

## **Brief Profile**

### **Ranjit Prasad**

(Ph.D, LMIIME, LMIIM, LMISC)

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**Joined the Institute:** In Dec.1999

**Teaching Experience: Before joining-** 7 years regular and 7 years part time at Post Graduate Centre, Chaibasa, Ranchi University))

**Research Interests/Expertise:** Geology & Mineral Beneficiation, Thermo-chemistry, Phyto-mining, Hydrogeology.

**Area of Teaching:** Geology & Mineral Beneficiation, Engineering Geology, Material Science (Crystallography).

#### **Educational Qualifications:**

- Ph.D. (1993) in Geology (Science) from Ranchi University, Ranchi, Bihar, India.
- M.Sc. Geology. (1985) from Ranchi University.
- B.Sc.(Hons) Geology (1981) 1st class, **Distinction** in Physics from Tata College, Chaibasa
- I.Sc. (1978) 1st Div, **Distinction** in Math from Bihar Intermediate Council, Patna from Tata College, Chaibasa
- Matric (1976) 1st Div. from BSEB, Patna with Phy, Chem, Math, Hindi, English, Sanskrit from St. Xavier's High school, Chaibasa.

#### **Membership of Professional Bodies/ Societies:**

- Life member, Indian Institute of Mineral Engineers,
- Life member, Indian Institute of Metals and
- Life member, Indian Science Congress

#### **Sponsored Projects / Research:**

- Modernization of Geology Lab for project & training facility at UG/PG level, MHRD, GoI.
- Investigations on the Thermo-chemistry of the Interaction of Chromite Spinels and Ores With Alkaline Earth Oxides and Silica Under Different Conditions, DST, GOI. Collaboration with NML Jamshedpur.

#### **Publications:**

- International/National Conferences/Seminars: 37
- Article in book: 2

#### **Research Guidance:**

**Doctoral Level:** 01 (From 16-01-06 to 23-10-07)

**Testing & Consultancy Undertaken :** 4

**Participation in Seminar/Symposium/Workshop :** 08

**Participation in Short Term Courses :**05 ( 8 weeks).

### Books / Articles published

S. No.	Details [ Authors, Year, Title, Publisher, Volume, Page No.]	
1	Ranjit Prasad -Writer of the chapter: " <i>Bhu Jal surakshit hai patal ka pani</i> ", 2008, <i>Bir buru ke pass</i> , Editor- Ranendra and Sudhir Pal; Wani Prakashan, New Delhi, PP.52-61	ISBN: 978-81-8143-691-7
2	Ranjit Prasad -Writer of the chapter: " <i>Khaniz: jamin ke niche khajana</i> ", 2008, <i>Bir buru ke pass</i> , Editor- Ranendra and Sudhir Pal; Wani Prakashan, New Delhi, PP.104-121	ISBN: 978-81-8143-691-7

### Research Publications

Publications in International (Peer reviewed) Conferences/Seminars:

S. No.	Details [ Authors, Year, "Title of Paper", Name of Conference, Organizing Institute, Date, Vol. Page No.]	ISBN
	Meenu Verma, Swati Shalika & Ranjit Prasad, Bio-mining from metal contaminated sites, ISC 2012, Bhubneshwar, pp. 63-70.	ISBN No. 81-910108-0-2
1	<b>Ranjit Prasad</b> & Akhilesh Chaudhary, "Phase transformation of Friable Chromite Ore During Heating In The Inert atmosphere" MPT 2010, NML Jamshedpur, Dec. 2010, pp. – 1017-1021.	ISBN: 978-81-87053-69-7
2	<b>Ranjit Prasad</b> , Meenu Verma & Kriti Kumari, 2010, Phytoavailability and phyto mining of uranium" MPT 2010, NML Jamshedpur, Dec. 2010, pp. – 642-650.	ISBN: 978-81-87053-69-7
3	<b>Ranjit Prasad</b> & Swati Shalika, 2010, "Molecular approach for phytoremediation and phytomining of metal-contaminated sites", MPT 2010, NML Jamshedpur, Dec. 2010, pp. - 1094 . 1101	ISBN: 978-81-87053-69-7
4	S.N.Sinha, <b>R.Prasad</b> and K.K.Prasad, 2008, "Some Considerations of Waste Management in Mineral Industries", National Seminar on Environmental Issues on Geotechnics and Mineral Industry (EIGMI-2008), B.I.T., Sindri, April,2008, pp.425-435. Published by Excel India Publishers, New Delhi,	ISBN: 978-81-906531-1-4
5	P.V.T.Rao, S.N.Sinha and <b>Ranjit Prasad</b> , 2007, "Optimization of ash levels of coarse and fine clean coals at West Bokaro Washery", National Workshop on Advance Gravity Separation (AGS-07), NML Jamshedpur, 30 Aug.- 01 Sep. 07, pp. 173-187.	ISBN: 81-87053-54-7
6	R.S.Karmarkar, <b>Ranjit Prasad</b> and S.N.Sinha, 2007, "Recent developments in coal cleaning", National workshop on advance gravity separation,, NML Jamshedpur, 30 Aug.- 01 Sep. 07,	ISBN: 81-87053-54-7

pp.195- 203.	
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**Seminar / Conference Attended / Papers presented & Published**

