research Centre for Marine Geosciences, University of Kiel, Germany on North Atlantic Thermohaline Circulation and “Heinrich Layers” based on RV -Sone-Cores from Portuguese margin**. He also studied the **recession of Alpine Glaciers, Switzerland** due to climate change. After serving his alma mater for nearly two decades he joined **University of Delhi** where he continues to be a **Professor**, teaching Oceanography and Micropaleontology, Paleoclimate and Stratigraphy. His research interest includes

- a) Refinement of Cenozoic Geological Time Scale;
- b) Paleooceanography of the last 6 million years;
- c) Understanding teleconnections in Earth –Ocean–Climate system on geological time scale and
- d) Effect of plate tectonics- closing and opening of ocean gateways and their effect on ocean circulation and climate change.

He has significantly contributed to all the above aspects by publishing papers at national and international levels. Due to his contributions in paleoceanography, he has been invited by several organizations for sharing his expertise including **National Science Foundation, USA** where he was instrumental in framing initial phase of **Integrated Ocean Drilling Programme (IODP)** in Bengal Fan at **University of Colorado, USA**. His research work has found very significant citations in international literature including his more than 10 refinements in Cenozoic Time Scale which have been incorporated in Geological Time Scale-2012 published by **Elsevier** recently.

Prof. Sinha has been member of several important academic committees including those of **CSIR** and **ISRO** and **UGC**. He is also at present **Vice-President** of the Paleontological Society of India. He was **UGC Expert** and **Advisory Member** of the CAS in Geology of Kumaun University, Nainital and at present UGC advisor at Utkal University, Bhubaneswar, and Banaras Hindu University. Prof. Sinha has been member of Governing Bodies of prestigious Institutions of Delhi University including Miranda College, Patel Chest Institute, BRA Centre for Biomedical Research, CPDHE, and Ex-Chairman of the Governing Body of Baskaracharya College of Applied Sciences. He was also **Ex-Chairman** of Departmental Promotional Committee of Delhi University, At present he is **-Executive Council Member** of Delhi University.

Prof. Sinha has chaired several technical sessions in National and International Conferences and has delivered invited talks and keynote addresses at many prestigious national and international institutions including Indian Academy of Sciences, Bangalore, Indian Institute of Technology, Kanpur; National Institute of Oceanography, Goa; National Centre for Antarctic and Ocean Research, Goa; Cochin University of Science and Technology, Cochin, Utkal University, Bhubaneswar; GJU University Hisar, University of Kashmir, Srinagar, CSIR Centre for Mathematical Modelling and Computer Simulations, Bangalore; Indian Institute of Physics, Bhubaneswar; Indian School of Mines, Dhanbad, S.N. Bose Institute of Physics, Kolkata, Department of Geology, Kumaun University, Nainital, Department of Geology, Madras University, Chennai, Indian Institute of Technology, Chennai, Indian Institute of Technology, Bhubaneswar, Wadia Institute of Himalayan Geology Dehra Dun, University of Colorado, University of Kiel, Yonsei University, South Korea, to name a few. He has been a frequent speaker at the INSPIRE programmes of DST. He was several times honoured as Guest speaker at Earth Day celebrations.

Prof. Sinha has the privilege of being in the **Expert Panel** in a USA Academy-INSA –Public Expert interaction of Climate Change held at INSA, New Delhi, IIT Bombay, IIT Chennai, PRL Ahmadabad and West Bengal Academy of Sciences, Kolkata.

Prof. Sinha has also been a **Participating Shipboard Scientist** in International Oceanographic Expeditions conducted under **JOINT GLOBAL OCEANOGRAPHIC STUDIES (JGOFS) in Indian Ocean**. Having a wide experience of sailing in Tropical Pacific, Atlantic and Indian Oceans to the freezing Baltic and North Sea, he has also edited a book “**Micropaleontology: Application in Stratigraphy and Paleooceanography**” published from **Alpha Science International Oxford, and Narosa Publishers, New Delhi**. At present he has several International Research Projects on Global Cenozoic Ocean Circulation including

- a) Variation of Indonesian Throughflow during Late Neogene- (**With Kochi -Japan**)
- b) Paleooceanography of the Trans Tropical Pacific-( **With Texas A & M University; USA**)
- c) Late Neogene variation in ITCZ-(**Kochi –Japan**);
- d) Late Neogene History of Benguela Current (**Bremen University, Germany**)
- e) Variation in Indian Monsoon since Last Glacial Maximum-**ISRO-International Geosphere-Biosphere Programme, India**.

