



BIO-DATA

Dr. Ramesh Kumar Kakar

*Former Professor & Chairman
Centre of Advanced Study in Geology
Panjab University, Chandigarh*

Former Fellow of Panjab University (1996-2004)

*Former Registrar and Professor of Engineering Geology
Baddi University of Emerging Sciences & Technology,
Baddi, Dist. Solan, H. P*

BIO-DATA

I. Personal Information

1. **Name** : Professor (Dr.) Ramesh Kumar Kakar
 2. **Date of Birth** : 3rd November N.H. Forty two (03.11.1942)
 3. **Father's Name:** Late Sh. Hukam Chand Kakar
 4. **Address** : # 1614, Sector 44-B, Chandigarh-160 047
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II. Academic Career

An alumnus of Panjab University right from Matriculation (1957) to Ph.D. (1976).

Academic Record :

Matriculation	Panjab Univ.	1957	Ist Div.
B.Sc.	-do-	1961	Ist Div.
M.Sc.	-do-	1963	Ist Div.
Ph.D.	-do-	1976	

III. Positions Held (in ascending order)

- Oct. 1963 - April 1964. : Technical Assistant, Oil and Natural Gas Commission, Baroda.
- April 1964 – August 1964 : Junior Fellow, CAS Geology, Panjab University, Chandigarh.
- July 1964 – March 1966 : Teaching Assistant, CAS Geology, Panjab University, Chandigarh.
- March 1966 – Dec. 1978 : Lecturer, CAS (Centre of Advanced Study) Geology, Panjab University, Chandigarh.

- Dec. 1978 – Nov. 1988 : Reader, CAS Geology, Panjab University, Chandigarh.
- Dec. 1988 – Nov. 2004 : Professor, CAS Geology, Panjab University, Chandigarh.
- May 2005 – May 2007 : Principal Investigator, DST Project, Panjab University.
- May 2007 - Sept. 2011 : Registrar, Baddi University of Emerging Sciences & Technology (formerly Institute of Engineering & Emerging Technologies and CASE Group of Institutes), BADDI, Himachal Pradesh.
- Sept. 2011 – Jan. 2012 : Professor of Engg. Geology in Civil Engineering Dept., Institute of Engineering & Emerging Technologies, Baddi University of Emerging Sciences & Technology.

IV. Participation in University Administration

Panjab University

Elected Fellow of the University for two consecutive terms, four years each, 1996-2000 and 2000-2004 from the Constituency of Professors on the Teaching Departments of the Panjab University.

- Elected to the Syndicate of the University for the years 1997 and 2002.
- Dean Foreign Student (DFS) for the year 1998-1999. Managed the affairs of foreign students on the campus as well as in the colleges affiliated to the University. Worked as a Liaison Officer between the University and the ICCR (Indian Council of Cultural Relation) of Ministry of Foreign Affairs, Government of India.
- Served on various decision making committees of the University in the capacity of Fellow and worked for the interest of the Institution.

Chairman of the Department

Served as the Chairman of the Geology Department and Director of the Centre of Advanced Study in Geology (UGC) for a full term of 3 years (Sept. 2000-Sept. 2003).

During the term, established GIS/Computer Laboratory; procured LCD Projector, Millipore Water Purification Unit, Microwave Digestion System for rocks, Deluxe Bus for Field Work etc.

Baddi University of Emerging Sciences & Technology

Worked as Registrar in the Baddi University of Emerging Sciences & Technologies. Streamlined the working systems and taught Engineering Geology in the Civil Engineering Department.

V. Professional Experience and Research Activity

Area of Research/Teaching : Structural Geology, Environmental & Engineering Geology, Applied Geology and Hydrogeology .

Publications Research Papers : 34

Volumes Edited (a) Associate Editor : Bulletin of Indian Geologists' Association. 1985-1986.

(b) Editor Bulletin of Indian Geologists' Association. 1987- 1988.

Convener and Editor

(a) National Seminar on Geological Aspects of Environment, 1999.

(b) IGCP-UNESCO National Seminar Geoscience Education for Natural Resources Management, 2001.

Seminars

Participated in several National & International Seminars/Symposia and presented research papers. Citation in a book on Western Himalaya, published aboard.

