

Bio-data

Name : Parijat Roy
Designation : Scientist-C
Date of birth : 02-05-1981
Address : National Centre for Antarctic and Ocean Research, Ministry of Earth Sciences, Vasco-da-Gama, Goa
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Research experience:

Period	Designation / name of institute/ work carried out
February 2013 onwards	Scientist - C
September 2012- 22 nd February 2013	INSPIRE Faculty at NGRI Hyderabad
April, 2010-August 2012	CSIR-Research Associate, at NGRI, Hyderabad,
April, 2008-March, 2010	CSIR-Senior Research Fellow, at NGRI, Hyderabad,
November,2006-March, 2008	Research Assistant in Indo-Russian Project at NGRI, Hyderabad on “Study and prediction of noble metal mineralization in non-traditional geological formations and developing methods for identification of such mineralization in East-Russia and South India”.
December, 2004-October-2006	CSIR-Intern, at NGRI, Hyderabad
July, 2004-November, 2004	Adhoc lecturer at Department of Geology, Nagpur University.

On-going projects as PI

1. PGE geochemistry of mafic-ultramafic rocks from Dharwar Craton: Implication for understanding the nature of mantle below Dharwar, Southern India.
Funded by Department of Science and Technology (DST): INR 35 lakhs.
2. PGE geochemistry and isotopic systematic of basalts and gabbros from super-fast spreading crust in Pacific Ocean.
Funded by NCAOR, Ministry of Earth Sciences: INR 7.09 lakhs.

Fellowships, Awards and Honors:

1. **ISCA Young Scientist Award** in Earth System Sciences category in 100th Science Congress held at Kolkata during 3rd-7th January, 2013.

2. **INSPIRE Faculty Award 2012** by DST and INSA in Earth & Atmospheric Sciences
3. **Young Scientist Award-2011** by Andhra Pradesh Academy of Sciences in the field of Earth, Ocean and Atmospheric Sciences.
4. Secured **8th Merit** in B.Sc. Examination in Nagpur University in 2002.
5. **Gold Medalist** in M.Sc. Examination in Nagpur University 2004.
6. Awarded **CSIR Intern** at NGRI in 2004.
7. **Best Paper Presentation Award** by Indian Society of Analytical Scientist and Indian Institute of Chemical Technology, Hyderabad at National Seminar, February, 2008.
8. Awarded **CSIR Senior Research Fellow** in April, 2008.
9. **Best Poster Award** by Indian Society of Analytical Scientist and IHBT, Palampur at National Seminar, October, 2008.
10. Awarded **CSIR-Research Associateship** in 2010.
11. Selected as **Associate Fellow** Andhra Pradesh Academi of Sciences, 2010.
12. **Visiting faculty** at Post Graduate Department of Geology, Institute of Science, Aurangabad since March, 2012

Publications:

Citation details: <http://scholar.google.co.in/citations?user=N6CEwY8AAAAJ&hl=en>

1. **Parijat Roy**, V. Balaram, Anil Kumar, M. Satyanarayanan and Gnaneshwar Rao T. New REE and trace element data on two kimberlitic reference materials by ICP-MS. *Geostandard and Geoanalytical Research*, **Vol.31, No.3 pp 261-273**, (2007).
2. **Parijat Roy**, Vysetti Balaram, Abhijit Bhattacharaya, Pritam Nasipuri and Manavalan Satyanarayanan Estimation of Ti, Zr, Nb, Hf, Ta, Th, and U in Beach Placers and Ferrodiorites by ICP-MS using Lithium Metaborate Fusion Digestion Technique. *Current Science*. **Vol.93.No.8, 25**, (2007).
3. Satyanarayanan, V.Balaram, **Parijat Roy**, Gnaneshwar Rao, Interlaboratory collaborative analysis of rainwater reference material. *Current Science*, **Vol. 91, No. 2, 25**. (2006)
4. **Parijat Roy**, V.Balaram, A.K.Krishna, R.S.Singh, C.D Chavan, S.N.Charan, N.N.Murthy. A Simplified and Rapid Method for the Determination of Sulphur in kimberlites and other Geological Samples by Wavelength-Dispersive X-ray Fluorescence Spectrometry. *Atomic spectroscopy*, **Vol 30 (5), 178-173**, (2009).
5. **Parijat Roy**, V.Balaram, Gnaneshwar Rao and M. Satyanarayanan. Determination of Ultra low level Platinum Group of Elements in Kimberlites by ICP-MS: Modified Decomposition procedure using Double NiS Fire Assay followed by Te co precipitation. *Advances in Geosciences, EUG publications, vol. 20, Solid Earth, 121-136*. (2010)
6. **Parijat Roy**, V.Balaram, S.S. Sawant, M. Satyanarayanan, K.S.V.Subramanyam, K.Vani, K.Srivalli, Determination of Platinum Group Elements in Kimberlites by ICP-MS: Modified Decomposition procedure using Double NiS Fire Assay followed by Te co precipitation. *Atomic Spectroscopy*, **Vol 31 (2), 35-43**. (2010)

