



Member of the First Indian Expedition to the Arctic (North Pole Region) in 2007, where Indian flag was hoisted and 15th August was celebrated for the first time in the history of India



Member of the Second Indian Expedition to the Arctic (North Pole Region) in 2008, Indian flag was hoisted and 15th August was celebrated for the first time in the history of India in Himadri (Indian Research Station)

Springer Hydrogeology

Dhruv Sen Singh *Editor*

The Indian Rivers

Scientific and Socio-Economic Aspects

The first book of its kind in the world which explains and contains 37 chapters on all major rivers of a country like India. Published from Springer in 2018

CURRICULUM VITAE OF DHRUV SEN SINGH

NAME Prof. Dhruv Sen Singh

DATE OF BIRTH 15th January 1966

CURRENT STATUS **Professor** (Since 2010)
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Lucknow- 226010, U.P., India
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ACADEMIC QUALIFICATIONS

Four First divisions with 77% marks in M.Sc. (Geology)
Ph.D. in Geology
Six Scholarships and Fellowships from High School up to Ph.D with NET (CSIR).

MILESTONE ACHIEVEMENTS

Member of the First Indian Expedition to the Arctic (North Pole Region) in 2007, Hoisted the National Flag for the First Time in this region in the history of India.

Member of the Second Indian Expedition to the Arctic (North Pole Region) in 2008: Hoisted the National Flag for the First Time in the **Himadri**, the Indian Research Station in Arctic.

AWARDS/ HONORS

(Recognized as Excellent Teacher and Outstanding Scientist by the Government where serving by conferring several awards)

Vigyan Ratna Award of 2008-2009 in 2010 by Council of Science and Technology, Government of Uttar Pradesh, Lucknow.

Sikshak Shree Award in 2013 by Department of Higher Education, Government of Uttar Pradesh, Lucknow.

Saraswati Samman in 2014 by Department of Higher Education, Government of Uttar Pradesh, Lucknow.

Best Teacher/ Scientist by many NGO's, Colleges and National News Dailies.

Invited by International Glaciological Society on 22 June, 2010 at Hokkaido University, Japan. Only member from India.

Awarded by University of Lucknow for good research publications in 2017 and 2018.

Former Chairman, Indian Society of Remote Sensing, Lucknow Chapter, Lucknow.

Member of International Geological Correlation Programme IGCP: 581 since 2010.

Illustrious Alumni Award by Government Inter College, Deoria, U.P. in 2015.

Astitwa Samman by Vikalp Organization in June 2015.

Excellence Award by Lucknow Institute of Environmental Studies in December, 2008.

EXPERIENCE

Teaching and Research

28 years

Ph.D. Supervised 10

5 Research Projects- 2-DST, GOI, New Delhi,
1-AMD-BRNS, Hyderabad,
2-Centre of Excellence, Govt. of U.P.

Publications (Annexure-1)

Research papers published	67
Papers in International and national Conferences	93
Articles for social awareness	>100
Books	7
From International Publishers	4
For Scientific and social awareness	2

Climate Change and Geological Processes edited by **D.S. Singh** and N.L. Chhabra from **Macmillan Publishers** in 2011, pp 294.

Chhoti Gandak River Basin, Ganga Plain, India: An account of Fluvial Dynamics and Subsurface Stratigraphy by A.K. Awasthi and **D.S. Singh** from **LAP Lambert Academic Publishing, Germany** in 2012, pp112.

Hydrogeochemistry in Chhoti Gandak River Basin, Ganga Plain: A Retrospective Study by V. Bhardwaj and **D.S. Singh** from **LAP Lambert Academic Publishing, Germany** in 2012 pp84.

Indian Rivers: Scientific and Socio-Economic Aspects edited by Dhruv Sen Singh from **Springer Publisher 2018** having 37 chapters on all major rivers of India contributed by Professors of IIT, Universities and Scientists of Research Institutions. (**The first book in the world, which contain chapters on all major rivers of a country**).

Three for Scientific and Social awareness

Geopanaorama in 2009 edited book, pp 57

Diksha in 2017 edited book of Special Lecture Series, pp 67

**Diksha: Atal Smriti edited book of special lectures on Atal Ji,
pp 78**

Academic (Annexure 2)

Regular resource person/Mentor to

Academic Staff College (UGC) of various Universities

Inspire Camps (DST) organized by various Institutions

Regional Centre for Urban and Environmental Studies

Regional Science Centre, Lucknow

U.P. Academy Management, Lucknow

U.P. Disaster Management Authority, Lucknow

Regular invited/ keynote speaker on

Environment day

Science day

Earth Day

Remote Sensing Day

Ground Water Day

**Key note speaker/ Invited lectures / Session chaired at about 36
international and national Conferences/Seminars**

Administrative

Present

Director

Institute of Hydrocarbon Energy and Georesources, LU (Since
2017)

Chief

Lucknow University Employment Bureau

Member

Academic Council, LU, Lucknow

National PG College, Lucknow

Member

Faculty Board and Board of Studies in LU, Lucknow

Board of Studies of Geology Dept, Kumaun University, Nainital

Former

Dean

Students Welfare (2018-2019)

Controller of Examination

University of Lucknow (2019)

Director

Planning and Development Board, LU (2016-2018)

Coordinator

B.Ed. 2019 examination test at Lucknow

B.Ed. 2018 examination test at Lucknow

B.Ed. 2017 examination test and admission counseling at Lucknow 2

In charge

Post Graduation test and evaluation 2019 of LU, Lucknow

Post Graduation test and evaluation 2018 of LU, Lucknow

Post Graduation test and evaluation 2017 of LU, Lucknow

Additional Proctor

University of Lucknow (2013-2016)

Assistant Dean Student Welfare

University of Lucknow (2010-2013)

Assistant Proctor

University of Lucknow (2006-2010)

Assistant OSD Semester Examinations

Geology Dept, University of Lucknow (2007 – 2013)

Deputy Coordinator, Geography

University of Lucknow (2003-2005)

Organizational

Convener

Special lecture Series for the welfare of students, 2019

Coordinator,

Ministry of Earth Sciences, New Delhi, PAMC meeting at LU on 25
May, 2018.

Convener

Expert meet and Conference on Climate Change and Environmental
Sustainability: Records from Poles to Tropics in 2014.

Chairman

Indian Society of Remote Sensing (Lucknow Chapter, 2010-2012).

Convener

Conservation and Consensus on Ground Water, 2012.

Organizing Secretary

Conference on Geological Processes and Climate Change, 2009.

Involved in organizing Symposia/Seminar at National level.

Involved in organizing Exams such as CPMT, NET (UGC, CSIR), B.Ed.
etc.

Involved in organizing the University Convocations.

