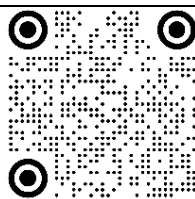


DEBADITYA BANDYOPADHYAY

Date of Birth: 16th May, 1990

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[Institute of Earth Sciences, Academia Sinica](#)
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I. APPOINTMENTS:

August, 2023 – Present: Postdoctoral Fellow; Institute of Earth Sciences, Academia Sinica [Host Supervisor - Prof. Sun-Lin Chung] [[Webpage](#)]

September, 2022 – July, 2023: Post-doctoral Fellow; Dept. of Geology, University of Calcutta. [Host Supervisor – Dr. Biswajit Ghosh]

August, 2022 – September, 2022: Visiting Researcher; Earthquake Research Institute, the University of Tokyo. [Host Supervisor – Prof. Hikaru Iwamori]

July, 2021 – August, 2022: Post-doctoral Fellow (Project Researcher); Earthquake Research Institute, the University of Tokyo. [Host Supervisor – Prof. Hikaru Iwamori] [[Introduction webpage](#)] (16.07.2021 to 15.08.2022)

July, 2019 – June, 2021: Assistant Professor (contractual) in Dept. of Geology, University of North Bengal, India.

April, 2018 – June, 2019: Part Time Faculty in Dept. of Earth Sciences, JIS University, India.

February, 2015 – January, 2018: DST-INSPIRE Fellow (SRF) in Dept. of Geology, University of Calcutta.

February, 2013 – January, 2015: DST-INSPIRE Fellow (JRF) in Dept. of Geology, University of Calcutta.

Short term:

11th Feb, 2021 – 30th June, 2021: Member, Board of Studies of Dept. of Earth Sciences and Dept. of RS-GIS, JIS University, India.

21st May, 2019 – 25th May, 2019 & 15th November, 2018 – 23rd November, 2018: Guest Faculty in Dept. of Geology, University of North Bengal, India.

7th June, 2017 – 14th July, 2017: Guest Researcher at the Department of Earth Sciences, Utrecht University. [Host Supervisors – Dr. Douwe J. J. van Hinsbergen, Dr. Alexis Plunder]

3rd November, 2016 – 29th November, 2016: Short-Term Research Internship in the Department of Natural History Science, Hokkaido University. [Host Supervisor – Dr. Marie Python]

April, 2015 – March, 2019: Assistant Secretary, The Geological, Mining and Metallurgical Society of India.

September, 2013 – February, 2014: Students' Representative for PhD. Course Work in the Dept. of Geology, University of Calcutta.

October, 2012 – January, 2013: Research Scholar in Dept. of Geology, University of Calcutta.

II. EDUCATION:

2020 - Ph.D. in Geology, University of Calcutta, Kolkata, India

Topic of Doctoral Research: Archean Sittampundi Layered Anorthosite Complex and Cretaceous Andaman Ophiolite: Contrasting Geodynamic History of Indian Plate from Petro-Geochemical Study [*Supervisor: Dr. Biswajit Ghosh*].

Full text thesis is available from Shodhganga repository <http://hdl.handle.net/10603/358930>

2012 - M.Sc in Applied Geology [University of Calcutta, Kolkata, India] (**1st Rank in the University**).

M.Sc Thesis: Origin and Thermobarometric Evolution of Symplectites and Kelyphites from Sittampundi Layered Anorthosite Complex, Tamil Nadu, India. [*Supervisor: Dr. Biswajit Ghosh*].

2010 - B.Sc in Geology (Honours) [Asutosh College, University of Calcutta, Kolkata, India].

III. RESEARCH INTEREST:

Unsupervised machine learning and data-driven approaches in geochemical discrimination.

Early earth geodynamics - Stagnant lid to mobile lid transition and petrological manifestation.

Petrological and geochemical modelling (e.g., Metamorphic phase equilibria, numerical melting experiments).

Morphology and thermobarometric quantification of various reaction and alteration microstructures

In-depth petrological, geochemical and geochronological investigation of ophiolite complexes to understand broad scale geodynamic framework, subduction initiation mechanisms.

