



St. Xavier's College

Dr. Camil Bulcke Path, Ranchi

Faculty Profile

Name of Faculty Member	:	Dr. Jayant Sinha
Gender	:	Male
Email ID	:	jayantranchi@gmail.com
Name of Department	:	Department of Geology
Designation	:	Associate Professor
Level of Teaching	:	Undergraduate and Postgraduate
Academic Qualification	:	M.Sc., Ph.D.
Total Teaching Experience	:	39 Years
UGC NET/SET Qualified	:	No

Research Papers Published:

- 1) **"Geospatial Analysis Based Watershed and Sub-Watershed Delineation of Kanchi River Sub-Basin, Khunti-Ranchi Districts, Jharkhand"**, The Quaternary Journal of the Geological Association and Research Centre, Vol. 31, No. 3, Sep 2023.
- 2) **"Petrogenetic Modelling of the Granitic Rocks in and around Lodhma, Dist. Ranchi, Jharkhand"**, EPRA International Journal of Research and Development (IJRD) 202108-02-008177, Vol. 6, Issue 8, Aug 2021.
- 3) **"A study of the Granitic rocks of the Ichadag area in Ranchi Plateau in Eastern India"**, EPRA International Journal of Multidisciplinary Research (IJMR); 201804 – 01-002255, Feb 2020.
- 4) **"Petrogenesis of Amphibolites of Chhuttupalu area, Ranchi (Bihar)"**, G A R C Balaghat, Vol. 6, No. 3, Sep 1998.
- 5) **"A study of Primary source material of the amphibolites of Chhotanagpur area, Ranchi (Bihar): A Statistical Approach"**, Arybhata Research Journal of Physical Sciences, Vol.1, Inaugural No. 1, 1998.

Participation in UGC-HRDC Course/FDP/OC/RC:

- 1) One-day Brain Storming Session on **Mining Hydrogeology and Management of Ground Water in Coal Mining Area with Special reference to Jharkhand State**, on 4th Feb 2012, organized by Central Ground Water Board, Ranchi.
- 2) Training Programme on **Basic Disaster Management Course** on 29 Nov to 3 Dec, 2010, organized by Department of Personnel and Training (DOPT) & National Institute of Disaster Management (NIDM).
- 3) Two days Awareness and Training Programme on **Ground Water Problems, Issued and Rain Water Harvesting and Artificial Recharge to Ground Water** on 28-29 March 2009, organized by Central Ground Water Board, Mid-Eastern region, Patna.
- 4) UGC sponsored Refresher Course in **Earth Science** from 10.03.2004 to 31.03.2004, organized by UGC-Academic Staff College, Ranchi University, Ranchi.
- 5) UGC sponsored Refresher Course in **Structural Geology** from 07.11.1994 to 26.11.1994, organized by Department Applied Geology, Indian School of Mines, Dhanbad.
- 6) UGC sponsored Refresher Course in **Geology** from 06.11.1989 to 26.11.1989, organized by Department Applied Geology, Indian School of Mines, Dhanbad.
- 7) Teachers Re-Orientation Training Programme sponsored by Department of Electronics, Govt. of India from 01.05.1988 to 30.06.1988 at Birla Institute of Technology, Ranchi.

Paper Presented in the Seminar/Conference (National/International):

- 1) **A Geospatial Approach for Watershed Delineation and Stream Network Analysis for Groundwater Management- A Case study of Kanchi River sub-basin, Khunti-Ranchi Districts, Jharkhand**, National Seminar on Water Conservation and Management, organized by IQAC, Shaheed Sheikh Bhikhari College of Education, Pithoria, Kanke, Ranchi, Feb 3, 2024
- 2) **An Overview of Site Suitability study for disposal of Urban Solid Wastes**, 3rd International Conference on Environment and Ecology, ICEE, St. Xavier's College, Ranchi, 29th March 2017.
- 3) **Geochemical modelling of amphibolites of Ichadag area in Ranchi Plateau region, Jharkhand**, Second Symposium on the Geological Resources in the Tethys Realm, Jan 5-8, 2013

