




## Faculty Details proforma for DU Web-site

<b>Title</b>	<b>Dr.</b>	<b>First Name</b>	<b>Ashutosh</b>	<b>Last Name</b>	<b>Singh</b>	<b>Photograph</b>
<b>Designation</b>		<b>Assistant professor in Micropaleontology and Oceanography</b>				
<b>Address</b>		<b>Department of Geology Centre of advanced study in Geology Delhi-University Delhi-110007 INDIA</b>				
<b>Phone No Office</b>						
<b>Residence</b>						
<b>Mobile</b>		<b>09971814780</b>				
<b>Email</b>		<b>2007ashu@gmail.com</b>				
<b>Web-Page</b>						
<b>Educational Qualifications</b>						
<b>Degree</b>	<b>Institution</b>			<b>Year</b>		
<b>M.Sc</b>	<b>Banaras Hindu University, Varanasi</b>			<b>2002</b>		
<b>B.Sc.</b>	<b>Banaras Hindu University, Varanasi</b>			<b>2000</b>		
<b>CSIR NET</b>	<b>CSIR, New Delhi, India</b>			<b>2003</b>		
<b>Ph.D.</b>	<b>Banaras Hindu University, Varanasi</b>			<b>2006</b>		
<b>Post Doctoral</b>	<b>Physical Research Laboratory, Ahmedabad</b>			<b>2008</b>		
<b>Career Profile</b>						
<b>Organization / Institution</b>		<b>Designation</b>		<b>Duration</b>		<b>Role</b>
<b>Department Of Geology DU, Delhi</b>		<b>Senior Assistant Professor</b>		<b>2012 -onwards</b>		<b>Teaching and Research</b>
<b>Department Of Geology DU, Delhi</b>		<b>Assistant Professor</b>		<b>2009-2012</b>		<b>Teaching and research</b>
<b>St. Xavier's College, Mumbai</b>		<b>Assistant Professor</b>		<b>2008 - 2009</b>		<b>Teaching and research</b>
<b>Physical Research Laboratory, Ahmedabad</b>		<b>PDF</b>		<b>2007- 2008</b>		<b>Research</b>
<b>DST, New Delhi</b>		<b>SRF</b>		<b>2005-2006</b>		<b>Research</b>
<b>BHU and DST, New Delhi</b>		<b>JRF</b>		<b>2002 - 2005</b>		<b>Research</b>

<b>Administrative Assignments</b>															
<p><b>Superintendent of Practical Examination (2010 &amp; 2011) Department of Geology, University of Delhi.</b></p> <p><b>Student Coordinator, Antardwhwani, Cultural Fest of Delhi University, 2013.</b></p>															
<b>Areas of Interest / Specialization</b>															
<p><b>Foraminiferal Biostratigraphy and Biochronology of deep sea cores and their stable isotopic analysis. Understanding the linkage between the thermohaline circulation, Indonesian through-flow, Western Pacific Warm Pool, ENSO and the Asian monsoon during Neogene.</b></p> <p><b>Understanding Global environmental change and roles of oceans in driving environmental variability and relation with Asian Monsoon variability and evaluate variation in the Sea surface temperature history based on planktic foraminiferal census counts.</b></p>															
<b>Subjects Taught</b>															
<ul style="list-style-type: none"> <li>• <b>Earth System Science,</b></li> <li>• <b>Quaternary Geology,</b></li> <li>• <b>Micropaleontology,</b></li> <li>• <b>Paleoceanography and Paleoclimatology,</b></li> <li>• <b>Stratigraphy and</b></li> <li>• <b>Petroleum Geology</b></li> </ul>															
<b>Research Guidance</b>															
<p><b>Supervision of Doctoral Thesis</b></p> <ol style="list-style-type: none"> <li>1. <b>Vikram P Singh (Awarded)</b></li> <li>2. <b>Tushar Kaushik (Awarded)</b></li> <li>3. <b>Hasan Majaz (working)</b></li> </ol> <p><b>Supervision of M.Phil Thesis</b></p> <ol style="list-style-type: none"> <li>1. <b>Brijesh Singh (Working)</b></li> </ol>															
<b>Publications Profile</b>															
<p><i>List against each head(If applicable) (as Illustrated with examples)</i></p> <p><i>1. Research papers published in Refereed/Peer Reviewed Journals</i></p> <table border="1"> <thead> <tr> <th><b>Year of Publication</b></th> <th><b>Title</b></th> <th><b>Journal</b></th> <th><b>Co-Author</b></th> </tr> </thead> <tbody> <tr> <td>2006</td> <td>Paleoceanographic and paleoclimatic history of ODP site 763A (Exmouth Plateau), Southeast Indian Ocean: 2.2 Ma records of Planktic foraminifera</td> <td><i>Current Science</i></td> <td>Devesh K Sinha, and Manish Tiwari</td> </tr> <tr> <td>2007</td> <td>Ocean circulation in the Indian ocean during last 5 million years: Planktic</td> <td>Indian Journal of</td> <td>Devesh K. Sinha</td> </tr> </tbody> </table>				<b>Year of Publication</b>	<b>Title</b>	<b>Journal</b>	<b>Co-Author</b>	2006	Paleoceanographic and paleoclimatic history of ODP site 763A (Exmouth Plateau), Southeast Indian Ocean: 2.2 Ma records of Planktic foraminifera	<i>Current Science</i>	Devesh K Sinha, and Manish Tiwari	2007	Ocean circulation in the Indian ocean during last 5 million years: Planktic	Indian Journal of	Devesh K. Sinha
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2006	Paleoceanographic and paleoclimatic history of ODP site 763A (Exmouth Plateau), Southeast Indian Ocean: 2.2 Ma records of Planktic foraminifera	<i>Current Science</i>	Devesh K Sinha, and Manish Tiwari												
2007	Ocean circulation in the Indian ocean during last 5 million years: Planktic	Indian Journal of	Devesh K. Sinha												