Prof. Sinha is in Expert Panel of reviewers in CSIR, ISRO, DST, MOES and UGC. He is reviewer of papers published by Elsevier and other national and International Journals. Besides academics he loves music and is a vivid player of flute and mouthorgan. His family includes his wife, Son and all his research scholars.

#### Administrative Assignments

- Vice President: Paleontological Society of India
- **Ex-Chairman**: Governing Body, Bhaskaracharya College of Applied Sciences, Delhi University
- **Incharge**- Scanning Electron Microscopic facility, 1991-2007  
Department of Geology, Banaras Hindu University
- **Head and Dy Coordinator**, Centre for Advanced Studies Delhi University
- Ex-Chairman : Board of Studies (Science), Delhi University
- **Member**, Departmental Research Committee, Deptt. of Geology, Delhi University
- **Former Member**, Governing Body: Rajdhani College Delhi University
- **Member**: Governing Body, Miranda House, Delhi University
- **Member**: Executive Council, Delhi University
- **Ex-Member**: Governing Body Patel Chest Institute, Delhi University
- **Member**: UGC Advisory Committee, Department of Geology, Utkal University
- **Ex-Member** : Governing Body : CPDHE ( Centre for Professional Development in Higher Education), Delhi University
- **Chairman**: Management Committee Jubilee Hall Delhi University
- **Member**, UGC Advisory Committee, CAS in Geology, Kumaun University
- **Member**, Garden Committee, Delhi University
- **Vice-President**: Paleontological Society of India, Lucknow
- **Member**: Board of Studies in Geology : University of Kashmir
- **Member**: SET Advisory Committee, Jammu and Kashmir

#### Areas of Interest / Specialization

**Climate Change**: Inferring Late Neogene Opening and closing of ocean gateways and their linkage to global climate change.

**Cenozoic Oceanic biostratigraphy** Refinement in Cenozoic Oceanic biostratigraphy by estimating Cross

latitudinal Diachronism in Planktic foraminiferal events employing graphic correlation especially in Indo-Pacific region.





**Teleconnections (Ocean Circulation and Climate Change)** in Earth System during last 6 million years. Understanding teleconnections amongst Ice cap expansion, ENSO, Ocean Circulation, Western Pacific Warm Pool and Indonesian Throughflow during Late Neogene.

**Subjects Taught**

- Micropaleontology and Paleoceanography (Post-Graduate)
- Paleoceanography and Paleoclimatology (Post Graduate)
- Indian and World Stratigraphy (Post Graduate)
- Principles of Biostratigraphy (Post Graduate)
- History of Earth (Post Graduate)
- Earth System Science (Under Graduate)
- Earth's Climate (Under Graduate)
- Indian and World Stratigraphy Cenozoic ( Post Graduate)

**Research Guidance**

**Supervision of awarded Doctoral Thesis**

|   |  |
|---|--|
|   | <p><b>Late Neogene planktic foraminiferal biochronology and paleoceanography of ODP sites from southeast Indian Ocean (IODP-ODP 762B &amp;763A)</b></p> <p><i>Dr. Ashutosh Kumar Singh</i><br/> <i>( Assistant Professor , Department of Geology, Delhi University, Delhi)</i></p>           |
|  | <p><b>Planktic foraminiferal record of Late Neogene upwelling history in the Eastern Pacific (IODP-ODP-846B)</b></p> <p><i>Dr. Kirtiranjana Mallick</i><br/> <i>( Assistant Professor, Department of Geology Utkal University, Bhubneshwar)</i></p>  |
|  | <p><b>Quaternary Paleoceanography of ODP sites from the Sulu Sea and Equatorial Indian Ocean : Planktic foraminiferal evidences</b></p> <p><i>Dr. Vikram Pratap Singh</i><br/> <i>(Assistant Professor, Department of Geology) Indira Gandhi National Tribal University, Amarkantak)</i></p> |
|  | <p><b>Late Neogene – Quaternary planktic foraminiferal biostratigraphy and paleoceanography of ODP Hole 807A Ontong Java Plateau, Western Equatorial Pacific Ocean</b></p> <p><i>Dr. Tushar Kaushik</i><br/> <i>Scientist ARI ( DST Institute) , Pune</i></p>                                |



