




Faculty Details Proforma

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				
Mobile		09971814780				
Email		2007ashu@gmail.com, ashutoshsingh@geology.du.ac.in				
Web-Page						
Educational Qualifications						
	Degree	Institution	Year			
	B.Sc	Banaras Hindu University, Varanasi	2000			
	M.Sc.	Banaras Hindu University, Varanasi	2002			
	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	Associate Professor	2019-Onwards	Teaching and Research		
	Department Of Geology DU, Delhi	Assistant Professor	2009 -2019	Teaching and research		
	St. Xavier's College, Mumbai	Assistant Professor	2008 - 2009	Teaching and research		
	Physical Research Laboratory, Ahmadabad, Gujarat	PDF	2007- 2008	Research		
www.du.ac.in						Page 1

Administrative Assignments
<ul style="list-style-type: none"> • Member, Executive Council of the Paleontological Society of India. • Member, M.phil Committee of the Department of Geology • • Member, Faculty of Science, University of Delhi • Member, Board of Research Studies, University of Delhi • Convener, Course Planning and Timetable committee, Department of Geology • Student Coordinator, Antardwhani, Cultural Fest of Delhi University, 2013. • Superintendent of Practical Examination (2010 & 2011) Department of Geology, University of Delhi.
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,2015) 2. Tushar Kaushik (Awarded, 2016) <p>Supervision of M.phil. Thesis</p> <ol style="list-style-type: none"> 1. Brijesh K Singh (Awarded, 2018) <p>M.Sc. Dissertations</p> <p>Total 18 students did dissertation till 2019.</p>

Publications Profile

List against each head(If applicable) (as Illustrated with examples)

1. Research papers published in Refereed/Peer Reviewed Journals

- i. Devesh K Sinha, **Ashutosh Kumar Singh** and Manish Tiwari,. Paleooceanographic and paleoclimatic history of ODP site 763A (Exmouth Plateau), Southeast Indian Ocean: 2.2 Ma records of Planktic foraminifera (*Research Article, Current Science, vol 90, no.10, p.1363-1369. 2006*
- ii. Devesh K Sinha and **Ashutosh K Singh**. Ocean circulation in the Indian ocean during last 5 million years: Planktic foraminiferal evidences. *Indian Journal of Marine Sciences, V. 36(4), p. 342-350. 2007a*
- iii. **Ashutosh K. Singh**, M. G. Yadava and R. Ramesh. High resolution monsoon records from land and the ocean: what have we learnt during the last decade? *Hydrology Review, V.22, p.177-190. 2007b*
- iv. Devesh K. Sinha and **Ashutosh K. Singh**. Late Neogene Planktic foraminiferal biochronology of ODP site 763A, Exmouth Plateau Southeast Indian Ocean. *Journal of Foraminiferal Research, v. 38, no. 3, p. 251–270. 2008*
- v. Manish Tiwari, **Ashutosh Singh** and Rengaswamy Ramesh. High-resolution monsoon records since Last Glacial Maximum: a comparison of marine and terrestrial paleo-archives from South Asia. In *Journal of Geological Research*.p.1-12, **2011**
- vi. Anil Kumar Gupta, Devesh K Sinha, **Ashutosh K Singh**, P Diwakar Naidu, Rajeev Saraswat and A K Rai, Indian contributions in the field of Paleooceanography (2006-2012). *Proc Indian natn Sci Acad 78 No. 3, p.313-319 September 2012.*
- vii. Neeraj Awasthi, Jyotiranjana S. Ray, **Ashutosh K. Singh**, Shraddha T. Band, Vinai K. Rai, Provenance of the late quaternary sediments in the Andaman Sea: Implications for monsoon variability and ocean circulation. *Geochemistry Geophysics Geosystems 09/2014. 2014*
- viii. Rohit Srivastava, R. Ramesh, Naveen Gandhi , R.A. Jani , **Ashutosh K. Singh**. Monsoon onset signal in the stable oxygen and hydrogen isotope ratios of monsoon vapor. *Atmospheric Environment. 108.p. 117-124. 2015.*
- ix. Shrivastava, Ankush., **Ashutosh K. Singh**, Devesh K.Sinha, Kaushik, Tushar., Singh, Vikram K., Mallick, Kirtiranjana Significance of *Globigerina bulloides* D' orbigny: A foraminiferal Proxy for Palaeomonsoon and Past upwelling records. *Journal of Climate Change, V. 2, p. 99-110, 2016*