Research Guidance

Guided and supervised the research work of several M.Sc. & M.Phil. students (for their dissertations), and Ph.D. scholars (6 awarded Ph.D.).

Projects

Worked as Co-Principal Investigator and Principal Investigator in the research Projects (UGC & DST).

Co-Principal Investigator

= A comparative study of geochemistry, biogeochemistry, mineralogical and isotopic parameters of lake sediments and waters of Rewalsar Lake, H. P., with those of some other lakes of Lesser and Higher Himalaya.
(DST Project 1999-2003).

= Geochemical and biogeochemical studies of Renuka wetland ecosystem, H. P., with reference to their conservation and management.
(DST Project 1999-2003).

Principal Investigator

= Development of National Resources Data Base Anandpur Sahib and Nurpur Bedi Blocks of Ropar (Rupnagar) District of Punjab, India.
(DST Project 2005-2007)

Field Experience

Special Training

= Noamundi Iron Mines and West Bokaro Colliery of mines of Tata & Iron Steel Company (May-August, 1963).

= Oil & Natural Gas Commission, Baroda (1963-64).

= Engineering & Applied Geology, Roorkee.
(2 months, May-June, 1966).

= Imperial College of Science & Technology, London.
Structural Geology, Geological Mapping.
(9 months, Oct. 1972 – June 1973).

Field Work and Supervision

= Done extensive geological field work in the Himalaya and other areas for research and environmental studies.
= Imparted training for mapping and field work to graduate, post-graduate and Ph. D. students and supervised their work.
= Conducted extensive field tours with students, visited open cast and underground mines and supervised their work.

Consultant Geologist

Undertaken several consultancy assignments involving environmental studies, engineering geology, water management and hydro-electric projects.

- Consultant to Coca-Cola Company (August to November, 2002)
Scientific Report on the Ecological and environmental aspects of logos of Coca-Cola painted on the rock surfaces between Manali and Rohtang Pass. (by Dr. R. K. Kakar, Prof. Geology and Dr. R. K. Kohli, Prof. Botany).
The report was submitted to the Supreme Court by the company.

- Consultant to Satluj Jal Vidyut Nigam Limited, Jhakhri, District Shimla, H. P. (2001-2004) The following works/projects were done.
 - = Report on the geology of Khab area and petrological studies of rock samples CEA PH-I, CEA PH-II, C.C.-3A, C.C.-3B, CEA K-II and SJVNL PH-II (2001)
 - = Petrographic Report on qualitative characters of river bed material from shoal deposits of river Satluj (2002).
 - = Petrographic analysis of silt collected from turbine waters (2003).
 - = Petrological analysis of aggregate samples from river bed materials at Keol and an exposed rock along Head Race Tunnel (2004).

- Geological Report on Lambadung Hydroelectric Project.
Robbins Tunneling and Trenchless Technology, Pvt. Ltd. (India)

- Member of State Expert Committee, Punjab, Ministry of Environment and Forests, Government of India, o/o Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala, as Expert on Geology. (2013).

Membership of Professional Bodies

Life Member	:	Indian Geologists' Association
Life Fellow	:	Geological Society of India
Life Member	:	Mining Engineers' Association of India
Life Member	:	Indian Society of Mass Spectrometry
Founder Member	:	Global Hydro-Geological Solutions

Visits Abroad

Official Visits

U.K. Imperial College of Science and Technology,
(Oct. 1972-June 1973) London for Special Training under the Exchange Programme of UGC and the British Council.

Also visited several universities in England and Scotland under the programme.

U.S.A.
(March 31-April 9, 2002) Visited United States on a USAEP (United States-Asia Environment Partnership Exchange Program for Sustainable Growth) for water purification technologies. Was a member of the Indian delegation under the programme.