MEMBERSHIP OF SCIENTIFIC SOCIETIES/ INSTITUTIONS

Member

International Association of Sedimentologist

International Geological Correlation Programme-581

Life Fellow

Geological Society of India

Palaeontological Society of India

Indian Society of Remote Sensing

Indian Society of Glaciological Sciences

Life member

Indian Science Congress Association

Society of Earth Scientist

RESEARCH INNOVATIONS

Described that the rapid rate of recession of the **Gangotri Glacier** is controlled by local characteristics apart from Global warming and Climate Change.

There is no threat to the Gangotri Glacier as proposed by IPCC in its fourth report in 2007.

Explained that the melting of Glaciers and Climate change is a natural process and had taken place earlier during the history of the earth much before the evolution of man on this planet earth.

Evolved new concepts in **Gangotri Glacier** area for **Retreat, Paraglacial Processes**

Develop new concept for the Modification of Landforms in a glaciated terrain for the first time in **Gangotri Glacier region**, which was reconfirmed in **Kedarnath** area also.

Develop and evolve the glacial facies for the first time

Identification of **Lateral Erosion** as a new river born hazard is an addition to the International knowledge of natural hazard
Glacier and River Analysis in Arctic region

Associated in developing the **Sedimentation Model** of the Ganga Plain.

Associated in developing the **Palaeocurrent Pattern** and bed form migration in channel bar deposits of rivers.

Associated in developing the sedimentary facies of channel and interchannel deposits of the Ganga Plain.

Evolve the Monsoon Variability and major Climate events for last thousand years in the Ganga Plain.

SCIENCE AND SOCIETY

Try to presents the scientific facts behind natural-events and edited two books Geopanaorama in 2009 and Diksha in 2017 for knowledge dissemination and social awareness on scientific issues.

The Indian Rivers: Scientific and Socio-economic aspects” has been edited by Springer in 2018 which contain chapters on all major rivers of India and explains socio-economic importance and their adjustment with the climate change.

Deliver the lectures and also contribute to the print/electronic media for the social, scientific awareness and popularization of science in the society.

Whenever fear, mystification and panic are created in the society on any scientific issues, try to remove it through above means.

Deliver invited/key note lectures on Science Day, Earth Day, Environment Day, Ground Water Day, Ozone Day, Education Day, Remote Sensing Day etc for social awareness.

Serve as a resource person/subject expert in U.P. Academy Lucknow, Disaster Management, Unicef, Directorate of Family Planning Lucknow, Regional Centre for Urban and Environment Lucknow, Inspire Camp of DST and academic staff colleges of BHU Varanasi, KU Nainital, DDUU Gorakhpur, Lucknow.

After the fourth report of IPCC in 2007, when panic was created in the society that the Gangotri Glacier will melt and disappear up to 2035 due to anthropogenically induced global warming and climate change. To remove this panic an article entitled “Gangotri from here to eternity” was published in Times of India in all India editions from 14-28 March 2008. And an article “Climate Change and Global warming: Natural/Anthropogenic” in Hindustan Times on 15 June, 2008. A book “Geopanorama” was also published in 2009 which is distributed free of cost for the popularization of science. The first chapter of this book is “Climate Change and Global Warming: Natural/Anthropogenic”. Later on IPCC retract the claim on 20 January 2010. It was highlighted in the Times of India on 22 January, 2010 that IPCC vindicate Lucknow University Claim.

Trying our best to apply Geology for human welfare.

PUBLICATIONS OF DHRUV SEN SINGH

• Research Papers	67
International Journals	19
National Journals	22
National ISBN/ISSN Journals	05
Book Chapters (International and National)	17
Conference Proceedings	02
Special Publication of GSI	02
• Books	07
• Papers presented in International and National Conferences	111
• Published in magazines and news papers for social awareness	>100

- **RESEARCH PAPERS**

- **Singh, D. S.**, Dubey, C.A., Kumar, D., Vishwakarma, B., Singh, A.K., Tripathi, A., Gautam, P.K., Bali, R., Agarwal, K.K., Sharma, R., **2019**. Monsoon variability and major climatic events between 25 and 0.05 ka BP using sedimentary parameters in the Gangotri Glacier region, Garhwal Himalaya, India. **Quaternary International**, <https://doi.org/10.1016/j.quaint.2019.02.018>.
- **Singh, D. S.**, Fluvial Geomorphology an Indian Perspective, **2019**. Geography and You, 19 (17), 4-8.
- **Singh, D. S.**, Dubey, C.A., Kumar, D., Kumar, P., Ravindra, R., **2018**. Climate events between 47.5 and 1 ka BP in glaciated terrain of the Ny-Alesund region, Arctic, using geomorphology and sedimentology of diversified morphological zones. **Polar Science**, <https://doi.org/10.1016/j.polar.2018.05.003>.
- Govil, P, Mazumder, A., Ram, R., **Singh, D. S.**, Azharuddin, S., **2018**. Melt water flux and climate change record of last 18.5 ka from Schirmacher Oasis, East Antarctica. **Polar Science**, <https://doi.org/10.1016/j.polar.2018.05.001>.

- Goel, P., Saxena, A., **Singh, D. S.**, Verma, D., **2018**. [Impact of rapid urbanization on water quality index in groundwater fed Gomati River, Lucknow, India](#). **Current Science**, 114 (3), 650-654.
- Agarwal, K.K., Shah, R.A., Achyuthan, H., **Singh, D.S.**, Srivastava, S., Khan, I., **2018**. Neotectonic Activity from Karewa Sediments, Kashmir Himalaya, India, [Geotectonics](#), 52(1), doi/ 10.1134/S0016852118010028.
- Kumar, D., **Singh, D. S.**, Prajapati, S.K., Khan, I., Gautam, P., Vishwakarma, B., **2018** Morphometric parameters and neotectonics of Kalyani River Basin, Ganga Plain, Remote Sensing and GIS Approach. **Journal Geological Society of India**, 91, 679-686.
- Singh, D. S. **2018**. Concept of Rivers: An Introduction for Scientific and Socio-Economic Aspects. The Indian Rivers: Scientific and Socio-economic aspects edited by DhruvSen Singh, **Springer publication**, 1-24.
- **Singh, P.**, Singh, D.S., Shukla, U.K., **2018**. Ganga: The Arterial River of India. The Indian Rivers: Scientific and Socio-economic aspects edited by DhruvSen Singh, **Springer publication**, 75-92.
- Nishat and **Singh, D.S.** **2018**. The Yamuna River. The Indian Rivers: Scientific and Socio-economic aspects edited by D.S.Singh, **Springer publication**, 123-134.
- Tangri, A.K., and **Singh, D.S.**, Dubey, C.A. **2018**. Gomati River: The Lifeline of Central Ganga Basin of Uttar Pradesh. The Indian Rivers: Scientific and Socio-economic aspects edited by D.S.Singh, **Springer publication**, 135-150.
- Thakur, B., and **Singh, D.S.** **2018**. Rapti River: Odyssey from Nepal to India. The Indian Rivers: Scientific and Socio-economic aspects edited by D.S.Singh, **Springer publication**, 165-176.
- Awasthi, A.K., Bhardwaj, V., Prajapati, S.K., **Singh, D.S.**, **2018**. The ChhotiGandak River: Parinirvan Place of Gautam Buddha. The Indian Rivers: Scientific and Socio-economic aspects edited by D.S.Singh, **Springer publication**, 177-190.
- **Singh, D.S.** **2018**. The Great Gandak River: Place of First Republic of the World. The Indian Rivers: Scientific and Socio-economic aspects edited by D.S.Singh, **Springer publication**, 199-208.