x. **Ashutosh K. Singh**, Tiwari, Manish., Shrivastava, Ankush., Sinha, Devesh K. Sinha, and Ramesh, R Wind Strength variability in the western Arabian Sea since the Last Glacial Maximum: Southwest vs. Northeast Monsoon Modes. *Journal of Climate Change*, V. 2, p. 57-70, **2016**

xi. M. Midhun, P. R. Lekshmy, R. Ramesh, Kei Yoshimura, K. K. Sandeep, Samresh Kumar, Rajiv Sinha, **Ashutosh Singh**, and Shalivahan Srivastava. The Effect of Monsoon Circulation on the Stable Isotopic Composition of Rainfall. *Journal of Geophysical Research: Atmospheres*. Volume 123, Pages 5205-5221, **2018**.

xii. Kaushik, T., **Singh, Ashutosh. K.**, & Sinha, D. K. Late Neogene–Quaternary Planktic Foraminiferal Biostratigraphy and Biochronology from ODP Site 807A, Ontong Java Plateau, Western Equatorial Pacific. *Journal of Foraminiferal Research*, 50(2), 111–127. doi:10.2113/gsjfr.50.2.111, **2020**.

xiii. **Singh, Ashutosh. K.**, & Sinha, D. K. Northward Migration of Antarctic Polar Front during the Quaternary: Planktic Foraminiferal Record from Southeast Indian Ocean. *Journal of Climate Change*, Vol. 7, No. 1, pp. 11-22, **2021**

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

a. AGU Fall meeting, **Ashutosh K Singh**, Journal Geological Society of India, San Francisco, USA. vol.71, p.443-444. **2008**

b. Indian Colloquium on Micropaleontology and Stratigraphy Trichy. Sinha, Devesh K, **Ashutosh K Singh** and K Mallick. *Journal Geological Society of India*. **2010**.

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

i. Devesh K Sinha and **Ashutosh K Singh**: Episodes of weakening of the Leeuwin Current during Quaternary: Planktic foraminiferal and isotopic evidences. *In: Micropaleontology: Application in Stratigraphy and Paleoceanography. Alpha Sci. International, Oxford, UK., p. 332-350. 2007d.*

ii. Devesh K Sinha, **Ashutosh K Singh** Kirtiranjana Mallick and Vikram Pratap Singh *Holocene: definition and current stratigraphic status in the geological time scale: In : Holocene: Perspectives, Environmental Dynamics and Impact Events (Ed. B.S.Kotlia), Nova Science Publishers, USA. 2013.*

iii. Stable Isotopes: Tools for understanding past climatic conditions and their applications in Chemostratigraphy. Manish Tiwari, **Ashutosh K. Singh**, Devesh K. Sinha. *Chemostratigraphy Book: edited by RAMKUMAR, ISBN: 9780124199682, Chapter: 03, <http://dx.doi.org/10.1016/B978-0-12-419968-2.00003-0> 65, Elsevier Inc.*

2015.