- Late Neogene -Quaternary Planktic foraminiferal biostratigraphy and paleoceanography of ODP site 1085A, Southeast Atlantic.

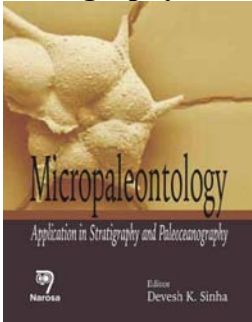
**Dr. Ankush Shrivastava**  
*(Post Doctoral Fellow- Indian Institute of Science and Educational Research- IISER-Pune)*

**Supervision of awarded M.Phil. dissertations**

Late Quaternary Paleoclimatic changes from the southwestern Indian Ocean  
**Dinesh Kumar Naik**

**Publications Profile since 2006**

*Books/Monographs (Authored/Edited)*

| <u>Year of Publication</u> | <u>Title</u>   | <u>Publisher</u>  |
|----------------------------|--|---|
| 2007                       | <b>Micropaleontology: Applications in Stratigraphy and Paleoceanography:</b><br> | <i>Narosa Publishing House, New Delhi &amp; Alpha Science International Oxford, UK.</i> |

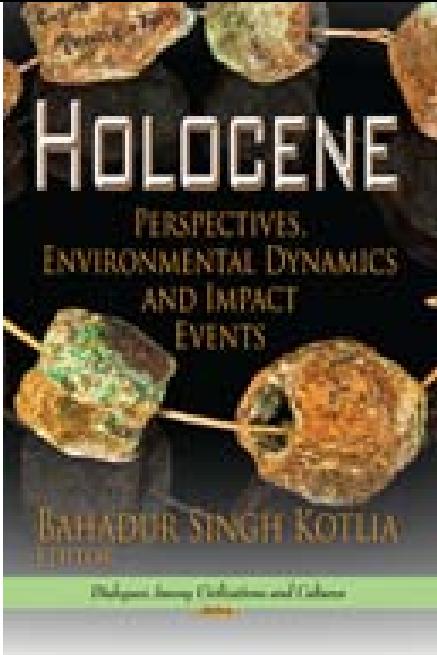
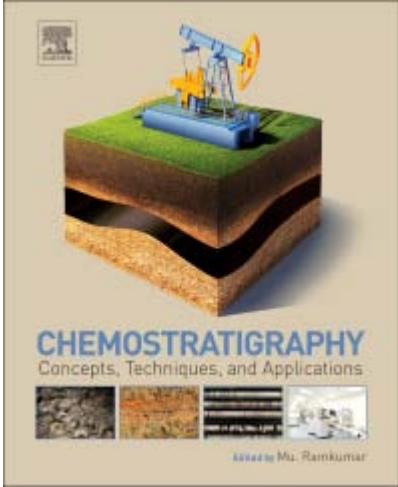
***Research papers published in Refereed/Peer Reviewed Journals ( 2006 onwards)***

|      |   |   |   |
|------|---|---|---|
| 2006 | Extant coccolithophorids from the Central Arabian Sea: Sediment Trap Results:   | <i>Journal of Earth System Science: 115 no.4, p.415-428</i> | L. Mergulhao, R.Mohan, Murthy, V.S.N., Guptha M.V.S.      |
| 2006 | Seasonal variations of Pteropods from the western Arabian Sea Sediment Trap:  | <i>Geo Marine Letters, Spinger. 26. p. 265-273</i>          | R. Mohan, Verma, K, Babu, K.N. , Sinha and Guptha, M.V.S. |
| 2006 | Paleoceanographic and paleoclimatic history of ODP site 763 A ( Exmouth plateau) southeast Indian Ocean: 2.2 m record of planktic foraminifera. | Current Science. Vol.90, No.10.p.1363-1369                  | Singh Ashutosh K and Manish Tiwari,                       |