- **Singh, D.S.**, Tiwari, A.K. and Gautam, P, **2018**. The BurhiGandak River: Highly Sinous Tributary of Ganga. The Indian Rivers: Scientific and Socio-economic aspects edited by D.S.Singh, **Springer publication**, 209-220.
- **Singh, D. S.**, Tangri, A.K., Kumar, D., Dubey, C.A., Bali, R. **2017**. Pattern of Retreat and related morphological zones of Gangotri Glacier, Garhwal Himalaya, India. **Quaternary International**, 444: 172-181,.doi.org/10.1016/j.quaint.2016.07.025.
- Saxena, A and **Singh, D. S.** **2017**. Multiproxy Records of Vegetation and Monsoon Variability from the lacustrine sediments of Eastern Ganga Plain since 1350 A.D. **Quaternary International**, 444: 24-34, doi.org/10.1016/j.quaint.2016.08.003.
- Bali, R., Chauhan, M.S., Mishra, A.K., Ali, N.S., Tomar, A. P., Khan. I., **Singh, D. S.** and Srivastava, P. **2017**.Vegetation and climate change in the temperate-subalpine belt of Himachal Pradesh since 6300 cal. yrs. BP, inferred from pollen evidence of Triloknathpalaeolake. **Quaternary, International**, 444: 11-23, doi.org/10.1016/j.quaint.2016.07.
- Nag, D., Phartiyal, B., **Singh, D. S.**, **2017**. Sedimentary characteristics of palaeolake deposits along the Indus River valley, Ladakh, Trans-Himalaya: Implications for the depositional environment. **Sedimentology**, 63 (6), 1765-1785, doi: 10.1111/sed.12289.
- Bali, R., Khan, I, Sangode,,S.J., Mishra, A.K., Ali, N.S., Singh, A.K., Tripathi, J.K., **Singh, D.S.** and Srivastava, P., **2017**. Mid-to late Holocene climate response from the Triloknathpalaeolake, Lahaul Himalaya based on multiproxy data. **Geomorphology**, 284, 206–219, DOI: 10.1016/j.geomorph.2016.10.028.
- Ghosh, R., Sehgal, R.K., Srivastava, P., Shukla, U.K., Nanda, A.C., **Singh, D. S.**,**2016**. Discovery of Elephas cf. namadicus from the Late Pleistocene Strata of Marginal Ganga Plain. **Journal Geological Society of India**, 88, 559-568.
- **Singh, D. S.**, Agnihotri, R. **2016**. Climate Change in the Indian perspective and its societal impacts. **Current Science**, 110 (6), 964.
- **Singh, D. S.**, Gupta, A.K., Sangode, S.J., Clemens, S.C., Prakasam, M., Srivastava, P., Prajapati, S.K. **2015**. Multiproxy record of monsoon variability from the Ganga Plain during 400-1200 A.D. **Quaternary International** 371: 157-163.
- Kisku, G.C., Markandeya, Shukla, S.P., **Singh, D. S.**, Murthy, R.C. **2015**. Characterization and adsorptive capacity of coal fly ash from aqueous solutions of

disperse blue and disperse orange dykes, **Environmental Earth Science**, 10.1007/s12665-015-4098-z.

- **Singh, D.S., 2015.** Climate Change: Past Present and Future. **Journal Geological Society of India**, 85, 634-635.
- **Singh, D.S., Prajapati, S.K., Singh, P., Singh, K., Kumar, D. 2015.** Climatically Induced Levee Break and Flood Risk Management of the Gorakhpur Region, Rapti River Basin, Ganga Plain, India. **Journal Geological Society of India**, 85, 79-86.
- **Singh, D. S. 2014.** Surface Processes during flash floods in the glaciated terrain of Kedarnath, Garhwal Himalaya and their role in the modification of landforms, **Current Science**, 106 (4), 594-597.
- **Singh, D.S., Prajapati, S.K., Kumar, D. 2014.** Climate Change, Rivers and Water Conservation in the Ganga Plain. Conference proceedings on **Water Conservation by Central Ground Water Board**, Lucknow, 1-14.
- **Singh, D. S. 2014.** Expert meet and Conference on Climate Change and Environmental Sustainability: Records from Poles to Tropics. **Journal Geological Society of India**, 84 (5), 621.
- **Singh, D.S., Prajapati, S.K., Kumar, D., Awasthi, A., Bhardwaj, V. 2013.** Sedimentology and channel pattern of the Chhoti Gandak River, Ganga Plain, India, **Gondwana Geological Magazine**, 28 (2), 171-180.
- **Singh, D. S. 2013.** Causes of Kedarnath Tragedy and Human Responsibilities. **Journal Geological Society of India**, 82 (3), 303-304.
- **Singh, D. S. 2013.** Snow Melt Ephemeral Streams in the Gangotri Glacier Area, Garhwal Himalaya, India. Holocene: Perspectives, Environmental Dynamics and Impact Events eds B.S. Kotlia, **NOVA Publisher, USA**, pp 157-164.
- **Singh, D. S. and Awasthi, A. 2011.** Implication of Drainage Basin Parameters of Chhoti Gandak River, Ganga Plain, India. **Journal Geological Society of India**, 78 (2): 370-378.
- **Singh, D. S, and Ravindra R. 2011.** Control of glacial and fluvial environments in the Ny-Alesund region, Arctic. **Mausam**, 62 (4): 641-646.
- Singh, V., Farooqui, A., Mehrotra, N.C., **Singh, D. S.**, Tewari, R., Jha, N., Kar, R. **2011.** Late Pleistocene and Early Holocene climate of Ny-Alesund, Svalbard