- 4) **Connecting Rivers of Jharkhand: A sustainable Water Resource Management**, National Seminar on Urbanisation and Changing state of Environment, Sep 24-25, 2012; organized by St. Xavier's College, Ranchi.
- 5) **Granitic rocks of Chuttupalu area in the Ranchi District, Jharkhand**, UGC sponsored National Seminar on Mineral Resources & Development of India with special reference to Jharkhand, March 2-3, 2012.
- 6) **Origin of Amphibolites of Bero Region: A Precambrian Metamorphic terrain in the Ranchi District, Jharkhand**, 17th Convention of Indian Science Congress and International Conference on New Paradigms of Exploration and Sustainable Mineral Development Vision: 2050, Nov 10-12, 2011, organized by Indian School of Mines, Dhanbad.
- 7) **Coalbed Methane: A viable source of Energy in Indian Context**, First International Symposium on the Petroleum and other Geological Resources in the Tethys Realm (17-25 March 2009), Cairo University, Egypt, 2009.
- 8) **Geographical Information System: Providing New Dimensions to Solution Methodologies in Modern Era**, Proceedings of the National Seminar on Recent Advances on Information Technology (RAIT-2009), Feb 6-7, 2009, Indian School of Mines, Dhanbad.
- 9) **Disaster Management Through Geographical Information System**, National Conference on Managing Technology for Organization Excellence, Swami Vivekanand Group of Institutes, Jan 23, 2009.
- 10) **Geochemical and Statistical treatment of amphibolites of Chuttupalu area in Chhotanagpur gneissic complex in Eastern India**, Fourth International Conference on the Geology of the Tethys, Cairo University, Egypt, Nov 17-24 2008.
- 11) **GIS: An effective weapon to combat HIV AIDS and an indispensable tool in designing a health surveillance system in Indian context**, MAP ASIA-2007, Kuala Lumpur, Aug 14-16, 2007.
- 12) **Source rock study of the Amphibolites of Ranchi sub Plateau of Eastern Indian Shield**, 32nd International Geological Congress, Aug 20-28, 2004.
- 13) **Evaluations of parameters controlling Earthquake Management System: An Analytical approach**, MAP ASIA-2002, Bangkok, Thailand, 2002.
- 14) **Geotechnical studies of an Engineering Project: A geomatic Approach**, Conference MAP INDIA – 2002, New Delhi, 2002.
- 15) **Applications of GPS in Geological Mapping: A Preliminary thought**, Asian GPS Conference, New Delhi, 2001.

- 16) **Geoinformatics based disaster management system**, UGC sponsored National Seminar on Natural Hazards in Hilly Region, Ranchi, 2002.
- 17) **Granitoids of the Chuttupalu area, Dist. Ranchi: A Petrogenetic study**, 88th Convention of Indian Science Congress, New Delhi, 2001.
- 18) **IT revolution in Jharkhand: In context with Global and Indian Scenario**, National Seminar on Agenda for Sustainable Development of Jharkhand State, IICM, Ranchi, 2000.
- 19) **Metasites of the Ichadag area, Ranchi (Bihar): A study of Magma type**, 87th Convention of Indian Science Congress, Pune, 2000.
- 20) **Ortho-amphibolites of Ranchi-Palamu belt: A study of their magma type**, 12th convention Indian Science Congress, Udaipur, 2000.
- 21) **Application of Geostatistical tools in Amphibolites Petrogenesis: A case study of Amphibolites of Ichadag, Ranchi**, 86th Convention of Indian Science Congress, Chennai Session, 1999.
- 22) **Genetic Overview of the amphibolites of Chuttupalu are, Ranchi (Bihar)**, 85th convention Indian Science Congress, Hyderabad, 1998.
- 23) **Geochemical study of Chhotangpur amphibolites with special reference to Chuttupalu area, Ranchi**, 11th Convention of Indian Geological congress and National Seminar on Models on the evolution of "Granite Greenstone belts, Granulite terranes and associated Mineral Deposits" , Mysore, 1998.
- 24) **Black Granite – The Amphibolites around Ichadag area, Ranchi (Bihar): A Petrographical study**, National Seminar on Mineral Exploration and Development in Bihar, organized by Department of Mines & Geology, Govt. of Bihar at Ranchi, 1998.
- 25) **Comparative Geochemical overview of Amphibolites in Ranchi-Palamu Region of Chhotanagpur crustal segments**, National Seminar on Geoscientific Advances in Bihar in the last decade, Patna, 1998.