|      |  |   |  |
|------|--|---|--|
| 2007 | Surface Circulation in the Eastern Indian Ocean during last 5 million years: Planktic foraminiferal evidences.   | <i>Indian Journal of Marine Sciences</i> . Vol.36[4]-Dec.2007,pp.342-350  | Ashutosh K. Singh  |
| 2008 | Late Neogene planktic foraminiferal biochronology of the ODP site 763a, exmouth plateau, southeast Indian ocean. | <i>Journal of Foraminiferal Research</i> , USA, v. 38, no. 3, p. 251–270. | Ashutosh K. Singh  |
| 2010 | Retrieval of south Asian monsoon variation during the Holocene from natural climate archives                     | <i>Current Science</i> Vol. 99 No. 12 25 December 2010                    | R. Ramesh, M. Tiwari, S. Chakraborty, S. R. Managavel, M. G. Yadav       |
| 2012 | Indian Contributions in the field of Paleooceanography (2006-2007)   | <i>Proc. Ind. Nat. Sci. Acad.</i> Vol. 78, No. 3.                         | Anil Gupta, Ashutosh K Singh, P. Diwakar Naidu, R. Saraswat and A.K. Rai |

***Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals***

|      |  |   |  |
|------|--|---|--|
| 2007 | Discovery of Early Miocene Microtektite horizons in the northern Indian Ocean DSDP Site 216 In: <i>Micropaleontology: Application in Stratigraphy and paleoceanography</i> :               | <i>Alpha Science International, U.K. and Narosa Publishers, New Delhi</i> . P.227-237 | Srinivasan M. S.   |
| 2007 | Episodes of weakening of Leeuwin Current during Quaternary: Isotopic and Planktic foraminiferal evidences In: <i>Micropaleontology: Application in Stratigraphy and paleoceanography</i> : | <i>Alpha Science International UK and Narosa Publishers, New Delhi</i> . P. 303-312   | Ashutosh Kumar Singh   |
| 2013 | Holocene: definition and current stratigraphic status in the geological time scale: In: <i>Holocene: Perspectives, Environmental Dynamics and Impact Events</i> (Ed. B.S.Kotlia),          | <i>Nova Science Publishers, USA</i>   | Ashutosh K Singh, Kirtiranjana Mallick and Vikram Pratap Singh |

|      |  |   |  |  |
|------|--|---|--|--|
|      |   |   |  |  |
| 2015 | <p>STABLE ISOTOPES: TOOLS FOR UNDERSTANDING PAST CLIMATIC CONDITIONS AND THEIR APPLICATIONS IN CHEMOSTRATIGRAPHY</p>  | Elsevier  | Manish Tiwari, Ashutosh K. Singh, <b>Devesh K. Sinha</b> . In: <b>Chemostratigraphy, Elsevier, 2015: p.65-92</b> |  |
| 2016 | Wind Strength Variability in the Western Arabian Sea since the Last Glacial Maximum: Southwest vs. Northeast Monsoon Modes   | Journal of Climate Change IOS Press ( <i>The Netherlands</i> ) vol. 2, no. 2, pp. 57-70, 2016 | Singh, Ashutosh K.   Tiwari, Manish   Srivastava, Ankush <b>Sinha, Devesh</b>                                    |  |