- (Norway): A study based on biological proxies. **Journal Geological Society of India**, 78 (2): 109-116.
- Trivedi, A., **Singh, D. S.**, Chauhan, M. S., Arya, A., Bhardwaj, V., Awasthi, A. **2011**. Vegetation and Climate change around Ropanchaparatal in Deoria district, Central Ganga Plain during the last 1350 years. **Paleontological Society of India**, 56 (1): 39-43.
 - **Singh, D. S.** and Awasthi, A. **2011**. Natural Hazards in the Ghaghara River Area, Ganga Plain, India, **Natural Hazards**, 57: 213-225, (DOI: 10.1007/s11069-010-9605-7).
 - Bhardwaj, V., **Singh, D. S.** **2011**. Surface and Ground Water Quality Characterization of Deoria District, Ganga Plain, India. **Environmental Earth Sciences**, 63: 383-395, (DOI: 10.1007/s12665-010-0709-x).
 - **Singh, D. S.**, and Ravindra R. **2011**. Geomorphology of the MidreLoven Glacier, NyAlesund, Svalbard, Arctic. **Geological Processes and Climate Change** edited by Singh and Chhabra, Macmillan Publishers India Ltd. pp 269-281.
 - Awasthi, A. and **Singh, D. S.** **2011**. Shallow Subsurface Facies of ChhotiGandak River Basin, Ganga Plain, India. **Geological Processes and Climate Change** edited by Singh and Chhabra, Macmillan Publishers India Ltd. pp 223-234.
 - **Singh, D. S.**, Awasthi, A., and Nishat **2010**. Impact of Climate Change on the Rivers of Ganga Plain. **International Journal of Rural Development and Management Studies**, 4 (1): 1-8.
 - Bhardwaj, V., **Singh, D. S.**, and Singh, A.K. **2010**. Hydrogeochemistry of Ground water and anthropogenic control over dolomatization reaction in alluvial sediments of the Deoria district: Ganga Plain India. **Environmental Earth Sciences**, 59:1099-1109.
 - Bhardwaj, V., **Singh, D. S.**, and Singh, A.K. **2010**. Water Quality of the ChhotiGandak River using Principal Component Analysis, Ganga Plain, India. **Journal of Earth System Sciences**, 119 (1):117-127.
 - **Singh, D. S.**, Awasthi, A., Bhardwaj, V., and Singh P.K. **2010**. Conjunctive use of surface and ground water in ChhotiGandak river basin, Ganga Plain, India. In Conference Proceedings of **Central Ground Water Board on Conjunctives use of Surface and Ground Water**, pp 111-124.

- Bhardwaj, V., **Singh, D. S.**, and Singh, A.K. **2010**. Environmental repercussions of cane-sugar industries on the ChhotiGandak river basin, Ganga Plain, India. **Environmental Monitoring and Assessment**, 171: 321-344. (DOI 10.1007/s10661-009-1281-2).
- **Singh, D. S. 2010**. Fire, Sediment and its Impact on Environment. In third Fire and **Disaster Management** ,pp 82-86.
- Kumar, A. Bhardwaj, V., Tiwari, J.N., Patel, D.K., **Singh, D. S.**, Singh, R.L., Kalita, J., Misra, U.K., Babu, G.N. **2010**. Mercury Exposure in Sporadic Amyotrophic Lateral Sclerosis Patients from Ganga Plain Region in India: A Retrospective Study. **Toxilogical and Environmental Chemistry**, 92 (2): 377-385.
- **Singh, D. S.**,Awasthi, A., and Bhardwaj, V. **2009**. Control of Tectonics and Climate on ChhotiGandak River Basin, East Ganga Plain, India. **Himalayan Geology**,30 (2): 147-154.
- **Singh, D. S.**, and Awasthi, A. **2009** Impact of Landuse and Landscape Change on Environment. **Urban Panorama**, VIII (2): 72-78.
- Singh, P. and **Singh, D. S. 2009**. Flood and its management in the downstream part of the Rapti River, Ganga Plain, Gorakhpur. The **National Geographical Journal of India**, 55 (4): 665-74.
- **Singh, D.S. 2009**. Rivers of Ganga Plain: Boon/Bane.E-Journal **Earth Science India**, pp 1-10.
- Singh, P., **Singh, D. S.**, Singh, K. **2009**. Flood and its relationship to developmental activities with special reference to downstream part of the Rapti river basin, Gorakhpur. **The North Indian Geographical Journal**, 39 (3): 127-132.
- **Singh, D.S. 2009**. Climate Change and Global Warming: Natural/Anthropogenic.In: Geopanorama, An Introduction to **Quaternary Geological Processes Natural hazards and Climate Change** (Ed. by Chhabra, N.L. et al.), pp 1- 4.
- Bhardwaj, V., **Singh, D. S.**, and Awasthi, A. **2009**. Environment Modeling and River Water Quality of Little Gandak River, Deoria District, Ganga Plain, India. **Bioinformatics, Biotechnology and Bio-Remediation** (Ed. by B.N. Pandey, *et al.*), Sarup Book Publishers Pvt. Ltd. New Delhi, pp 129-145.

- Bhardwaj, V. Awasthi, A. **Singh, D.S.** Kulshrestha, A.K. and Arya, A.K. **2009.** Concept, Mitigation and Management of Natural; Hazards. In: Geoporama, An Introduction to **Quaternary Geological Processes Natural hazards and Climate Change** (Ed. by Chhabra, N.L. et al.), pp 48-53.
- Bhardwaj, V. and **Singh, D. S.** **2008.** Water crisis and Water Quality Management. **International Journal of Rural Development and Management Studies**, 2 (1): 49-65.
- **Singh, D.S. 2007.** Flood Mitigation in Ganga Plain. Disaster Management in India. In: **Disaster Management in India** (Ed. N. Rai and A.K. Singh), New Royal Book Company, Lucknow, pp 167-179.
- Bhardwaj, V. and **Singh, D. S.** **2007.** Rain water harvesting: An Integrated Approach. **Indian Journal of Development Research and Social Action**, 3 (2):233-248.
- **Singh, D.S. 2007.** Concept, Management and Mitigation of Disaster. U.P.Fire-2007 by Institute of Fire Engineers, Lucknow, pp 18-21.
- **Singh, D. S.** and Singh, I. B. **2005.** Facies Architecture of the Gandak Megafan, Ganga Plain, India. **Paleontological Society of India Spl. Pub** No.-2: 125-140.
- **Singh, D. S.** **2004.** Late Quaternary Morpho-Sedimentary Processes in the Gangotri Glacier Area, Garhwal Himalaya, India. **GeolSurv India Spl. Pub.** No.80: 97-103.
- **Singh, D. S.** and Mishra. A. **2002.** Gangotri Glacier System, Garhwal Himalaya: An analysis using GIS technique. **Aspects of Geology and Environment of the Himalaya.** Edited by Pant, C. C. and Sharma, A. GyanodayaPrakashan, Nainital, India, pp 349-358.
- **Singh, D. S.** and Mishra. A. **2002.** Role of Tributary glaciers on landscape modification in the Gangotri Glacier area, Garhwal Himalaya, India. **Current Science**, 82 (5):101-105.
- **Singh, D. S.** and Mishra, A. **2001.** Gangotri Glacier characteristics, retreat and processes of sedimentation in the Bhagirathi valley. **Geological Survey of India Spl. Pub.** No.65 (III): 17-20.
- Shukla, U. K., Singh, I. B., Srivastava P. and **Singh, D. S. 1999.** Palaeocurrent pattern in Braid bar and Point bar deposits: Examples from Ganga River India. **Journal of Sedimentary Research**, 69(5): 992-1002.