	foraminiferal evidences.	Marine Sciences	
2007	High resolution monsoon records from land and the ocean: what have we learnt during the last decade?	Hydrology Review	M. G. Yadava and R. Ramesh,
2008	Late Neogene Planktic foraminiferal biochronology of ODP site 763A, Exmouth Plateau Southeast Indian Ocean.	Journal of Foraminiferal Research	Devesh K Sinha
2011	High-resolution monsoon records since Last Glacial Maximum: a comparison of marine and terrestrial paleo-archives from South Asia.	<i>Journal of Geological Research.</i>	Manish Tiwari and Rengaswamy Ramesh.
2014	Provenance of the late quaternary sediments in the Andaman Sea: Implications for monsoon variability and ocean circulation.	Geochemistry Geophysics Geosystems	Neeraj Awasthi, Jyotiranjana S. Ray, Shraddha T. Band, Vinai K. Rai
2015	Monsoon onset signal in the stable oxygen and hydrogen isotope ratios of monsoon vapor.	Atmospheric Environment	Rohit Srivastava, R. Ramesh, Naveen Gandhi , R.A. Jani
2016	Significance of <i>Globigerina bulloides</i> D' orbigny: A foraminiferal Proxy for Palaeomonsoon and Past upwelling records.	<i>Journal of Climate Change</i>	Shrivastava, Ankush., Singh, Devesh K., Kaushik, Tushar., Singh, Vikram K., Mallick, Kirtiranjana.
2016	Wind Strength variability in the western Arabian Sea since the Last Glacial Maximum: Southwest vs. Northeast Monsoon Modes.	<i>Journal of Climate Change</i>	Tiwari, Manish., Shrivastava, Ankush., Sinha, Devesh K., and Ramesh, R
<b>2. Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals</b>			
a. Application of Planktic foraminifera and its stable isotope analysis in inferring the paleoceanography and paleoclimatic condition. <b>Ashutosh K Singh</b> and R. Ramesh, In Samudrika. Marine Wing, GSI, INDIA, <b>2007</b> .			
b. AGU Fall meeting, <b>Ashutosh K Singh, 2008</b> . Journal Geological Society of India, San Francisco, USA. vol.71, p.443-444.			
c. Indian Colloquium on Micropaleontology and Stratigraphy Trichy. Sinha, Devesh K, <b>Ashutosh K Singh</b> and K Mallick. Journal Geological Society of India. <b>2010</b> .			

- d. Indian contributions in the field of Paleoceanography (2006-2012). Anil Kumar Gupta, Devesh K Sinha, **Ashutosh K Singh**, P Diwakar Naidu, Rajeev Saraswat And Ak Rai, Proc Indian natn Sci Acad 78 No. 3 **2012**.

**3. Other publications (Edited works, Book reviews, Festschrift volumes, etc.)**

- |             |  |                                      |   |
|-------------|--|--------------------------------------|---|
| <b>2007</b> | Episodes of weakening of the Leeuwin Current during Quaternary: Planktic foraminiferal and isotopic evidences. | Alpha Sci. International, Oxford,UK. | Devesh K Sinha  |
| <b>2013</b> | Holocene: Definition and current status in the Geological Time scale; In: Holocene                             | Nova Science Publishers, USA         | Devesh K Sinha, K. Mallick and Vikram P Singh.            |
| <b>2015</b> | Stable isotopes: tools for understanding past climatic conditions and their applications in Chemostratigraphy  | Elsevier inc.                        | Manish Tiwari, <b>Ashutosh K. Singh</b> , Devesh K. Sinha |

**Conference Organization/ Presentations (in the last three years)**

*List against each head(If applicable)*

**1. Participation as Paper/Poster Presenter**

**National**

***Development of the Western Pacific Warm Pool during the Late Pliocene.*** Tushar Kaushik, **Ashutosh Kumar Singh**, Devesh K Sinha, K. Mallik, Ankush Srivastava and Vikram Pratap Singh, during XXIII ICMS & International Symposium, Bangalore University, Bangalore).**2011**.

**Plio-Pleistocene planktic foraminiferal Biostratigraphy of ODP Holes 762B, Eastern Indian Ocean: Evidence of Late Pliocene Faunal Turnover.** **Ashutosh K Singh** and Devesh K Sinha, XXIV ICMS, WIHG, 18-20 Nov, 2013.

