

Rishi Narain Singh

Visiting Professor

MSc (Geophysics) Banaras Hindu University, 1964

Ph D (Geophysics) Banaras Hindu University, 1969

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Research Interests:

-Geophysical and environmental modeling

-Geodynamics

-Inverse methods

-Mathematical modeling

Work Experience:

Visiting Professor, Indian Institute of Technology Gandhinagar, December, 2015- present

INSA Senior Scientist, CSIR-National Geophysical Research Institute, Hyderabad,2010-2015

CSIR Emeritus Scientist, CSIR-National Geophysical Research Institute, Hyderabad,2005-2010

JRF/SSA/Scientist, CSIR-National Geophysical Research Institute, Hyderabad, 1964-1970,1973-1995,2003-2005

Post-Doctoral Fellow, Dalhousie University, Halifax; Memorial University of Newfoundland, St John's, Canada, 1970-1973

Scientist-in-Charge, CSIR Centre for Mathematical Modeling and Computer Simulation, Bengaluru, 1996-1999

Director, CSIR-National Environmental Engineering Research Institute, Nagpur, 1999-2003

Awards

S S Bhatnagar Prize in Earth Science

Fellow, Indian Academy of Sciences, Bengaluru

Fellow, Indian National Science Academy, New Delhi

Decennial Award, Indian Geophysical Union, Hyderabad

National Award in Geoscience and Technology, Ministry of Earth Sciences

Selected publications:

Amiya Baruah, Alok K. Gupta, Nibir Mandal and R N Singh, 2013. Rapid ascent conditions of diamond-bearing kimberlitic magmas: Findings from high pressure–temperature experiments and finite element modelling, *Tectonophysics*, 594, 13-26.

H. J. Purohit, D. V. Raje, A. Kapley, P. Padmanabham, and R. N. Singh, 2003 Genomic tools in environmental impact Assessment, *Environmental Science and Technology*, 37, 356A-363A.

P. Mandal, A. Manglik and R. N. Singh, 1997. Intraplate stress distributions induced by topography and crustal density inhomogeneities beneath the Killari, India, region, *J. Geophys. Res.* 102, 11,719-11,729.

A. Manglik and R. N. Singh, 1995. Postintrusive thermal evolution of continental crust: A moving boundary approach, *J. Geophys. Res.*, 100(B9), 18031-18043.

J. Ganguly, R. N. Singh and D.V. Ramana, 1995. Thermal perturbation during charnockitization and granulite facies metamorphism in southern India, *J. of Metamorphic Geology*, 13, 419-430.

R. N. Singh, S.N. Rai and D.V. Ramana, 1991. Water table fluctuation in a sloping aquifer with transient recharge, *J. Hydrol.*, 126, 315-326.

G. Vasseur and R. N. Singh 1986. Effects of random horizontal variations in the radiogenic heat source distribution on its relationship with the heat flow. *J. Geophys. Res.*, 91, 10,397- 10,404.

S. Bhattacharji and R. N. Singh 1984. Thermo-mechanical structure of the southern part of the Indian shield and its relevance to Precambrian basin evolution. *Tectonophys.*, 105, 103-120.

R. N. Singh and J.G. Negi 1982. High moho temperature in the Indian shield. *Tectonophys.*, 82, 299-306.