- Singh, I. B., Srivastava, P., Sharma, S., Sharma, M., **Singh, D. S.**, Rajgopalan, G. and Shukla, U. K. **1999**. Upland interfluvial (Doab) deposition: Alternative model to muddy overbank deposits. **Facies**, 40:197-210.
- Kumar, S., Singh, I. B., Singh, M. and **Singh, D. S.** **1995**. Depositional pattern in upland surfaces of Central Gangetic Plain near Lucknow. **Journal Geological Society of India**, 46:545-555.

BOOKS (three books for scientific and social awareness)

- **The Indian Rivers: Scientific and Socio-economic aspects, 2018, Springer publication edited volume containing 37 chapters on all major rivers of India contributed by professors of IIT, Universities and scientists of Research Institutions, pp 551.**
- **Geological Processes and Climate Change 2011**, edited by **D.S. Singh** and N.L.Chhabra, **Macmillan Publishers India Ltd.** ,pp 294.
- **Chhoti Gandak River Basin, Ganga Plain, India: An account of Fluvial Dynamics and Subsurface Stratigraphy 2012.** A.K. Awasthi and **D.S. Singh**, **LAP Lambert Academic Publishing, Germany**, pp112.
- **Hydrogeochemistry in Chhoti Gandak River Basin, Ganga Plain: A Retrospective Study 2012.** V. Bhardwaj and **D.S. Singh**, **LAP Lambert Academic Publishing, Germany**, pp.84.
- **Geopanaorama, 2009** edited book **for the Social Awareness**,pp 57.
- **Diksha, 2017** edited book for the **Social Awareness**, pp 67.
- **Diksha: Atal Smriti, 2018** edited book of special lectures on Atal Ji, pp 78

KEY NOTE AND INVITED LECTURES

- Invited keynote lecture on 170th Foundation Day of Geological Survey of India on Climate Change at GSI, Northern Region, Lucknow, **5 March, 2020.**
- Invited keynote lecture on Natural Hazard and Climate Change at UP RSAC, Lucknow, **6 March, 2020.**
-
- Invited inaugural keynote lecture in **National Conference** on Climate Change and Developing Countries at MG Kashi Vidyapith, Varanasi on **4 February, 2020 during Centenary year.**
- Invited key note lecture in **International Conference** on Politics of Climate Change at St. Xavier College, Mumbai on **29 January, 2020 during 150 years of celebration.**
- Delivered the lecture on Time management during Examination organized by Education department and Hindustan Media at Nishatganj Government Inter college, Lucknow on 22 January, 2020.
- Special lecture on Go Green and Conservation of Environment at IIT Roorkee Alumni function at PWD, Lucknow on 15 December, 2019
- Special lecture on Conservation of Environment at Kendriya Vidyalav, IIM, Lucknow on 17 December, 2019
- Special Lecture Water Conservation at Saraswati Dental College, Lucknow on **22 October, 2019.**
- Special Lecture in **International Conference** on Modern Trends in Climate Change at Navyug Kanya Mahaviudyalaya, Lucknow on **8 September, 2019.**
- Special Lecture in **Minozilla** by Psychology Department, at University of Lucknow, **30 August, 2019.**
- Special Lecture in **International Conference** on Modern Trends in Civil Engineering for Sustainable Development at Shri Ramswaroop Memorial University on **2 March, 2019.**
- Special Lecture in **Arctic, Antarctica and Glaciers Meet** on **27 February, 2019 at India International Centre, New Delhi.**
- Special Lecture on Air Pollution in seminar by Club of Lucknow and Co-Chaired the session on **12 January, 2019.**
- Invited lecture on IIT Roorkee, Alumnae meet on **16 December 2018.**

- Chief Guest and invited lecture on **International Conference** on Sustainable Development Strategies and Emerging Trends at Neta Ji SCBGG PG College, Lucknow, **16-17 November, 2018.**
- Unity Day special lecture and **Chief Guest** at Kalicharan PG College, Lucknow, **31 October, 2018.**
- **Foundation day lecture** of CGES at National Botanical Research Institute, Lucknow on **8 July 2018.**
- **Environment Day lecture** at Regional Head Office, State Bank of India, Lucknow on ‘**Beat Plastic Pollution**’, **5 June 2018**
- **Annual Function day lecture** at Rana Pratap PG College, Sultanpur on **February 4, 2018**
- **Tamasa River Clean and Green event lecture** at Azamgarh on **September 17, 2017**
- **Environment Day lecture** at Indira Gandhi Pratishthan, Lucknow on ‘Connecting People with the Nature **on 5 June, 2017 by Forest Department.**
- **Environment Day lecture** at Reserve Bank of India, Lucknow on ‘Connecting People with the Nature **on 5 June, 2017**
- **165th Foundation Day Lecture** in GSI, Northern Region, Lucknow on March 2, 2016 on Evolution of Ganga Plain.
- International Seminar on Environmental Protection at Shakunatal University at Lucknow By C-Carbons on 24-4-2015.
- Lecture on Impact of climate change on glaciers and rivers and its consequences on Society at **Indian Science Congress at Mumbai on 6th January, 2015** in special session on Climate Change.
- Key note lecture on Climate Change in an International conference at RML Law University, Lucknow **29th March, 2014.**
- Disasters and its Mitigation at **Institutions of Engineers India**, U.P. State Centre, Lucknow on **8 March, 2014.**
- Natural Calamities and its Role in the Modification of Landscape in the Himalaya in International Seminar on **HOPE 2013** at Kumaun University, Nainital **on 12-14 Septemebr, 2013.**
- Nature, Man and Disasters in Glaciated Terrain of Himalaya in National Seminar on Himalayan Devastation and Eco Balancing at Malviya Hall University of Lucknow **on 31**

August, 2013.

