




Faculty Details proforma for DU Web-site

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cc: director@ducc.du.ac.in)

Title	Dr.	First Name	Ashutosh	Last Name	Singh	Photograph
Designation		Assistant professor in Micropaleontology and Oceanography				
Address		Room No. 118, Department of Geology Centre of advanced study in Geology Delhi-University Delhi-110007 INDIA				
Phone No Office						
Residence		E-1, Ground Floor, Teacher Residential Block, Ram Lal Kapoor Marg. Dhaka Village, Mukherjee Nagar, Delhi-09				
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Educational Qualifications						
Degree		Institution			Year	
M.Sc		Banaras Hindu University, Varanasi			2002	
B.Sc.		Banaras Hindu University, Varanasi			2000	
CSIR NET		CSIR, New Delhi, India			2003	
Ph.D.		Banaras Hindu University, Varanasi			2006	
Post Doctoral Fellow		Physical Research Laboratory, Ahmedabad			2008	
Career Profile						
Organization / Institution		Designation		Duration		Role
Department Of Geology DU, Delhi		Senior Assistant Professor		2012 -onwards		Teaching and Research
Department Of Geology DU, Delhi		Assistant Professor		2009-2012		Teaching and research
St. Xavier's College, Mumbai		Assistant Professor		2008 - 2009		Teaching and research
Physical Research Laboratory, Ahmedabad		PDF		2007- 2008		Research
DST, New Delhi		SRF		2005-2006		Research
BHU and DST, New Delhi		JRF		2002 - 2005		Research

Administrative Assignments			
<p>Superintendent of Practical Examination (2010 & 2011) Department of Geology, University of Delhi.</p> <p>Student Coordinator, Antardwhwani, Cultural Fest of Delhi University, 2013.</p> <p>Member, Faculty of Science, University of Delhi</p>			
Areas of Interest / Specialization			
<p>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.</p> <p>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.</p>			
Subjects Taught			
<ul style="list-style-type: none"> • Earth System Science, • Micropaleontology and Oceanography, • Paleoceanography and Paleoclimatology, • Cenozoic Stratigraphy • Petroleum Geology and • Earth and Climate 			
Research Guidance			
<p>Supervision of Doctoral Thesis</p> <ol style="list-style-type: none"> 1. Vikram P Singh (Awarded) 2. Tushar Kaushik (Awarded) 3. Anoop Tiwari (Working) <p>Supervision of Mphil.Thesis</p> <ol style="list-style-type: none"> 1. Brijesh K Singh 			
Publications Profile			
<p><i>List against each head(If applicable) (as Illustrated with examples)</i></p> <p>1. Research papers published in Refereed/Peer Reviewed Journals</p>			
Year of Publication	Title	Journal	Co-Author
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 foraminiferal evidences.	Indian Journal of Marine Sciences	Devesh K. Sinha

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
2017	Planktic Foraminifera As Indicators of Paleooceanographic Changes in The Sulu Sea During Late Quaternary.	VISTAS IN GEOLOGICAL RESEARCH	Vikram Pratap singh, Devesh k Sinha and Kirtiranjana Mallick,
2017	Application of mixed layer planktonic foraminiferal species as tracers of the ocean with special reference to eastern equatorial pacific.	VISTAS IN GEOLOGICAL RESEARCH	Vikram Pratap singh, Devesh k Sinha Kirtiranjana Mallick and Tushar Kaushik
2018	The Effect of Monsoon Circulation on the Stable Isotopic Composition of Rainfall	Journal of Geophysical Research: Atmospheres	Midhun, M., Lekshmy, P. R., Ramesh, R., Yoshimura, K., Sandeep, K. K., Kumar, S.

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

- a. Application of Planktic foraminifera and its stable isotope analysis in inferring the paleoceanography and paleoclimatic condition. **Ashutosh K Singh** and R. Ramesh, In Samudrika. Marine Wing, GSI, INDIA, **2007**.
- b. AGU Fall meeting, **Ashutosh K Singh, 2008**. Journal Geological Society of India, San Francisco, USA. vol.71, p.443-444.
- c. Indian Colloquium on Micropaleontology and Stratigraphy Trichy. Sinha, Devesh K, **Ashutosh K Singh** and K Mallick. Journal Geological Society of India. **2010**.
- d. Indian contributions in the field of Paleooceanography (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.)**

2007	Episodes of weakening of the Leeuwin Current during Quaternary: Planktic foraminiferal and isotopic evidences.	Alpha Sci. International, Oxford,UK.	Devesh K Sinha
2013	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.
2015	Stable isotopes: tools for understanding past climatic conditions and their applications in Chemostratigraphy	Elsevier inc.	Manish Tiwari, Ashutosh K. Singh , 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, 11th- 14th 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. 4th Open Science Meeting, PAGES Meet, NCAOR, Goa 13th 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. 4th Open Science Meeting, PAGES Meet, NCAOR, Goa, 15th Feb, 2013.

Invited Talks:

1. **Indian Monsoon: Evidence from Marine Archives,** Rajdhani College, Delhi University, 8th 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.
4. **Application of Neogene planktic foraminifera in inferring past surface ocean circulation and climate.** ICMS, Department of Geology, University of Madras. 2017.
5. **Role of Oceans in the Climate Change: Connections in Past, Present and Future & Lessons from the Past.** The Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, and University of Delhi is conducting an **Orientation Programme (OR-90) 2017.**
6. **"Planets earth's climate system: Past, Present and Future"** course on CLIMATE CHANGE: ISSUES, CONCERNS AND STRATEGIES, Sri Venkateswara College, University of Delhi, 111007. April, 2019
7. **Climate Change in the past: Demystifying the Deep Sea Sedimentary Records.** Department of environmental Science, University of Delhi, 11th April, 2019

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**
- c) **Member, Geological Society of India, Bangalore, India**
- d) **Member, Paleontological Society of India, Lucknow, India**

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.

Signature of Faculty Member

- You are also requested to also give your complete resume as a DOC or PDF file to be attached as a link on your faculty page.