S. No.	Details [ Authors, Year, “Title of Paper”, Name of Conference, Organizing Institute, Date, Vol. Page No.]
1	S. Shallika, Meenu Verma & Ranjit Prasad , Isolation of microbial community and its function in heavy metal contaminated soil to reveal its significance in mining industry: A review, ISC 2013
2	Sumedh Gostu <sup>1</sup> , Shubham Indoria <sup>1</sup> , Sushil Kumar <sup>1</sup> , Vinod Kumar and Ranjit Prasad, Characterization perspective of Banded Hematite Jasper for their Beneficiation and Utilization, LGO 2013, Jan 2013, NML Jamshedpur,
3	Kishan Kumar & Ranjit Prasad, Lean Grade Iron Ore Beneficiation: Practices and Challenges, LGO 2013, Jan 2013, NML Jamshedpur,
4	Sumit Kumar Das, K.K.Prasad, Ranjit Prasad & A.K.Upadhyay; Metallogeny in Singhbhum: A boon for India, ISC 2012, Jan 2012, Bhubneshwar,
5	Sumit Kumar Das & Ranjit Prasad, Use of Low Grade Iron Ore in India- the need of the time, NMD 2011, Hyderabad,
6	Ranjit Prasad & Sumit Kumar Das, Singhbhum- The Treasure of Minerals in India, MPT 2011, IISc Bangalore,
7	Ranjit Prasad & Swati Shallika, “Screening of multiple HM tolerant bacteria and Its Potential application in bioremediation and bio-beneficiation” IMPC 2012, New Delhi.”
8	Surbhi Krishna Singh, Ranjit Prasad, Panindre Anup Manohar; “Replacement of ITO (Indium Tin Oxide) by Carbon Nanotubes as Anode in Organic Light Emitting Diodes”, Proceedings of NMD 2011, Hyderabad, Nov 2011, PP.
9	Surbhi Krishna Singh, Ranjit Prasad, Panindre Anup Manohar; “Assessment of Quality of Coal Mined from the Damodar Valley Region and its Effective Industrial Utilization”, Proceedings of NMD 2011, Hyderabad, Nov 2011, PP.
10	Sumit Kumar Das, Ranjit Prasad , “Use of Low Grade Iron Ore in India- the need of the time”, Proceedings of NMD 2011, Hyderabad, Nov 2011, PP.
11	Ashutosh Gupta, Ranjit Prasad, “Mathematical Modeling of using Ausmelt slag in Fuming furnace Operation” Proceedings of NMD 2011, Hyderabad, Nov 2011, PP.
12	Swati Shallika, Ranjit Prasad & Meenu Verma, “Screening of multiple Heavy Metal tolerant bacteria And Its Potential application in bioremediation”, Proceedings of NMD 2011, Hyderabad, Nov 2011, PP.
13	Ansul Gupta, Ranjit Prasad & Rahul Prasad, Heat and Mass Balance based Modelling of Basic Oxygen Furnace”, Proceedings of MPT 2011, Udaipur, Oct 2011, p.146.
14	Ranjit Prasad, Sumit Kumar Das, K.K.Prasad, “Singhbhum - The Treasure of Minerals in India”, Proceedings of MPT 2011, Udaipur, Oct 2011, p150.
15	Supriya & Ranjit Prasad, “Waste management in aluminium industries: a review”, Proceedings of MPT 2011, Udaipur, Oct 2011, p147.
16	Ranjit Prasad, Swati Shallika, Meenu Verma, “Assessment of the Mutational Techniques to enhance the Metal Tolerance in Microbes and its Implication in Mining Industries” Proceedings of MPT 2011, Udaipur, Oct 2011, pp. 104-105.
17	Ranjit Prasad, Meenu Verma, Kirti Kumari & K.K.Prasad “Microbial co-