|  |  |   |   |
|--|--|---|---|
|  |  | DOI: 10.3233/JC<br>C-160017   | K. Ramesh, R.   |
| 2016   | Significance of <i>Globigerina Bulloides</i> D'orbigny: A Foraminiferal Proxy for Palaeomonsoon and Past Upwelling Records | Journal of Climate Change<br><i>IOS Press ( The Netherlands)</i><br>vol. 2, no. 2, pp. 99-110, 2016<br>DOI: 10.3233/JC-160021 | Shrivastav, Ankush <sup>a</sup>   Singh, Ashutosh Kumar <b>Sinha, Devesh K.</b> Kaushik, Tushar Singh, Vikram Pratap Mallick, Kirtiranjan |
| Conference Organization/ Presentations   |  |   |   |
| Keynote address : Challenges in Paleobiology: BSIP, Lucknow , 2005: APPLICATION OF PLANKTIC FORAMINIFERA IN INFERRING PAST OCEAN CIRCULATION AND CLIMATE   |  |   |   |
| XXI Indian Colloquium on Micropaleontology and Stratigraphy, Birbal Sahni Institute of Paleobotany, Lucknow Colloquium Lucknow. 2007<br><b>Chaired</b> one technical session<br><b>Acted</b> as one of the <b>Judge</b> for Poster Presentation Awards                       |  |   |   |
| Invited Talk on the Indonesian Throughflow at Brain Stroming Meeting CMMACS, bangalore, 2008   |  |   |   |
| <b>Invited T alk</b> 2007. Depth stratification in planktic foraminifera as a proxy for monsoonal intensity. Abstract. Geosphere Biosphere Workshop on High Resolution Monsoon Reconstruction since the last Glacial Maximum. (~20000 years) <b>Cochin</b> p.7-8             |  |   |   |
| Invited Talk “Influence of Waxing and Waning of Antarctic Ice-Sheet on the Eastern Indian Ocean Circulation during Quaternary at “ NCAOR-BSIP conference on “Climatic Changes during the Quaternary: Special reference to Polar Regions and Southern Ocean, 2009, NCAOR, Goa |  |   |   |
| Key note paper : Surface circulation in the Indo-Pacific during last 5 million years: XXII Indian Colloquium on Micropaleontology and Stratigraphy, Trichy, December, 2009   |  |   |   |
| “Variability of Southwest Monsoon since Last Glacial Maximum- ISRO- Meeting University of Hyderabad, january, 2011   |  |   |   |
| National Conference on Stratigraphy, Paleontology and Paleoenvironment, Rajasthan University, Jaipur: Chaired Session, February, 2011  |  |   |   |



|   |
|---|
| Guest Speaker: “Earth Day” at function of Society for promotion of Science and Technology at the invitation of Chief Election Commissioner, Haryana at Hisar. April, 2011       |
| Guest Speaker : “Earth Day” at function held in Department of Environmental Engineering GJ University, Hisar, April, 2011   |
| Mentor (Guest Speaker) at SMVD University, Jammu in INSPIRE Programme of DST- June, 2011  |
| Geological Society of India, Annual General Meeting and Conference, Varanasi- 2011  |
| International Conference on Asian Marine Geology, National Institute of Oceanography, Goa October, 2011   |
| International Conference on Geodynamics of Himalaya and Indian Monsoon, Dehra Dun, November, 2011   |
| Indian Colloquium on Micropaleontology and Stratigraphy, Bangalore. Chaired Session, December, 2011   |
| Guest Speaker ( Mentor) at SMVD University, Jammu, at INSPIRE Camp of DST, December, 2011   |
| Guest Speaker ( Mentor) at Kashmir University, INSPIRE Camp, Feb, 2012  |
| Chief Speaker at the Inugural Function in the National Conference on Geoenvironmental Issues and Climate Change at Department of Geology, Utkal University, Odisha, March, 2012 |
| Guest Speaker : Earth Day at VD Jindal School, Hisar, Haryyana, 21 April, 2012  |
| Mentor and Invited Speaker, DST INSPIRE Camp at Kumaun University Nainital- 5 November, 2012  |
| Invited Lecture at the Department of Geology, Kumaun University Nainital, 6 <sup>th</sup> Nov, 2012   |