- Kedarnath Disaster and Sustainability in Symposium on Building and Ecologically Sustainable Society at **BBA University on 16 August, 2013.**
- Climate Change and misconception of data in Gangotri Glacier, Garhwal Himalaya, India in **International Third Pole Workshop** at WIHG, Dehradun, on **1-3 April, 2013.**
- Lecture on **Biodiversity Day** on Climate Change and marine Biodiversity at Ram Manohar Law University, Lucknow by **UP state Biodiversity Board** on **22nd May, 2012.**
- Key note lecture on climate change in a national conference at Geography Department, **Gorakhpur University, Gorakhpur** on **29th January, 2012.**
- Gangotri Glacier in an **International Conference (IMHG)** at WIHG, Dehradun on **2-5 November, 2011.**
- Disappearing Glaciers and Social Concern at WIHG, Dehradun on **25-26 September, 2011.**
- Arctic Glaciers on Science of Climate Change and Earth Sustainability at Lucknow by **Society of Earth Sciences India** on **12-14 September, 2011**
- Impact of Climate Change on Gangotri Glacier at **Hokkaido University, Sapporo, Japan** organized by **International Glaciological Society** on **22nd June, 2010.**
- Climate Change: Myth/Reality at National Conference on Natcon in **Physics Department, University of Lucknow** on **23rd December 2009.**
- Facies Architecture and Control of Sedimentation in the East Ganga Plain at Wadia Institute of Himalayan Geology, Dehradun by **Indian Geophysical Union** on **6th October, 2009.**
- Climate Change and its impact on Society, by northern chapter, **Geological Society of India**, at Birbal Sahni Institute of Palaeobotany, Lucknow on **7th August, 2009.**

RESOURCE PERSON AND MENTOR

- **Regular resource person to UGC, Refresher and Orientation courses for ASC at LU Lucknow.**
- **Regular resource person to DST, Inspire Camp.**
- **Regular Resource person to U.P. Academy, Lucknow.**

- **Regular Resource person to U.P. SDMA, Lucknow.**
- **Regular Resource person to U.P. DDIRD, Lucknow.**
- **Inspire programme DST lecture on Climate Change at IISER, Pune on 15th May, 2014.**
- **Refresher Course at Geology Department, BHU, Varanasi, December, 2013.**
- **Refresher course at Academic Staff College, Kumaun University, Nainital, on 21 and 22 November, 2013.**
- **Subject Expert in Uttarakhand Science Congress, CST on 21-23 November, 2013**
- **DST, New Delhi Inspire programme lecture on Climate Change at MGPG, Gorakhpur University, Gorakhpur on 14th October, 2013.**
- **Inspire programme DST lecture on Climate Change at GBPG College, Kushinagar, Gorakhpur University on 25th February, 2013.**
- **Workshop on Managing Disasters in Urban Areas by Regional Centre for Urban and Environmental Studies, Ministry of Urban Development, GOI, Lucknow on 23rd February, 2013.**
- **Refresher Course at Botany Department, University of Lucknow, Lucknow on 7th February, 2013.**
- **Refresher Course at Zoology Department, University of Lucknow, Lucknow on 25th January, 2013.**
- **Training programme for administrator on Climate Change at U.P. Academy, Aliganj, Lucknow 5th December, 2012.**
- **Training programme for administrator on Disaster management at U.P. Academy, Aliganj, Lucknow on 3rd December, 2012.**
- **Inspire programme, DST lecture on Climate Change at GBPG College, Kushinagar, Gorakhpur University on 26th October, 2012.**
- **Concepts of Remote Sensing in training programme at Geography department, University of Gorakhpur on 18th September, 2012.**
- **Science in Hindi, workshop organized by Hindi Department, University of Lucknow on 1-2 September, 2012.**
- **Lecture on climate change in the training programme at Central School, Gomati Nagar**

Lucknow on **20th June, 2012.**

- Training programme for administrator on Risk reduction and Disaster management at U.P. Academy, Aliganj, Lucknow on **21st May, 2012.**
- Lecture on Natural Hazards at Directorate of population and Family Planning, U.P., Lucknow on **7th February, 2012.**
- Refresher Course at **Zoology Department, University of Lucknow**, Lucknow on **24th January, 2012.**
- Short term course of Academic Staff College at University of Lucknow, Lucknow on **5th January, 2012.**
- Short term course of Academic Staff College at University of Lucknow, Lucknow on **17th and 25th November, 2011.**
- Inspire programme, **DST** lecture on Climate Change at **Integral University, Lucknow** on **17th November, 2011.**
- Refresher course at Academic Staff College, **Kumaun University, Nainital**, on **12th September, 2011.**
- Inspire programme of **DST** lecture on Climate Change at GBPG College, Kushinagar, **Gorakhpur University** on **27th May, 2011.**
- Inspire programme of **DST**, New Delhi lecture on Climate Change at SVPG College, **Gorakhpur University** on **17th March, 2011.**
- Chaired a session and key note address on managing disasters in Urban Areas at Regional Centre for Urban and Environmental Studies, Ministry of Urban Development, GOI, Lucknow on **29-30 July, 2011.**
- Chaired a session and key note address on Challenges of Higher education beyond 2010 at GGPG college, Ghazipur on **27th February, 2011**
- Training programme on Natural Hazards in India at Directorate of population and Family Planning, U.P., Lucknow on **21st February, 2011.**
- Training programme for administrator on Risk reduction and Disaster management at U.P. Academy, Aliganj, Lucknow on **15th February, 2011.**
- Inspiring programme, **DST** lecture on Understanding Planet Earth at **Kumaun University Nainital** on **25th December, 2010.**
- Training programme for administrator on Risk reduction and Disaster management **at U.P.**

Academy, Aliganj, Lucknow on **16th December, 2010.**

- Climate Change and Water Resource Management, at Regional Centre for Urban and Environmental Studies, Ministry of Urban Development, GOI, Lucknow on **16th December, 2010.**
- Training Programme on Natural Hazard at Directorate of Population and Family Planning, U.P., Lucknow on **11th November, 2010.**
- **DST, New Delhi Inspire programme lecture on Climate Change at MGPG, Gorakhpur University, Gorakhpur on 14th October, 2010.**
- Lecture as Guest of honor on Climate change at Lucknow Christian PG College, Lucknow on **21st September, 2010.**
- **DST, New Delhi Inspire programme lecture on Understanding Planet Earth at CMS degree college by University of Lucknow, Lucknow on 25th May, 2010.**
- Chaired a session and key note address on **Climate Change** in Sacred Heart Degree College, Sitapur, U.P. on **21st February, 2010.**
- Chaired the valedictory session in the Conference on “Fire and Disaster Management” in Lucknow organized by Institute of Fire Engineers, on **19th February, 2010.**
- Chaired a session and delivered key note address on Climate Change: Issues and Imperatives at B.B.A. Central University, Lucknow on **16th February, 2010.**
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- Refresher course of Earth Science at Academic Staff College, **Banaras Hindu University, Varanasi** on **11th February, 2010.**
- Chaired a session and guest of honor for deliberation on “International Climate Diplomacy-Defining challenges of Global warming for India” at regional science centre by Institute of Environment on **16th January, 2010.**
- Refresher course of Environmental Science at Academic Staff College, **Gorakhpur University, Gorakhpur** on **13th January, 2010.**
- Impact of Climate change on water resource at Regional Centre for Urban and Environmental Studies, Ministry of Urban Development, GOI, Lucknow on **16th November 2009.**
- Chaired a session and delivered key note address in International Seminar on Environmental Crisis in 21st Century at ASC, Lucknow University on **14th September, 2009.**
- On Climate Change and Water Resource Management, at Regional Centre for Urban and Environmental Studies, Ministry of Urban Development, GOI, Lucknow on **15th July,**

2009.