Prof. Dr. R. K. Kakar

APPENDIX

List of Publications

1. Sahni, M.R. and Kumar, Ramesh (1966) : A note on the Tundapathar Limestone, Morni Hills, Ambala District, Punjab. *Curr. Sci.*, 35 (11), 286.
2. Pande, I.C. and Kumar, Ramesh (1969) : Stratigraphic significance of metabasics in Chail Formation, Simla Hills, H.P. *Curr. Sci.*, 38(2), 40-41.
3. Kumar, Ramesh and Pande, I.C. (1970) : On the tectonic relationship between the Jutogh and Chail Formations of Simla area, H.P. 5th Seminar on Himalayan Geology, Chandigarh (1970). *Publ. Centre Advanced Study Geology, Panjab University, Chandigarh, No. 10 (Published 1974), 177-183.*
4. Bhatia, S.B. and Kumar, Ramesh (1971) : Some Eocene fossils from Morni Hills, Haryana. *Bull. Ind. Geol. Assoc.*, 4(1-2), 10-17.
5. Kumar, Ramesh (1972) : Algal stromatolites from Simla Formation, Arki District Mahasu, H.P. *Science & Culture*, 38(2), 99-100.
6. Kumar, Ramesh (1974) : Morphological analysis of three phases of folds from Arki-Jutogh area, Simla Hills, H.P. 6th Seminar on Himalayan Geology, Chandigarh (1974). *Publ. Centre Advanced Study Geology, Panjab Univ., Chandigarh, No. 11 (Published 1977), 89-104.*
7. Kumar, Ramesh (1977) : Structural and metamorphic history of the Lesser Himalayan rocks of the Arki-Jutogh area, Simla Hills, H.P. *Recent Researches in Geology*, 3, 415-449.
8. Kanwar, R.C., Kumar, Ramesh and Kapila, S.P. (1977) : On the landslide problem and proposed alignment of the National Highway between Udampur and Chenani. *Bull. Ind. Geol. Assoc.*, 10(2), 61-62.
9. Tewari, B.S. and Kumar, Ramesh (1977) : On the occurrence of algal stromatolites in the Tundapathar Limestone of Sherla area, Morni Hills, Haryana. *Bull. Ind. Geol. Assoc.*, 10(2), 69-70.
10. Kumar, Ramesh and Chandra Kailash (1978) : Deformational history of the Thathari area, District Doda, Jammu and Kashmir. *Him Geol.*, 8, 399-408.
11. Kumar, Ramesh (1978) : On the development of planar structures in the Lesser Himalayas, Arki-Jutogh area, Simla Hills, H.P. *Recent Researches in Geology*, 5, 330-339.
12. Kumar, Ramesh (1978) : Tectonic set up of the detached outcrops of limestones in the Simla Hills, H.P. *Contributions to Him. Geol.*, 1, (Inaugural Number), 165-170.
13. Thakur, S.S. and Kumar, Ramesh (1979) : Occurrence of lead deposits in the Jutogh Formation of Simla Hills, H.P., *India Curr. Sci.*, 48(24), 1082.
14. Grover, S.P. and Kumar, Ramesh (1980) : Geology and structure of Tosham and Baradari Hills, Tosham, Haryana, *Proc. Of 8th Himalayan Geology Seminar (1979) at Chandigarh : Publ. Centre Advanced Study Geology, Panjab University, Chandigarh, No. 12, 210-236.*
15. Kumar, Ramesh (1981) : Significance of small scale structures in the mapping and correlation of Simla 'Slates'. *Recent Researches in Geology*, 8, 312-315.
16. Kumar, Ramesh (1981) : Structure of Kathnol klippe of the Shali area, Simla Hills, H.P., India. *Recent Advances in Geology*, 8, 299-303.

17. Kakar, Ramesh K. (1984) : Invited paper. Geomorphological and structural development of Shimla Hills. In : Monograph on Geographical perspectives on development in India, M.J. Rice (ED.), 1982 Fulbright Group Study Program, The University of Georgia, Athens, Georgia, U.S.A., 145-163.
18. Saxena, M.N., Gupta, L.N. and Kakar, Ramesh K. (1984) : Tectonic implications of the carbonate formations of the Himalaya. Mem. Ind. Geol. Assoc., 1, 175-180.
19. Kakar, Ramesh K. and Thakur, S.S. (1984) : Structural history of the lower part of Shali Formation occurring around Kangar, SW of Baragaon, Shimla Hills, H.P. Mem. Ind. Geol. Assoc., 1, 83-94.
20. Kakar, Ramesh K. (1984) : The correlation of Madhan Slates with the Simla Formation Mem Ind. Geol. Assoc., 1, 43-46.
21. Mehta, P.K. and Kakar, Ramesh K. (1985) : Some comments on the Tal problem Proc. Krol-Tal Field Meeting. In : Bull. Ind. Geol. Assoc., 18(1), FM 51-FM 56.