|  |
|--|
| Chief Guest at the Inaugural Function DST INSPIRE Camp, Kumaun University Nainital, 21 November, 2012  |
| Invited Lecture at the DST INSPIRE Camp, Kumaun University Nainital, 21 November, 2012   |
| Invited Lectures at the Department of Geology, Kumaun University Nainital, 22 and 23 Nov, 2012   |
| Expert – Selection of Management Trainees (Geology) at Coal India Limited 29 November to 1 <sup>st</sup> Dec , 2012.   |
| January, 21,2013: Inaugural Mentor’s Lecture at the INSPIRE Camp at Rajdhani College, Delhi University, Delhi  |
| Feb,12-13, 2013: Attended PAGES International Conference- Ocean Science meet at Goa- Chaired Technical Session OSM-15- Ocean Circulation and Climate Dynamics  |
| Feb- 22. 2013: Invited Talk at the National Institute of Oceanography, Goa at the IGU Meeting  |
| March-11, 2013: Co-Chair : Technical Session : River systems and run off and ocean acidification ; Climate change preparedness and agriculture; Ocean acidification and its impact on fisheries: <b>DELHI ROUND TABLE CONCLAVE 2013</b> ; <i>Vulnerable India: Ocean Acidification, Sea Level Rise and Extreme Event at : India International Centre</i> |
| March- 13-14: Invited Talks at Department of Geology, Kumaun University, Nal: <ol style="list-style-type: none"> <li>1. Stratigraphy: The Science of Cause and Effect Relationship</li> <li>2. Application of Foraminiferal Biostratigraphy and Biogeography to understand past ocean circulation and climate, 2013</li> </ol>                           |
| March-20: Invited Talk at the Academic Staff College, JNU: Ocean Circulation and Climate Change: Past Present and Future, 2013   |
| March-23. Invited Talk at the Indian Academy of Social Sciences at NATIONAL WORKSHOP ON COMMUNICATING SCIENCE OF CONSERVATION OF PLANET EARTH TO THE PEOPLE FOR PEACEFUL CO-EXISTENCE AND A JUST WORLD at School of Life Sciences, JNU., 2013  |

|   |
|---|
| Guest Speaker at the Earth Day convened by Society for Promotion of Science and Technology in India (SPSTI), Haryana at TITS, Bhiwani- 22 <sup>nd</sup> April, 2013   |
| Invited Lecture Series at Department of Geology, Kumaun University 1-3 June, 2013.  |
| Invited Talk at the INSPIRE Camp , SRMSCET, Bareilly, September, 2013   |
| Invited Talk at the WORKSHOP on Climate Change, Madras University, Chennai, 30 <sup>th</sup> September, 2013  |
| Invited Talk at the INSPIRE Camp, Utkal University, Bhubneshwar, 3 <sup>rd</sup> October, 2013  |
| Invited Talk at the Department of Earth Ocean and Climate, IIT Bhubneshwar, 4 <sup>th</sup> October, 2013   |
| Key Note Address at the Indian Colloquium on Micropaleontology and Stratigraphy, Wadia Institute of Himalayan Geology, Dehra Dun, 2013, November.   |
| Chaired Technical Session at the Indian Colloquium on Micropaleontology and Stratigraphy, Wadia Institute of Himalayan Geology, Dehra Dun, 2013, November.  |
| Invited Talk at the INSPIRE Camp at Asian Institution, Patiala, November, 15, 2013  |
| Invited Talk at the Refresher Course Kumaun University nainital, 21 <sup>st</sup> November, 2013  |
| Invited Talks at the Department of Geology Kumaun University, Nainital 21 <sup>st</sup> November, 2013  |
| Attended 'Brainstorming Session on Management and Sustainable Development of Dal Lake through Scientific Intervention and Stakeholders Participation' organized by the Centre of Research and Development (CORD), University of Kashmir, Srinagar- 30 <sup>th</sup> November,2013 |

