

## PROFILE

Name : **Vikoleno Rino**  
Designation : Professor  
Date of Joining University : 27.06.2005  
Email ID : [vikolenorino@nagalanduniversity.ac.in](mailto:vikolenorino@nagalanduniversity.ac.in)  
Contact No : Mobile -8787467916  
Educational Qualifications : M.Sc. (Nagaland University), Ph.D. (Kumaun University)  
Specialization : Igneous Petrology & Geochemistry

### Professional Career

Sl No	Position held	Institution	Period
1	Lecturer	Kohima Science College	07.07.2003 to 31.10.2004
2	Research Associate (CSIR)	Nagaland University	01.11.2004 to 26.06.2005
3	Assistant Professor	Nagaland University	27.06.2005 to 02.06.2018
4	Academic In-charge (exam), Kohima Campus	Nagaland University	23-03-2020 to 23.06.2022
5	Associate Professor	Nagaland University	03.06.2018 to 03.03.2023
6	Professor	Nagaland University	Since 04.03.2023

**Ph.D Topic:** Early Proterozoic Malanjkhand granitoids and their enclaves, central India: typology, mineralogy, geochemistry and petrogenesis

### Professional Recognitions

1. B.Sc Gold Medallist, 1996
2. M.Sc Gold Medallist, 1998
3. ISCA Young Scientist Award Nominee, 2003
4. Best Paper Presentation during “National Workshop on Mineral Deposit Modelling”, Nagpur, 2005

### Publications

1. Santosh Kumar, **Vikoleno Rino** and A.B. Pal (2004) Field evidence of magma mixing from microgranular enclaves hosted in Palaeoproterozoic Malanjkhand granitoids, Central India. *Gondwana Research*, v. 7, No. 2, pp. 539-548.
2. Santosh Kumar, **Vikoleno Rino**, and A.B. Pal (2004) Typology and Geochemistry of microgranular enclaves hosted in Malanjkhand granitoids, Central India. *Journal Geological Society, India*. v. 64, pp. 277-292.
3. Santosh Kumar, Thepfulvie Pieru, **Vikoleno Rino**, and Lyndoh, B.C. (2005) Microgranular enclaves in Neoproterozoic granitoids of South Khasi hills, Meghalaya plateau, Northeast India: field evidence of interacting coeval mafic and felsic magmas. *Journal Geological Society, India*. v.65, pp. 629-633. (Short communication).
4. Santosh Kumar, Thepfulvie Pieru, and **Vikoleno Rino**. (2005) Evaluation of granitoid-series and magmatic oxidation of Neoproterozoic South Khasi granitoids and their microgranular enclaves, Meghalaya: Constrains from magnetic susceptibility and biotite composition. *Journal of Applied Geochemistry*, v. 7, No. 2, pp. 175-194.