(Note : Papers published prior to the year 1984 are under the name Ramesh Kumar, without the surname Kakar).

22. Sahni, Ashok and Kakar, Ramesh K. (1985) : The Krol-Tal Field meeting-Editor's Note. Proc. Krol-Tal Field Meeting. In : Bull. Ind. Geol. Assoc., 18(1), FM 1 – FM 6.
23. Kakar, Ramesh K. and Shreedhar, S.K. (1985) : A note on the Leo Pargial Migmatitic Complex, Kinnaur District, H.P., India. Bull. Ind. Geol. Assoc., 18(2), 141-144.
24. Shreedhar, S.K., Prasad, A.K. and Kakar, Ramesh K. (1986) : Petrochemistry of the amphibolites occurring in the Central Crystalline Zone near Wangtu, Distt. Kinnaur, H.P., India. Publ. Centre Advanced Study Geology, Panjab University, Chandigarh, India, 2(NS), 41-45.
25. Kakar, Ramesh K. (1986) : Rb-Sr radiometric ages of Darla volcanics and amphibolite from Jutogh rocks near Shimla, H.P., India. Bull. Ind. Geol. Assoc., 19(2), 97-101.
26. Kwatra, S.K., Bhanot, V.B., Kakar, Ramesh K. and Kansal, A.K. (1986) : Rb-Sr radiometric ages of the Wangtu Gneissic Complex, Kinnaur District, Higher Himachal Himalaya. Bull. Ind. Geol. Assoc., 19(2), 127-130.
27. Kakar, Ramesh K. (1988) : Geology and tectonic setting of Central Crystalline rocks of southern part of Higher Himachal Himalaya. Jour. Geol. Soc. India, 31(2), 243-250.
28. Kwatra, S.K., Bhanot, V.B., Kansal, A.K., Kakar, Ramesh K. and Hedge, C.E. (1989) : New Rb-Sr data on the granitic rocks of Chor area and review of isotopic ages on those rocks from Western Himalaya and its geological interpretation. Curr. Trends in Geology, XII, Ed. P.S. Saklani, 277-289.
29. Kwatra, S.K., Bhanot, V.B., Kansal, A.K. and Kakar, Ramesh K. (1990) : Whole rock Rb-Sr isochron ages for granitic and gneissic rocks of Karcham Group, Satluj valley, H.P, India, Proc. National Symp. On Vacuum Tech. & Anal. Instr. C.S.I.O., Chandigarh (Abs.)
30. Kwatra, S.K., Singh, V.P., Kakar, Ramesh K. and Bhanot, V.B. (1993) : Rb-Sr isotopic age of Leo Pargial tourmaline leucogranite, Spiti Valley, Himachal Himalaya. Reprint Vol. 6th National Symp. on Mass Spectrometry, Dehradun. EPS – 8, 438-441.
31. Sahni, Ashok and Kakar, Ramesh K. (1995) : Palaeo-environments during the Indian Cretaceous : Geodynamic evolution of contrasting basinal tectonic settings Proc. 15th International Symp., Kyungpook National University, 131-147.

32. Das, Brijraj K. and Kakar, Ramesh K. (2000) : Major ion chemistry and weathering process of the Mansar Lake, Sub-Himalaya, Jammu, India Jour. Pb. Acad. Sci. 2(1), 241-247.
33. Kakar, Ramesh K. (2004) : Geo-Science curriculum at school level. IGCP-UNESCO National Workshop on Geoscience Education for National Resource Management. Joint Publication of UNESCO New Delhi and CAS in Geology, Panjab University, Chandigarh, pp 113-119.
34. Singh, K.P. and Kakar, Ramesh K. (2001) : Participatory approach managing groundwater resources – some observations. IGCP-UNESCO National Workshop on Geoscience Education for National Resource Management. Joint Publication of UNESCO New Delhi and CAS in Geology, Panjab University, Chandigarh, pp.53-59.