|   |
|---|
| Key Note Address at the International Conference on “ Recent Developments in Stratigraphy” Pune, December, 2013   |
| Chaired Technical Session at the International Conference on “ Recent Developments in Stratigraphy” Pune, December, 2013  |
| Invited talk at the DST INSPIRE Camp- RG Engineering College, Meerut- 28 <sup>th</sup> December , 2013  |
| Inaugural Key note address at the International Seminar on Geosciences for Mineral development and environmental challenges ( GEMDEC-2014) Department of Geology, Utkal University, Bhubaneswar- January-2104 |
| Invited lecture at the EDUSAT Channel of IGNOU on 7 <sup>th</sup> February, 2014 on “ Climate Change and Ocean Circulation”.  |
| Invited Talk at the INSPIRE Camp ,JNU, 19 February, 2014  |
| Invited Talk at REFRESHER COURSE, JNU, 25 <sup>th</sup> February, 2014  |
| Panelist : US Science Academy- INSA- Public - Expert Interaction on Climate Change- INSA, August 2014, New Delhi  |
| Panelist : US Science Academy- INSA- Public - Expert Interaction on Climate Change-, IIT Bombay, September, 2014, Mumbai  |
| Panelist and Speaker: US Science Academy- INSA- Public - Expert Interaction on Climate Change-, IIT Chennai, September, 2014, Chennai   |
| Panelist : US Science Academy- INSA- Public - Expert Interaction on Climate Change-, Physical Research laboratory, Ahmedabad September, 2014, Ahmadabad.  |
| Panelist : US Science Academy- INSA- Public - Expert Interaction on Climate Change-, West bengal Academy of Sciences , December, 2014, Kolkata  |

|   |
|---|
| Resource Person : Refresher course in Earth/ Environmental Science Delhi University   |
| Chief Guest and Key Note speaker at the “ Science Day” February, Indian Institute of Technology, Roorkee- 2015  |
| Key Note Speaker at the International Indian Ocean Symposium, National Institute of Oceanography, Goa, 2nd December, 2015   |
| Key Note Speaker on Science Education: Global Issues at <b>Yonsei University, South Korea</b> - 5th Nov, 2015   |
| Key Note Address at Department of Economics, University of Allahabad” Economic of Climate Change: Global Issues” - Towards Green Future- 5th February, 2016   |
| Panelist at US Academy of Sciences- INSA- joint meeting on Chennai Rains at Anna University, Chennai.   |
| Invited Talk on “ Cenozoic Stratigraphy-Climate” at Department of Geology, Kumaun University, Nainital- 26th March, 2016  |
| Key Note Address on “Quaternary Stratigraphy” at National Conference at National Institute of Oceanography, Goa- 28th April, 2016   |
| Key Note Address on “ Climate Change: Geologist’s Perspective” at workshop organised by NISCARE ( CSIR) at Central Road Research Institute (CRRI)-CSIR, New Delhi-5th May, 2016   |
| Invited Talk at <b>Agarkar Research Institute, Pune</b> , 25th July, 2016. “ Earth Ocean and Climate: Connections in Past, Present and Future”.   |
| <b>Research Projects (Major Grants/Research Collaboration)</b>  |
| <p>Comparison of Late Neogene planktic foraminiferal biostratigraphy and paleoceanography of Tropical Indian and Pacific oceans: Implication on timing of closing of Indonesian Seaway and related paleoceanographic changes ( IODP Proposal- Courtesy Texas A-M University USA)</p> <p>Variations in the Trans Tropical Pacific Circulation System and its linkages to Closing of Indonesian and Central American Seaway during Late Neogene. (Courtesy IODP, KCR- Japan)</p> <p>Variability of Indian Monsoon since LGM- ISRO- GBP Project ( A part of International Geosphere and Biosphere programme)</p> |

Late Neogene evolution of Benguela Upwelling system, Planktic foraminiferal biostratigraphy ( ODP 1085A), South Atlantic (Courtesy IODP, BCR, Germany)

Late Neogene planktic foraminiferal biostratigraphy and paleoceanography of ODP 716A, Northern Indian Ocean ( Courtesy : IODP, KCR- Japan)

#### Awards and Distinctions

Nominated by JOI (Joint Oceanographic Institute, (USA) as Member and invited to participate and present a talk on Indian Ocean paleoceanography at the Planning meeting for International Ocean Drilling sponsored by the National Science Foundation, USA, Boulder, Colorado U.S.A.

Expert Member (CSIR), to review and reformulate the Syllabus of Earth, Atmospheric and Ocean Sciences for All India Net examination.

Member of the National Working Group on Paleoclimatic Changes. (The Indian Space Research Organization (ISRO).