5. Santosh Kumar and **Vikoleno Rino**. (2006) Mineralogy and geochemistry of microgranular enclaves in Palaeoproterozoic Malanjkhanda granitoids, central India: evidence of magma mixing, mingling, and chemical equilibration. *Contribution to Mineralogy and Petrology*, v. 152, No. 5, pp. 591-609.
6. Santosh Kumar and **Vikoleno Rino**. (2007) Redox series evaluation of Cu( $\pm$ Mo $\pm$ Au) hosting Palaeoproterozoic Malanjkhanda granitoids and enclaves, central India: evidence from magnetic susceptibility, phase petrology and geochemistry. *Journal Economic Geology Resource and Management*, v 4, pp 105-127.
7. Watitemsu Imchen, S.K. Patil, **Vikoleno Rino**, Glenn T. Thong, Temjenrenla Pongen and B.V. Rao (2015) Geochemistry, Petrography and Rock magnetism of the Basalt of Phek District, Nagaland. *Current Science*, v. 108, pp. 2240-2249.
8. Lanuinla, Aier, **Vikoleno Rino**, Santosh K. Singh (2015) Geology and Petrographic Characteristics of Nongpoh Granitoids from Meghalaya Plateau, Northeast India. *Nagaland University Research Journal*, v.8, pp. 176-186.
9. Santosh Kumar, **Vikoleno Rino**, Yasutaka Hayasaka, Kosuke Kimura, Shunmugam Raju, Kentaro Terada and Manjari Pathak (2017) Contribution of Columbia and Gondwana Supercontinent assembly- and growth-related magmatism in the evolution of the Meghalaya Plateau and the Mikir Hills, Northeast India: Constraints from U-Pb SHRIMP zircon geochronology and geochemistry. *Lithos*, v. 277, pp. 356-375.  
DOI:10.1016/j.lithos.2016.10.020.
10. Santosh Kumar, Thepfulvie Pieru, **Vikoleno Rino** and Yasutaka Hayasaka (2017) Geochemistry and U–Pb SHRIMP zircon geochronology of microgranular enclaves and host granitoids from the South Khasi Hills of the Meghalaya Plateau, NE India: evidence of synchronous mafic–felsic magma mixing–fractionation and diffusion in a post-collision tectonic environment during the Pan-African orogenic cycle. *Journal Geological Society London, Special Publication*, v. 457, pp.253-289. DOI: 10.1144SP457.10.
11. Anettsungla, **Vikoleno Rino\*** and Santosh Kumar (2018) Redox condition, nature and tectono-magmatic environment of granitoids and granite gneisses from the Karbi Anglong Hills, Northeast India: constraints from magnetic susceptibility and biotite geochemistry. *Journal Geological Society, India*, v. 91, pp.601-612. (*\*corresponding author*)
12. Santosh Kumar, Pundir, S., **Vikoleno Rino**, Bora, S., Pathak, M., Anettsungla, Joshi, H., Rawat, M.S., Pieru, T. and Singh, K. M (2022) Geochemistry of Proterozoic and Cambrian granites from Meghalaya Plateau, Northeast India: Implication on petrogenesis of post-collisional, transitional from I-type to A-type felsic magmatism. *Geological Journal*. v. 57, Issue 4, pp.1476-1510. DOI:10.1007/s11629-017-4410-3.
13. Meyase, D., **Vikoleno Rino\***, Kumar, S. and Nagi, R. (2023) Magnetic susceptibility, mineral chemistry, and geothermobarometry of granitoids from Lohit Plutonic Complex, Arunachal Trans-Himalaya, Northeast India: Implications on emplacement and crystallization conditions of oxidized calc alkaline magmatic arc system. *Island Arc*. 32(1):e12479. DOI: 10.1111/iar.12479. (*\*corresponding author*)
14. Luirei, K., Lokho, K., Zimik, H.V., **Vikoleno Rino.**, Chahong, N., Tiwari, S.K., Angkang, M., Khangrah, N., Richa, H.O., Neikha, K., Thong, G.T (2023) Stable hydrogen and oxygen isotope investigation of the saline and hyperalkaline springs in parts of the Inner Fold Belt and Ophiolite Complex of Manipur and Nagaland, India. *Himalayan Geology*, v. 44, Issue 2, pp. 9-14.

### **Research Projects**

1. DST sponsored: Shillong Basin and the Thrust and Ophiolite Belts of Indo-Myanmar Mobile Belt, North Eastern India: An Integrated Approach from Magnetostratigraphy and Palaeomagnetism. (**Co-PI**). (Rs. 21.77 Lakhs; Completed: 2006-2009).
2. SERB-DST sponsored: Redox series evaluation of Granitoid Plutons of Meghalaya Plateau, NE India: implication on petrogenesis, mineralization potential and geodynamics. (**Co-PI**). (31.92 Lakhs; Completed: 2012-2016).
3. SERB-DST sponsored: Granite series evaluation of Trans Himalayan Lohit plutonic complex, eastern Arunachal Pradesh: constraints from magnetic susceptibility, mineral chemistry and geochemistry. (**PI**). (29.44880 Lakhs; Completed: 2018-2022).

### **Courses / Trainings attended**

1. DST Contact Programme on “Art of Petrography: a valuable guide for Petrologists” at BHU, Varanasi (2000).
2. UGC sponsored Orientation Programme at NEHU, Shillong (2013).
3. UGC sponsored Refresher Course at BHU, Varanasi (2013).
4. DST sponsored Field training workshop on “Stratigraphy, Sedimentary and Tectonics along Jammu-Leh-Shyok transect (2014).
5. Refresher Course at the Indian Academy of Sciences, Bangalore on “Crystallography, Mineralogy, Igneous Petrology, Thermodynamics, Ore Geology and Organic Geochemistry” (2016).
6. E-training on “Refresher course in STM and Structural Geology” conducted by RTD-FTC, WR, GSITI, Jaipur (2020).
7. E-training on “Phase equilibria modelling in petrology -practical approach using Perple-X”, conducted by RTD, ER, GSITI, Kolkota (2021).
8. Faculty Development Program on Design, Develop and Deliver (Online/Blended Learning Courses) conducted by Department of Teacher Education, NU, Kohima (2023).

### **Seminars / Workshops attended**

1. International Symposium on Applied Geochemistry in the coming decades, NGRI, Hyderabad (2001).
2. International Conference on Quaternary climate, tectonics and environment of Himalaya: Comparison with other regions, Kumaun University, Nainital (2002).
3. 90th Indian Science Congress, Bangalore University, Bangalore (2003).
4. Second NE School on Computational Information Processing at Kohima Science College (2004).
5. National Workshop on “Mineral Deposit Modelling and 7th Annual Convention of SAAEG”, Nagpur (2005).
6. National seminar on geology and resources of NE India: progress and prospectives and AGM meeting of Geological Society of India, Kohima (2005).
7. DST sponsored Brainstorming session on Landslides of northeast India at Kohima (2009).
8. UGC Workshop on “Capacity Building of Women Managers in Higher Education” at Kohima (2012).
9. Seminar on celebrating the indigeneity of Naga women at Nagaland University, Kohima (2013).