7. M. Satyanarayanan, V. Balaram, **Parijat Roy**, K.V.Anjaiah, Trace, REE and PGE geochemistry of the mafic and ultramafic rocks from Bundelkhand Craton, Central India. *Advances in Geosciences, EUG publications, vol. 20, Solid Earth, 121-136.* (2010)
8. **Parijat Roy**, V.Balaram and N.V.Chalapati Rao, The PGE geochemistry of the oncraton kimberlites from Eastern Dharwar Craton, Southern India. *Geochimica et Cosmochimica acta, Vol 73, A1127,* (2009).
9. V.Balaram and **Parijat Roy**, Abundances of Platinum Group of Elements and Gold in Kimberlites from Eastern Dharwar Craton, Southern India *Geochimica et Cosmochimica acta, Vol73, A78,* (2009).
10. V. Balaram, K. Surya Prakash Rao and **Parijat Roy** , A Note on International Symposium on Carbon Management and Climate Change and Role of Applied Geochemistry in Mineral Exploration. *Journal of Geological Society of India, Vol. 75, 566-567,* (2010).
11. **Parijat Roy**, V. Balaram, D.V.Subba rao and S.N.Charan, Geochemistry and origin of archean anorthositic rocks from Khammam region, A.P. *Deep Continental Studies, DST Newsletter, Vol.21, (1), 13-18.* (2011).
12. Damon Teagle,**Parijat Roy**,..... The Expedition 335 Preliminary Report, http://publications.iodp.org/preliminary_report/335/ (doi:10.2204/iodp.pr.335.2011). (2011)
13. Damon Teagle,**Parijat Roy**,..... Battling through the thermal boundary layer: Deep sampling in ODP Hole 1256D during IODP Expedition 335. *Inter Ridge Newsletter, Vol.20, 12-17.* (2011)
14. Balaram,V M.Satyanarayanan, D.V.Avdeev*, N.Berdhikov* **Parijat Roy**, S.S.Sawant, K.V.S.Subramanyam, K.V.Anjaiah, C.T.Kamala and Ramavathi Mathur Use of xenon as an internal standard for the determination of trace elements in water samples by ICP-MS *Atomic Spectroscopy, Vol.33, 2, 41-47.* (2012)
15. Damon Teagle,**Parijat Roy**,..... IODP Expedition 335: Deep Sampling in ODP Hole 1256D. *Scientific Drilling*, 13, 28-34. (2012)
16. V.Balaram, Ramavathi Mathur M. Satyanarayanan, S.S.Sawant, **Parijat Roy**, K.S.V.Subramanyam, C.T.Kamala, K.V.Anjaiah, S.L.Ramesh and B. Dasaram. (2012). A Rapid Method for the Determination of Gold in Rocks, Ores and other Geological Materials by F-AAS and GF-AAS after Separation and Preconcentration by DIBK Extraction for Prospecting Studies. *Journal of Metrology society of India.* 27(2):87-95
17. P.Saha, S.K. Acharya, V.Balaram and **Parijat Roy**, Geochemistry of metavolcanic rocks from Tuting Ophiolites, Eastern Himalayan Syntaxis, India and their inferred tectonic setting. *Journal of Geological Society of India, 80, 167-176, 2012..*
18. K.S.V. Subramanyam, V. Balaram, U.V.B. Reddy, M. Satyanarayanan, **Parijat Roy** and S.S.Sawant, Implications of using Improper Calibration CRMs in Geochemical Analysis – A Case Study from Mafic Plutonic Rocks from East Cuddapah Basin, India, *Journal of Metrology society of India, (online).* 2012.