Fellow, Geological Society of India

Convener: XIX Indian Colloquium on Micropaleontology and Stratigraphy

Convener: National Symposium on Indian Ocean Paleoceanography and Paleoclimate

Member, National Working Group, International Geological Correlation Programme IGCP-464 ( *Continental Shelves during last glacial maximum*).

Shipboard Scientist in International Sediment Trap Cruise Programmes in the Indian Ocean

Visiting Scientist at GEOMAR RESEARCH INSTITUTE OF MARINE GEOSCIENCES, GERMANY

Guest Speaker: INSPIRE- SMVD University

Guest Speaker: Earthday: Jindal School, Hissar, Haryana

Guest Speaker: Earthday , GJ University , Hissar Haryana

Chaired Technical Session: Conference on Stratigraphy and Paleontology: Jaipur

Chaired Technical Session: Polar Science Meet, NCAOR, Goa

Delivered Keynote Address; ICMS, Trichy

Member on various capacities in Board of Studies, Scientific Committees of various Universities.

Chief Speaker: National Conference on Geoenvironmental Issues and Climate Change, Utkal University.

Guest Speaker and Mentor: INSPIRE Camps of DST Kashmir University

Guest Speaker and Mentor: INSPIRE Camps of DST Kumaun University – 5 Nov, 2012

Guest Speaker and Mentor: INSPIRE Camps of DST Kumaun University – 21 Nov, 2012

Chief Guest, INSPIRE Camp, Kumaun University, Nainital- 21 Nov, 2012

Invited Speaker: IGU Meeting at NIO, Goa

Session Convener and Chairman: OSM-15- PAGES Ocean Science Meet- Goa

Co-Chair- Session –I- River systems and run off and ocean acidification ; Climate change preparedness and agriculture; Ocean acidification and its impact on fisheries: **DELHI ROUND TABLE CONCLAVE 2013; Vulnerable India: Ocean Acidification, Sea Level Rise and Extreme Event at : India International Centre**

Guest Speaker: Earth Day, TITS, Bhiwani, 22 April, 2013

Chief Guest and Speaker- Science Day- IIT Roorkee, 2014

Invited Speaker- Global Issues in Science Education- Yonsei University- South Korea

#### **Reviewer of papers published in reputed national and International Journals including**

- a) Marine Micropaleontology- Elsevier
- b) Radiocarbon- **International Journal of Cosmogenic Isotope research**
- c) Geomarine Letters- **Springer**
- d) Marine Geology- Elsevier
- e) Current Science : **Indian Academy of Sciences**
- f) Journal of Earth System Sciences: **Springer**
- g) **Journal of Geological Society of India**
- h) **Indian Journal of Marine Sciences**

#### **Reviewer of Projects funded by various research Organizations including**

- a) **Department of Science and Technology- SERC**
- b) **Department of Science and Technology- Fast Track Scheme**
- c) **Council of Scientific and Industrial research**
- d) **Indian Space research Organization**
- e) **UP State council of Science and Technology**

#### **Association With Professional Bodies**

1. *Member and Life Fellow: Geological Society of India Bangalore*
2. *Executive Member: Paleontological Society of India, Lucknow*

3. *Vice -President, Palaeontological Society of India Lucknow*
4. *Member, American Geophysical Union (AGU)*
5. *Life Member: Indian Geophysical Union*
6. *Member, Departmental Research Committee, Deptt. of Geology, Delhi University*
7. *Member , Governing Body: Rajdhani College Delhi University*
8. *Member: Governing Body, Miranda House , Delhi University*
9. *Member, IQAC Kumaun University Nainital*
10. *Member: Management Committee Jubilee Hall Delhi University*
11. *Member, UGC-Advisory Committee, CAS in Geology, Kumaun University*
12. *Member, DRS-UGC-Advisory Committee , Department of Geology, Utkal University, Bhubneshwar*
13. *Member, UGC-Advisory Committee, CAS in Geology, Banaras Hindu University*
14. *Memembr: Governing Body-Bhaskaracharya College of Applied Sciences*
15. *Member: Board of Studies Geology, Kashmir University*
16. *Chairman- CBCS-Oversight Committee, University of Delhi*
17. *Member-Executive Council Delhi University*