10. Regional workshop for young scientists on tectonics, sedimentation and geohazards with special reference to NE India (2015).
11. National seminar on “Geology, Geochemistry, tectonics, energy and Minerals resources of North east India”, Department of Geology, Nagaland University, Kohima Campus (2016).
12. National seminar on “Gender, social justice and Human Rights with reference to North east India, Nagaland University, Kohima Campus (2017).
13. National seminar on Mental health in work place, Department of Psychology, Nagaland University, Kohima Campus (2017).
14. 105<sup>th</sup> Indian Science Congress, Manipur University, Imphal (2018).
15. National workshop cum Seminar on “Goods and Services Tax (GST) in India Department of Commerce, Nagaland University, Kohima Campus, Meriema and National Institute of Electronics & Information Technology (NIELIT), Kohima (2018).
16. DST Contact workshop on “Advanced Petrography”, Department of Geological Sciences, Gauhati University, Guwahati (2018).

### **Supervision of Ph.D. Thesis / M. Sc. Dissertation**

#### ***Ph.D Awarded (02)***

1. Mr. Watitemsu (2014) Paleomagnetic investigations of the rocks of parts of central and eastern Nagaland
2. Mrs. Anettsungla (2023) Magnetic susceptibility, petrology and geochemistry of granitoids in parts of Karbi Anglong Hills, Assam

#### ***Ph.D Registered (03)***

1. Ms. Diezenino Meyase: Petrology and geochemistry of felsic magmatic rocks of Dibang valley, Arunachal Pradesh.
2. Ms. Rokozono Nagi: Petrology and geochemistry of granitoids of Lohit valley, Arunachal Pradesh.
3. Mr. Yengkokpam Pradip Singh: Petrology and geochemistry of granitoids in the western parts of Mikir hills, Assam

#### ***M.Sc. Dissertation completed (34)***

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|--------------------------|------|
| 1. Igneous Petrology     | - 17 |
| 2. Environmental Geology | -11  |
| 3. Hydrogeology          | - 04 |
| 3. Structural Geology    | -01  |
| 4. Ore Geology           | -01  |

### **Examiner / Evaluator (M. Sc)**

1. Manipur University, Imphal.
2. Patkai Christian College (Autonomous), Chümoukedima.

### **Member of Selection Committee**

1. Subject expert for recruitment of faculty, Patkai Christian College (Autonomous), Chümoukedima.

### **Member, Academic Bodies**

1. Board of Post Graduate Studies in Geology, Nagaland University, Kohima Campus.
2. School Board of Sciences in Geology, Nagaland University, Kohima Campus.
3. Board of Post Graduate Studies in Agronomy, School of Agricultural Sciences and Rural Development, Nagaland University.

4. Board of Post Graduate Studies in Environmental Sciences, Nagaland University.
5. Board of Studies in Geology, Patkai Christian College (Autonomous), Chümoukedima, Dimapur, Nagaland.

### **Editorial Board Member**

1. National Seminar on Geology & Energy Resources of NE India: Progress & Perspectives. Department of Geology, Nagaland University & Geological Society of India, Bangalore, Kohima.

### **Membership of Professional Societies**

1. Life member, South Asian Association of Economic Geologists (SAAEG), India.
2. Life member, Indian Society of Applied Geochemists (ISAG), Hyderabad.

### **Miscellaneous**

1. Judge, High School and Higher Secondary Students' Essay Competition on Renewable Energy on occasion of Rajiv Gandhi Diwas: Directorate of New & Renewable Energy, Government of Nagaland, Kohima (20th August 2010).
2. Member, Standing committee of SC/ST.
3. Member, Governing/Advisory Body of Kohima Science College
4. Member, Board of studies, Kohima Science College, Jotsoma
5. Member, Board of studies, Patkai Christian College, Chumukedima
6. Member, Governing Bodies of Oriental College, Kohima.
7. SWAYAM Programme Coordinator in Geology, Nagaland University, Kohima Campus (since 2018).
8. Subject expert for Assistant professor selection at Patkai Christian College, Chumoukedima (2018).
9. Online exam coordinator (2020), Nagaland University, Kohima Campus.
10. Online exam coordinator in Geology (2020 & 2021), Nagaland University, Kohima Campus.
11. Convenor, Organizing Committee, Nagaland University of e-class on "Understanding Gemology" in collaboration with Institution of Geoscientist, Odisha (IGO), Bhubaneshwar (18<sup>th</sup> to 22<sup>nd</sup> January, 2021).
12. Subject expert for selection of Assistant professor at Patkai Christian College, Chumoukedima (2021).
13. Convenor, Admission Committee in Geology (2021), Nagaland University, Kohima Campus.

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