	operation in biomining of uranium A review”, NMD 2010, IISc Bangalore,
18	Ranjit Prasad, Swati Shallika, Sazya Firdouse & Poonam kumara, ”Isolation and characterization of microbial community and its function in heavy metal contaminated soil using molecular methods”, NMD 2010, IISc Bangalore, Nov 2010, pp. – 65 (P4.17)
19	Ranjit Prasad, Swati Shallika & Sazya Firdouse, ”Genetic engineering strategies for improvisation phytoextraction of heavy metals”, NMD 2010, IISc Bangalore,
20	Ranjit Prasad, Ashutosh Mohan, Aveenash Neer & Bauwaji and Akhilesh chaudhary, ”Beneficiation of low grade Iron Ore A Review” NMD 2010, IISc Bangalore, Nov 2010, pp. – 93 (P5.73) .
21	S.N.Sinha, Ranjit Prasad & M.K.Agrawal, 2008, “Environmental issues and protection in Copper industries”, DNFI-2008, IIM & HCL, Ghatsia, Dec. 2008., pp. 87-95
22	R.Prasad, M.K.Agrawal, S.N.Sinha & K.K.Prasad, 2008, “Issue of mining industries in Jharkhand: A review”. National seminar on Enviromental Management in Mining and Allied Industries (EMMA 2008), B.H.U., Nov.,2008, pp.479-486.
23	Ranjit Prasad, S.N.Sinha, Babli & S.Ranganathan, 2008,” Thermo-chemical changes in chromite ore heated in oxidizing and reducing condition” ETCE 2008, IIE, Jamshedpur Chapter, Oct. 2008, pp. [XV].
24	S.Ranganathan, Ranjit Prasad, S.N.Sinha & Babli, 2008,” Chrom_ore_reduction: Review “ 46th National Metallurgists’ Day & 62st Annual Technical Meeting of Indian Institute of Metals, Mumbai, IIT Delhi and IIM Delhi, 13-16,Nov. 2008, Pp.
25	Ranjit Prasad,H.K.Dutta & K.K.Prasad, 2008,” Petrography and Metallurgical Properties of Iron Ore from Keonjhar, Orissa“ 46th National Metallurgists’ Day & 62st Annual Technical Meeting of Indian Institute of Metals, Mumbai, IIT Delhi and IIM Delhi, 13-16,Nov. 2008, Pp.
26	Ranjit Prasad, 2007, “Converting waste in to wealth in steel plant, International Symposium on Energy Related materials”, 45th National Metallurgists’ Day & 61st Annual Technical Meeting of Indian Institute of Metals, Mumbai, IIT Mumbai and IIM Mumbai, , Pp.267,
27	S.N. Sinha , M.K. Agrawal and R. Prasad, 2007, “Recovery of energy from steel plant wastes”, National Seminar on Energy Efficiency in Foundries and Secondary Steel Sector, NIFFT Ranchi, Aug 07, pp.58-64.
28	S.N. Sinha, Ranjit Prasad & M.K. Agrawal, 2007, “Industry-Institute Partnership”, National Workshop on Industry-Institute Interaction, BIT Sindri, July 07, pp.91-97
29	Ranjit Prasad and R.S.Karmarkar, 2007, “Weathering of Coal by Oxygen”, National Conference on Coal Resources in hindi, NML Jamshedpur, Mar 07, vol.??, pp.
30	Ranjit Prasad, R.S.Karmarkar and S.N.Sinha, 2007,” Pre-carbonisation methods: Importance & Need “, National Conference on Coal Resources in hindi, NML Jamshedpur, Mar 07, pp.
31	K.Parmar, R. Prasad and S.N.Sinha, 2006, “Role of Physics in Environmental Management, National Workshop on Convergent with Physics,” JWC and BRNS Munmbai, Oct06, pp. 71-78.

***Responsibilities Hold:***

**Govt. level:**

Worked as:

Member, Mine Advisory Committee, Jharkhand Govt.

**Institute Level:**

Worked as:

Program Coordinator, National Service Scheme(NSS), NIT Jamshedpur

Coordinator, Community Services, TEQIP (An World Bank Project) ,

Asst. Warden, Nirala Hall of Residence, NIT, Jsr

Member, Unfair means Committee, NIT, Jsr

P/I Blood Donation, TSG, NIT, Jsr

Join Coordinator, Inter-College Cricket Tournament 07

**Department Level :**

Working as:

P/I Geology Lab,

P/I Mineral Dressing Lab,

P/I Tour & Training

P/I Departmental Library

Faculty Advisor cum tabulator

Worked as

P/I Departmental Meeting

P/I Computer Lab of the Deptt.

P/I Examination ( Departmental PTPG)

P/I Examination ( Departmental)

Member, TECHNICA (A National Level Seminar)

***Responsibilities at present:***

**Institute Level:**

P/I Medical Services,

**Department Level :**

P/I Society for Metallurgical Students (SMES),

Coordinator, TECHNICA (A National Level Students Seminar organized by

IIM Jamshedpur Chapter and SMES),

P/I Geology & Mineral Dressing Lab,

P/I Computer Lab of the Deptt.,

P/I Tour & Training

(Ranjit Prasad)