- Resource person for the refresher courses and orientation programmes at **Academic Staff College, University of Lucknow, Lucknow since 2009.**
- Chaired a session and delivered key note address in National Seminar at Geography Department, Gorakhpur University, on **8th February, 2009.**

INVITED/PLENARY LECTURES ON SCIENCE DAY, EARTH DAY, ENVIRONMENT DAY, REMOTE SENSING DAY, EDUCATION DAY

- **Earth Day** Special Lecture by C Carbon at MM College, Gomati Nagar, Lucknow on **22 April, 2019.**
- Unity Day special lecture and **Chief Guest** at Kalicharan PG College, Lucknow, **31 October, 2018.**
- **Environment Day lecture** at Regional Head Office, State Bank of India, Lucknow on **‘Beat Plastic Pollution’, 5 June 2018**
- **Annual Function day lecture** at Rana Pratap PG College, Sultanpur on **February 4, 2018**
- Invited Speaker on Science and Technology for Sustainable Development in **1st North Indian Science Congress**, BBAU, Luckow, on **11.1.2018.**
- **Special lecture** on Climate Change and Fog at Lucknow University on **21-11-2017.**
- Invited Speaker on Gomti River at Rajat PG College, Lucknow on **5.8.2017.**
- **Environment Day lecture** at Indira Gandhi Pratishthan, Lucknow on **‘Connecting People with the Nature on 5 June, 2017 by Forest Department.**
- **Environment Day lecture** at Reserve Bank of India, Lucknow on **‘Connecting People with the Nature on 5 June, 2017**
- Key Note Speaker on **World Earth Day** 22-4-2017 by C-Carbons at SKD Academy, Lucknow.
- Key Note Speaker on **World Water Day** on **22.3.2017** by C- Carbons at Shakunatal University
- Special lecture on Agriculture & Climate in Economics Department, L.U. on **26.2.2017.**

- **Chief Guest/** Lecture on Climate Change & Society at S.N. Pradhan College, Chhibramau, Kannauj on **3.12.2015**.
- Lecture on **Remote Sensing Day** at UPRSAC, Lucknow Day, **12th August, 2015**.
- Lecture on at VHPG College, Lucknow, **9th August, 2015**.
- Invited Lecture on Climate Change and Nation Building at Integral University, Lucknow **on Science Day, 28 February, 2015**.
- Invited Lecture on Climate Change and Nation Building at **CST, Lucknow on Science Day, 28 February, 2015**.
- Invited Lecture on Impact of Climate Change on Glaciers and Rivers and its consequences on Society at **102 Indian Science Congress, 6 January, 2015**.
- Invited lecture on Impact of Climate Change on Society at New Millanum School, Gomati Nagar, Lucknow by Paryawaran Chetna, on **9 November, 2014**
- Invited lecture on **Climate Change** at I.T.College, Lucknow on **27 September, 2014**.
- Invited lecture on Science of Rivers and Society at CMS, Gomati Nagar, Lucknow by **Ganga Jagaran Yatra, Dainik Jagran** on **4 July, 2014**.
- International **Biodiversity Day** lecture on Climate Change and Island Biodiversity at Ram Manohar Law University, Lucknow by **UP state Biodiversity Board** on **22nd May, 2014**.
- Invited lecture on Climate Change at **Geology Department, Pune University, Pune**, on **15th May, 2014**.
- Invited lecture on Climate Change on Planet Earth. Past, Present and future on **Earth Day at Geological Survey of India, Lucknow** on **22 April, 2014**.
- First Prof. Birabal Sahni Lecture on Kedarnath Tragedy: a lesson for the future at **Prof. Birbal Sahni death anniversary at BSIP, Lucknow** on **10 April, 2014**.
- Invited by MOES brain storming session on Palaeo-climate records of Ganga Plain from **3-4 April, 2014 at WIHG, Dehradun**.
- Invited lecture on Water Conservation and climate change at **Central Ground Water Board, Lucknow** on **24 March, 2014**.
- Key note lecture on Climate change and Disaster at RSUEC, Lucknow on **Science Day, 28 February, 2014**.

- Key note lecture on Science and Rural Development at BRDPG College **14 February, 2014.**
- Invited lecture on **Science and Society** at Regional Science Centre, Lucknow by **DST Science Communication** on **30 January, 2014.**
- Key note lecture on Climate change and Society at Geology Department, University of Lucknow, on **National Education Day, 11 November, 2013.**
- Key note lecture on Himalayan Devastation at National P.G.College, Lucknow on **10 October, 2013.**
- Key note lecture on Environment Protection at Bijali Pasi Government P.G. College, Lucknow on **1 October, 2013.**
- Key note lecture on **Ozone Day** at RSC, Lucknow on **18th September, 2013.**
- Invited as guest on **Ground water day** at Regional Science Centre, Lucknow on **18th July, 2013.**
- Lecture on Climate Change on **Earth Day** at Regional Science Centre, Lucknow on **22nd April, 2013.**
- Lecture on **Remote Sensing Day** at UPRSAC, Lucknow Day, **12th August, 2011.**
- Lecture on “Climate change, glacier melt and its impact on Society” at BBA Central University, Lucknow on **17th June, 2011.**
- Invited lecture at Regional Centre on **Environment Day** for Urban and Environmental Studies, Ministry of Urban Development, GOI, Lucknow on Water resources and Climate change **5th June, 2011.**
- Delivered a lecture on Socail Justice and Environment at Vidyant Hindu Degree College, Lucknow on **10th March, 2011.**
- Delivered a talk on Climate change on All India Radio at Lucknow on **25th February, 2011** between 7-8pm.
- Lecture on First Indian expedition to the Arctic at AGPG College, Lucknow on **7th December, 2010.**
- Lecture on Ganga Plain Rivers in IGCP-581 as a member of National Working group at GSI, Hyderabad on **2nd November, 2010.**
- Key note lecture on **1st July, 2010** at workshop on **a forestation and environment** at

CMS College, Gomati Nagar, Lucknow organized by Sahara India and Nagar Nigam.

- Climate change and its impact on natural hazards on **Environment Day**, at Regional Centre for Urban and Environmental Studies, Ministry of Urban Development, GOI, Lucknow on **5th June, 2010**.
- Understanding Planet Earth at CMS degree college, Lucknow on **25th May, 2010**.
- In Geography Olympiad at CMS degree college, Lucknow on environmental change on **9th November, 2009**.
- Lecture on Science in Hindi at Birbal Sahni Institute of Palaeobotany, Lucknow on **26th June, 2008**.
- Role of Citizen in Combating Climate change on **Environment Day** at Regional Centre for Urban and Environmental Studies, Ministry of Urban Development, GOI, Lucknow on **5th June, 2009**.
- Environment change and our role on **Environment day** at Taj Hotel, Lucknow on **5th June, 2008**.
- First Indian Expedition to Arctic at Uttar Pradesh Remote Sensing Application Centre, Lucknow on **15th April, 2008**.
- Understanding Planet Earth, on **Science day**, at Biochemistry Department, University of Lucknow, **28th February, 2008**.