- iv. Vikram Pratap singh, **Ashutosh k Singh**, Devesh k Sinha and Kirtiranjan Mallick, Planktic Foraminifera As Indicators of Paleooceanographic Changes in The Sulu Sea During Late Quaternary. Vistas in Geological Research (ISBN: 81-900907-0-4). U.U. Special Publication in Geology (15), , pp.132-139 **February 2017**
- v. Kirtiranjan Mallick , Bisanath barik , **Ashutosh k Singh** , Devesh k Sinha , vikram pratap singh and Tushar Kaushik, Application of mixed layer planktonic foraminiferal species as tracers of the ocean with special reference to eastern equatorial pacific. Vistas in Geological Research (ISBN: 81-900907-0-4). U.U. Special Publication in Geology (15), pp. 171-179. **February 2017**
- vi. Vikram Pratap Singh, **Ashutosh k. Singh**, Kirtiranjan Mallick And Devesh k. Sinha. Planktic foraminiferal diversity as the evidences of changing oceanographic conditions in the Sulu Sea during last 500 ky. Vistas in geological research Special publication in geology (17), , pp. 109-115, **February 2019**
- vii. Devesh K Sinha, **Ashutosh K, Singh** , Mallick K., Singh V P, Shrivastava A and Tushar Kaushik. Ocean Circulation in high northern latitudes and its influence on Arctic climate through ages. In Understanding present and Past Arctic environments: An Integrated Approach from climate change perspective. Edited by Neloy Khare, **Paperback ISBN: 9780128228692** (Accepted for publication)

Conference Organization/ Presentations (in the last three years)

List against each head(If applicable)

1. *Participation as Paper/Poster Presenter (During last 5 years)*

- **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**.
- **Northward migration of polar front in the Indian Ocean during Pleistocene: Planktic foraminiferal evidences.** Dynamics of Indian Ocean: Perspective and Retrospective, IO50-NIO Symposium. 30th Nov-4th Dec., **2015**
- Late Quaternary paleoceanographic changes in the western pacific warm pool: Evidence from geochemical and planktic foraminiferal records. Tushar Kaushik, **Ashutosh K. Singh**, and Devesh K. Sinha: conference on 'Quaternary Climate: Recent Findings and Future Challenges', at the National Institute of Oceanography, Goa. 28-30 **April 2016**

- Episodes of northward migration of ITCZ during Quaternary: Planktic foraminiferal evidences from the equatorial Indian Ocean. Vikram Pratap Singh, **Ashutosh K. Singh**, and Devesh K. Sinha: conference on 'Quaternary Climate: Recent Findings and Future Challenges', to be held from 28-30 April 2016 at the National Institute of Oceanography, Goa. **2016**
- BSS on A Critical Appraisal of the Indian Code of Stratigraphic Nomenclature: Related Issues, at Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi, 22-23 Feb, **2018**

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**
- 8. "Earth, Ocean and climate : methods and interpretation to study the past "**. National Webinar on " Proxies in Climate Reconstruction" on 27th November **2020**. Mohanlal Sukhadia University, Udaipur, Rajasthan 313001,India. **2020**

Research Projects (Major Grants/Research Collaboration)

- 1.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.(PI)**
2. 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. (PI)**

3. Late Neogene – Quaternary multi-proxy records of El Niño variability: Implication on tropical Indian Ocean paleoclimate and palaeoceanography” **MoES Paleoclimate Change Programme , Government of India (PI)**

4. Investigating the role of Inter-oceanic exchange on Indian Ocean Surface heat redistribution and its impact on Indian Monsoon during Quaternary: A multiproxy approach. **RUSA sponsored (Co PI)**

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

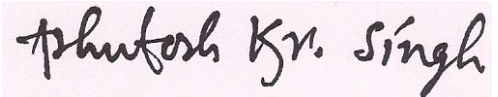
Memberships

- 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.
- Worked as an Examination superintendent in Department of Geology, Delhi University during 2010-11.

- Worked as Teacher coordinator to represent Department in Cultural program organized by Delhi University in 2013.
- Co Convener of **National Seminar on “Advances in Stratigraphy and Geochronology in Indian Sedimentary Basins and Road Ahead”** 2019, organized by Department of Geology, University of Delhi and attended by 75 delegates from all over the country including several scientists and professionals from Academia, Institutes and Oil Industries.

A handwritten signature in black ink on a light pink background. The signature reads "Phullesh K. Singh" in a cursive style.

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.