**Quaternary waxing and waning of Antarctic ice sheet: connection from Poles to Tropics and tropics to Poles.** Devesh K Sinha and **Ashutosh K Singh**, Expert Meet and Conference on climate change and environmental sustainability: Records from Poles to Tropics, Centre of Advance study in Geology, University of Lucknow, Lucknow, 9-10 Sept., 2014.

**2. International**

**Monsoon Variability In The Western Arabian Sea During Last 10,000 Years BP: A Planktic Foraminiferal Abundances and It's Stable Isotope Records.** **Ashutosh K. Singh**, Manish Tiwari, Devesh K Sinha and R. Ramesh. AGU Fall Meeting, 2007, San Francisco, USA.

**Variability in the Indonesian Throughflow and its effect on climate"** Ashutosh K Singh and R. Ramesh. (International Conference on Terrestrial Planets: Evolution through time, at PRL, Ahmedabad, India, January 22-25, 2008.

**Evidence of Northern Hemisphere Glaciation in the Southeast Indian Ocean: Planktic foraminiferal and isotopic records.** Ashutosh K Singh, Devesh K Sinha and Manish Tiwari. *National Institute of Oceanography during International conference on Asian Marine Geology, 11<sup>th</sup>- 14<sup>th</sup> Oct. -2011.*

**Planktic foraminiferal record of Indian Summer Monsoon variability since the Last Glacial Maximum: Implications on Landscape evolution of Himalaya.** Ashutosh K Singh, Devesh K Sinha Manish Tiwari and R. Ramesh, *at Wadia institute of Himalayan Geology at IMHG-2011.*

***Paleoceanographic conditions in the Sulu Sea for the last 36 ky: Planktic foraminiferal evidences.*** Vikram Pratap Singh, **Ashutosh Kumar Singh**, Devesh K Sinha, K. Mallik, Tushar Kaushik, and Ankush Srivastava, XXIII ICMS & **International Symposium** held at the Department of Geology, Bangalore University, Bangalore, during 9th to 11th December 2011

**Variability in the strength of Monsoonal winds in the Western Arabian Sea since the Last Glacial Maximum: Evidence from Planktic Foraminifera and Oxygen isotope record.** Ashutosh K Singh, Manish Tiwari, Devesh K Sinha and R. Ramesh. 4<sup>th</sup> Open Science Meeting, PAGES Meet, NCAOR, Goa 13<sup>th</sup> Feb, 2013,

**Late Neogene planktic foraminiferal events of ODP site 762B, Exmouth Plateau, Eastern Indian Ocean: Regional diachrony and evidence of late Pliocene ocean circulation changes.** Ashutosh K Singh and Devesh K Sinha. 4<sup>th</sup> Open Science Meeting, PAGES Meet, NCAOR, Goa, 15<sup>th</sup> Feb, 2013.

#### **Invited Talks:**

- 1. Indian Monsoon: Evidence from Marine Archives,** Rajdhani College, Delhi University, 8<sup>th</sup> Feb. 2013.
- 2. Earth, Oceans and Climate Methods and interpretation to study the past.** National, Inspire Science Program, DST, New Delhi, 23-27 July, at Radha Govind Engineering College Meerut. 2014
- 3. Indian Monsoon History during Quaternary: Evidence from Marine records.** Department of Geology, University of Madras. 2015

#### **Research Projects (Major Grants/Research Collaboration)**

**Variability of the Indonesian through flow and its effect on the Oceanographic and Climatic Changes in the Indian Ocean during last 30,000 years based on planktic foraminiferal abundance and stable isotopic record?.** *Fast track Project, Department of Science and Technology, New Delhi.*

**Teleconnection between El Nino, Indonesian Throughflow and Western Pacific Warm Pool and its effect on Indian monsoon during Quaternary: Evidence from depth stratified planktic foraminiferal assemblage and stable isotope record, *Sponsoring Agency*: Delhi University.**

### **Awards and Distinctions**

Awarded **GOLD MEDAL** in the subject Micropaleontology & Oceanography.2002

Qualified **CSIR Net examination, 2003.**

Awarded from the promotional prize in the poster presentation during XXI Indian Colloquium on Micropaleontology and Stratigraphy, Lucknow, 16-17 Nov. **2007**

Awarded by **Post-Doctoral Fellowship from Physical Research Laboratory (PRL), Ahmadabad 2007-2008**

Received CSIR FOREIGN TRAVEL GRANT FOR YOUNG SCIENTISTS, 2007

Received “**Best Paper award**” at **Rajasthan University, Jaipur** during National Conference on Paleontology, Stratigraphy and Paleoecology, **2011.**

### **Association With Professional Bodies**

#### ***Memberships***

- a) Member, American Geophysical Union ( USA)**
- b) Member, Indian Science Congress Association, Kolkata**

### **Other Activities**

Attended the International Cruise on board French Ship Marion Dufresne. Carried out detailed bathymetric survey, lithological and sedimentological study and deep sea sediment coring from different stations from Bay of Bengal like K-G basin, Mahanadi Basin and proximal end of Bay of Bengal.