SIGNIFICANT CONTRIBUTIONS/ACHIEVEMENTS

Prof. Singh is applying Earth Sciences for welfare of the society. He has been selected as member of First Indian Expedition to the Arctic, North Pole region in 2007 where tricolor was hoisted for the first time in Indian History. He has been conferred all awards of government of Uttar Pradesh for his outstanding contributions in Science.

To remove panic from the society on scientific aspects he has delivered more than 200 lectures and 1000 news in National News dailies for social awareness.

The Book Indian Rivers, Springer Publisher, 2018, is the first book of its kind in the world, which contains chapters on all major rivers of a country.

Prof. Singh has analyzed many rivers of Ganga Plain for and identified lateral erosion as a new river born hazard, which is an addition to the international knowledge. A model to forecast the floods has been proposed for Rapti River.

Chhoti Gandak the most studied River Basin in the world is due to work done by Prof. Singh. Monsoon variability and major climate events have been explained for the first time from eastern Uttar Pradesh.

Landscape modification and reasons for different opinion for extent of Last Glacial Maxima in Himalaya was explained for the first time, which was reestablished after Kedarnath tragedy.

Prof. Singh is advocating for climate change as a natural event and described that causes of rapid retreat of Gangotri Glacier are its own characteristics and is decreasing.

IMPACT OF THE RESEARC WORK

Prof. Dhruv Sen Singh research works are well appreciated for River Science, Climate, Environment, Gangotri Glacier, and Arctic.

He has described that rapid rate of retreat of Gangotri Glacier is due to its own typical characteristics and not necessarily the global warming. Its rate of retreat is continuously decreasing from 38m in 1970 to 10m in 2015. The same has been validated for many other glaciers by other Scientists.

The controversy of complete melting of Gangotri Glacier and threat to the existence of Ganga River came to an end. Now many Scientists are of the opinion that melting of Glaciers and Climate change is a natural and cyclic process.

Prof. Singh concept of modification of landforms in Gangotri Glacier region was reestablished after Kedarnath tragedy. His explanations for getting diversified opinion for similar events in the Himalaya have been accepted.

Evolve the Monsoon Variability and major Climate events for last thousand years in the Ganga Plain.

The identification of lateral erosion as an independent fluvial hazard is an addition to the international knowledge of Rivers and Natural Hazard is well accepted. And a model to forecast the flood for Rapti River is being applied to other rivers.

Prof Singh views removes panic from the society on scientific issues. Prof. Singh book from Springer published in 2018 on The Indian Rivers, Scientific and Socioeconomic aspect is well appreciated and has about 10,000 downloads in few months.

CONTRIBUTIONS TO SOCIETY

Whenever fear, mystification, and panic are created in society on any scientific issues, he tries to remove it by presenting the scientific facts behind those events through lectures and media. Geopanaorama, 2009 and Diksha, 2017 was published for the sake of knowledge dissemination and spreading social awareness on scientific issues in the society.

Deliver invited lectures and serve as a resource person in academic and research institutions on Science Day, Earth Day, Environment Day, etc. for scientific awareness.

The Indian Rivers, Scientific and Socioeconomic aspects edited by Springer Germany in 2018 is the First book of its kind in the world which contains chapters on all major rivers of a country like India and explains their adjustment with climate change and natural hazards.

Prof. Singh is advocating for climate change as a natural event since 2001 and described that rapid retreat of Gangotri Glacier is due to its own typical characteristics and not necessarily the global warming. After the fourth report of IPCC, 2007, panic was created in the society that Gangotri Glacier will disappear by 2035. To remove this panic an article Gangotri from here to eternity was published in Times of India in all India editions from 14 to 28 March, 2008 and a book Geopanorama was published, 2009 which is distributed free of cost. Later on, IPCC retracts the claim and accepted the same in 2010.

Prof. Singh is applying Earth Science for the welfare of the society.

HONOURS/ AWARDS:

International

Member of the First Indian Expedition to the Arctic (North Pole Region) in 2007 under Government of India Mission. The selection was made on the basis of the scientific work carried out on the climate and environmental aspects of glaciers in the Himalaya and rivers of the Ganga Plain.

The tricolor was hoisted and 15th August was celebrated for the first time in the North Pole region in the history of India. The only teacher from Indian Universities.

Member of the Second Indian Expedition to the Arctic (North Pole Region) in 2008 under Government of India Mission. The selection was made on the basis of scientific work carried out during 1st Indian Expedition and working experience on the climate and environment of glaciers in the Himalaya and rivers of the Ganga Plain.

Again the only teacher from Indian Universities. The tricolor was hoisted and 15th August was celebrated for the first time in the Himadri (Indian Research Station) in North Pole Region in the history of India.

Only member from India to participate in the meeting of the International Glaciological Society held at Hokkaido University, Japan in 2010.

Member of two International scientific organizations in Earth Science such as Geological Correlation programme on Asian Rivers and International Association of Sedimentologist.

National

Vigyan Ratna, a prestigious Award of Council of Science and Technology, Government of U.P., Lucknow in 2010. For the research and contributions for river science, paleoclimate, paleoenvironment and social awareness in the society on scientific issues. Prof. Singh is the only serving faculty to be conferred with this award.

Sikshak Shree Award of Department of Higher Education, Government of U.P., Lucknow in 2013. On the basis of teaching skill, scientific research work, and knowledge dissemination in the society on river science, climate change, and environmental issues.

Saraswati Samman, the highest award of Department of Higher Education, Government of U.P., Lucknow in 2014. On the basis of teaching skill and research

work on river science, climate change, environmental issues and knowledge dissemination in the society.

For his excellence he has been awarded Six Fellowships and Scholarships from High School up to Ph.D.

He is fellow and life member of all the prestigious National Scientific organizations of Earth Sciences such as Indian Science Congress Association, Society of Earth Scientist, Geological Society of India, Palaeontological Society of India, Indian Society of Remote Sensin, Indian Society of Glaciological Sciences.

Local

Astitwa Samman in 2015 by Vikalp Organization at Regional Science Centre for making a mark in the field of science.

Felicitated for his contribution in the field of science by the Alumni Association in 2015 by Government Inter College, Deoria.

Excellence Award for his vital contribution to the society by Lucknow Institute of Environmental Studies in 2008.

Awarded and recognized by many NGO, educational institutions for his contributions to science and society.

Titled Best Scientist by National News Dailies by Times of India, Amar Ujala, Hindustan Times.

Recognized as the Best Teacher in field of science by National News Dailies by Rashtriya Sahara, Hindustan, Amar Ujala.

Selected amongst top 30 persons of Lucknow in last 30 years for his milestone achievements in the field of science by the Times of India in 2010 along with a lot of notable personalities, including former President Dr. Shankar Dayal Sharma Ji.