Attended Seminar/Conference (National/International):

- 1) On Attended National Seminar **Water Conservation and Management**, organized by IQAC, Shaheed Sheikh Bhikhari College of Education, Pithoria, Kanke, Ranchi, on 3rd Feb 2024.
- 2) Attended National Conference on **Communication and Innovation for SDGs: A Key towards transformation of World**, organized by Department of Planning

and Development, Govt. of Jharkhand and Usha Martin University, Ranchi, Dec 7-8, 2023.

- 3) Attended 3rd International Conference on **Environment and Ecology**, ICEE, St. Xavier's College, Ranchi, on 29th Mar 2017.
- 4) Attended Second Symposium on the **Geological Resources in the Tethys Realm**, Aswan, Egypt, on 5-8 Jan 2013.
- 5) Attended National Seminar organized by Department of Geography, St. Xavier's College, Ranchi, on September 24-25, 2012.
- 6) Attended National Seminar organized by Society of Geoscientists, Jharkhand on 22nd April 2012 at BNR Chanakya Hotel, Ranchi on the theme **Impact of Mining, Urbanization and Industrialization on Water Resource of Jharkhand**.
- 7) Attended UGC sponsored National Seminar on **Mineral Resources & Development of India with special reference to Jharkhand**, organized by Department of Geography, St. Xavier's College, Ranchi, on March 2-3, 2012.
- 8) Attended 17th Convention of Indian Congress and International Conference on **New Paradigms of Exploration and Sustainable Mineral Development: Vision 2050**, organized by Department of Applied Geology, Indian School of Mines, Dhanbad, on 10-12 Nov, 2011.
- 9) Attended two-days Regional Workshop on **Exploration, Development and Management of Ground Water in Hard Rocks with special reference to Jharkhand state**, on 25th-26th March 2010, organized by Govt. of India, Ministry of Water Resource, Central Ground Water Board, Mid Eastern Region, Patna at Shri Krishna Institute of Public Administration, Ranchi.
- 10) Attended National Seminar on **Inflibnet Awareness Programme** for the State of Jharkhand & Bihar, organized by UGC Eastern Region Office, Kolkata at St. Xavier's College, Ranchi.
- 11) Attended National Seminar on **Recent Advances on Information Technology (RAIT - 2009)**, organized by Indian School of Mines, Dhanbad, 2009.
- 12) Attended National Seminar on **Potential Development and Management of Ground Water Resources in Jharkhand**, Ranchi, 2002.
- 13) Attended National Seminar on **Natural Hazards: its implication in Hilly Region**, Ranchi, 2002.
- 14) Attended National Conference on **MAP INDIA – 2002**, New Delhi, 2002.
- 15) Attended Asian GPS Conference, New Delhi, 2001.

- 16) Attended National Seminar on **Agenda for Sustainable Development of Jharkhand**, Ranchi 2000.
- 17) Attended 12th Convention of Indian Science Congress, Udaipur, 2000.
- 18) Attended 87th Convention of Indian Science Congress, Pune, 2000.
- 19) Attended 86th Convention of Indian Science Congress, Chennai, 1999.
- 20) Attended 11th Convention of Indian Geological Congress and National Seminar on **Models on the evolution of Granite Greenstone Belt, Granulite Terranes and Associated Mineral Deposits**, Mysore, 1998.
- 21) Attended National Seminar on **Geoscientific Advances in Bihar, India in the last decade**, Patna, 1998
- 22) Attended National Seminar on **Mines Exploration and Development in Bihar**, organized by Department of Mines and Geology, Govt. of Bihar at Ranchi, 1998.
- 23) Attended 71st Convention of Indian Science Congress, Ranchi, 1984.

Experience of Ph, D, Guidance:

- 1) **Praveen Sinha**, Associate Professor, St. Xavier College, Ranchi has been awarded Ph.D. degree under my supervision on the topic "**A study of the Precambrian rocks of Lodhma-Bero region, Dist. Ranchi with special reference to Amphibolites**".
- 2) **Mable M Toppo**, Assistant Professor, St. Xavier's College, Ranchi is registered under my supervision for Ph.D. degree.

[Dr. Jayant Sinha]