19. V. Balaram, V.K.Banakar, K.S.V. Subramanyam, **Parijat Roy**, M. Satyanarayanan, M.Ram Mohan, and S.S.Sawant. A Preliminary Note on Yttrium and Rare Earth Element Contents in Seamount Cobalt Crusts in the Indian Ocean *Current Science*, vol. 103, 11, 1134-1138 (2012).
20. Balaram Vysetti, Dharmendra Vumutti, **Parijat Roy**, Prasenjit Kar, Craig Taylor, Arun Kumar Raju, Determination of Gold, Silver, Platinum and Palladium in Rocks and Ores by Microwave Plasma Atomic Emission Spectrometry (MP-AES). *Current Science Vol. 104, No. 9, 1207-1215* (2013)
21. V. Balaram, **Parijat Roy**, K.S.V. Subramanyam, L. Durai, M.Ram Mohan, M.Satyanarayanan, S.S Sawant, S. S. Kalyan Kamal and K.Vani REE Geochemical Studies of Seawater from Afanasy-Nikitin Seamount in North Central Indian Ocean by High Resolution Inductively Coupled Plasma Mass Spectrometry. Indian Journal of marine sciences (*Accepted*) 2013.

Paper presented in International seminar:

1. International seminar on mass spectrometry, ISMAS, 2006, Munnar, Kerela,
2. AOGS, 2008, at Busan Korea, June 16-20.
3. International Platinum Symposium 2009, at Bhubaneswar December 1st -4th.
4. International Dyke conference 2010, BHU, February 3rd -7th.
5. AOGS 2010, at Hyderabad, July, 5-9.
6. 10th International kimberlite conference held at Bangalore during Feb, 2012
7. International Platinum Symposium held at Bangalore during 7-8th December, 2012.

Paper presented in National seminars:

1. Group discussion on Kimberlite and related rocks, Geological Society of India, Nov. 2005, Bangalore.
2. Mineralogical Society of India, MSI-2006, Pune.
3. National Seminar on Exploration of PGE, Gold and Diamond in India, at NGRI, July 2007
4. National seminar on Magmatism Tectonism and mineralization (MTM 2007), Oct 29-31, 2007, Nainital
5. National Seminar on Analytical Chemistry: Vision 2020, ISAS, Hyderabad, at IICT, Feb 27-28, 2008.
6. National Seminar on Analytical Innovations for Process and Technology Development, ISAS, at IHBT, Oct, 2008.
7. National Seminar organized by Indian Geological Congress at NGRI, Feb 2-5, 2009.
8. National Seminar organized by SRTM University, Nanded and ISAG Hyderabad at Nanded during 29-30 January, 2011.

Professional Trainings:

1. Department of Science and Technology, Govt. of India Sponsored Training Programme on “**Art of Petrography**” held at Banaras Hindu University during April 2006.
2. Department of Science and Technology, Govt. of India Sponsored Advance Training Programme On “**Modeling of Magmatic and Allied Processes**” held at Kumaun University during October, 2007.
3. Department of Science and Technology, Govt. of India Sponsored Training Programme on “**Application of ICP-MS in Earth system Sciences**” held at NGRI during June, 2006.

4. NGRI and IMMT sponsored **Short Course on “New development in Magmatic Ni-Cu and PGE Deposits”** by **Edward M Ripley and Tony Naldrett** at IIMT Bhubaneswar during December 2009.
5. Geological Society of Indian training Programme on "**Recent advances on Chromitite, PGE and Ni-Cu Sulphide deposits with special reference to the Nuggihalli Schist Belt (NSB), Karnataka, India**" during October 2010.
6. **International Summer School** held at Kyoto Japan from 26th August-10 September 2011, by **JSPS under JENESYS programme**.
7. Geological Society of Indian International training Programme and Short Course on **“Magmatic Ore Deposits: Geology, Ore Genesis and Exploration (PGE, Ni-Cu sulphide, Cr, Ti and V)”** held during 1-2 December at Mysore, India.
8. Department of Science and Technology, Govt. of India Sponsored Training Programme on **“Geochemical Modelling in Igneous Petrogenesis: An introduction to GCD kit”** held during 12-15 January, 2013 at CSIR-NGRI Hyderabad.

Memberships:

1. Life Member Indian Society of Applied Geochemistry.
2. Secretary elected Society of Exploration Geophysicists (SEG, Houston, USA) for the NGRI Student Chapter, 2009-2010.
3. Life member Society of Petroleum Geophysicist (SPG), since 2010.
4. Annual member Indian Science Congress Association since 2012.