IV. AWARDS AND ACHIEVEMENTS:

1. Fully funded post-doctoral fellowship for 12 months in the Earthquake Research Institute (ERI), The University of Tokyo (2021 Fiscal Year)
2. Served as team member (with Dr. Biswajit Ghosh, and GSI team) in 36th IGC field trip project **“Geological Studies in parts of Andaman Islands towards generating field/laboratory database of the IGC 2020 field excursion along the route Port Blair-Chidiyatapu-Baratang-Havelock Island”** [ER010]
3. **University of Calcutta Travel Grant** to attend Goldschmidt Conference (held at Paris, France; from 13th Aug. to 18th Aug, 2017)
4. **GOLDSCHMIDT 2017 STUDENT AND EARLY CAREER GRANTS.**
5. **University Gold Medal** for standing **first in Class I** in M.Sc Curriculum (Applied Geology) – 2012. [[link](#) – page 12]
6. **Poster Prize** in the **EMU school** on "Mineral reaction kinetics: microstructures, textures, chemical and isotopic signatures" (held at the University of Vienna, AUSTRIA; from 19th Sep. to 23rd Sep, 2016).
7. **Financial grant (International Travel Support Scheme)** to attend 2nd European Mineralogical Conference [Science and Engineering Research Board, Government of India]
8. Selected in **Japan-Asia Youth Exchange Program in Science (Sakura Exchange Program in Science; Host Organization – Kanazawa University, Japan)** administered by Japan Science and Technology Agency. (28th Oct, 2015 – 12th Nov, 2015). [[link](#)]
9. **Prof. Nirmal Nath Chatterjee Medal (2015)** [The Asiatic Society]. [[link](#) – page 171]
10. **Prof. N.N. Chatterjee Memorial Book Grant** [The Geological, Mining and Metallurgical Society of India].
11. **Kalyan Mukherjee “61 Geology” Medal (2011-12)** [The Mining, Geological and Metallurgical Institute of India].
12. **INSPIRE Fellowship** (5th Advertisement, dt. 16th Jan, 2013) [Department of Science and Technology (DST)]. [[link](#) – page 9]
13. **FERMOR FUND** (The Geological Society, London) supported field excursions.
14. **Club HP Special Efforts Scholarship (2005)** [Hindustan Petroleum Corporation Limited].
15. **Somenath Bose Memorial Award (2003)** [Paschimbanga Vigyan Mancha - Sinthee Unit Committee].

V. MEMBERSHIP:

1. **Sakura Science Club** (since Nov, 2015)
2. **The Geological, Mining and Metallurgical Society of India** (Life Member)

VI. WORKSHOPS ATTENDED:

1. **EMU school on "Mineral reaction kinetics: microstructures, textures, chemical and isotopic signatures"** [MRK-2016] held at the University of Vienna, AUSTRIA from 19th Sep. to 23rd Sep, 2016. [[link](#)]
2. **Summer School on Crystallography, Mineralogy, Thermodynamics and Mantle Petrology** organised by National Centre for High Pressure Studies, Indian Institute of Science Education and Research Kolkata during 6th – 17th June, 2016.
3. **Two Days Workshop on FESEM with EDS and EBSD Facility** organised by **JEOL INDIA PVT LTD** at the Centre for Research in Nanoscience and Nanotechnology (CRNN), University of Calcutta, July, 2013.
4. **Pre-Conference (Granulites and Granulites 2013)** workshop on **“Calculating Metamorphic Mineral Equilibria”** held at the Indian Institute of Technology - Kharagpur on 8–10 January, 2013.

VII. GEOLOGICAL FIELD WORKS:

2022: (i) In and around **Mount Fuji**, JAPAN; (ii) In and around **Jogashima and Hamamoroiso, Miura Peninsula**, JAPAN
2021: (i) In and around **Mount Fuji and Hakone volcano**, JAPAN; (ii) **Andaman Ophiolite**, Andaman and Nicobar Islands; (iii) In and around **Mayodia Pass, Dibang Valley district**, Arunachal Pradesh
2020: (i) In and around Balotra and Sirohi, **Rajasthan** [as student instructor] mentioned in [GSI Bhuvismavvad](#), (ii) In and around **Sung valley, Shillong, Meghalaya**.
2019: (i) In and around Deogarh, **Odisha**, (ii) **Andaman Ophiolite**, Andaman and Nicobar Islands.
2018: (i) In and around **Dibang Valley district (Mayodia, Hunli, Etalin)**, Arunachal Pradesh, (ii) In and around Deogarh, **Odisha**

- 2017: (i) **Sittampundi Layered Anorthosite Complex**, Tamil Nadu; (ii) **Andaman Ophiolite**, Andaman and Nicobar Islands [Summary in [Douwe J.J. van Hinsbergen's webpage](#); travelinggeologist.com]
- 2015: (i) **Naga Ophiolite**, Nagaland; (ii) **Andaman Ophiolite**, Andaman and Nicobar Islands; (iii) In and around **Bhuj Area**, Gujarat.
- 2014: (i) In and around **Bhuj Area**, Gujarat; (ii) In and around **Rangpo**, Sikkim [Detailed Structural and lithological mapping, as student instructor].
- 2013: **Eastern Ghats**, Andhra Pradesh. [Pre-Conference (Granulites and Granulites 2013) Fieldtrip]
- 2012: **Kondapalle Layered Igneous Complex**, Andhra Pradesh.
- 2011: (i) **Dalli-Rajhara**, Chhattisgarh [Industrial Training under SAIL in fields of mining and exploration lithological mapping, structural mapping, slice mapping, grade calculation, and reserve estimation in iron ore mines]; (ii) **Granite-Greenstone belts of Chitradurga**, Karnataka [Structural and lithological mapping as a part of M.Sc curriculum]
- 2009: **Joda Iron ore Mines and Manganese Mines** (Tata Steel); Orissa. **Chaibasa (Limestone quarry)**, Jharkhand and **UCIL (Uranium mines Narwapahar, Jaduguda)**, Jharkhand [as a part of B.Sc Economic geology field work curriculum]
- 2008: **Delhi Supergroup, Baewar**, Rajasthan [as a part of B.Sc Structural mapping field work curriculum]
- 2007: In and around **Purulia**, West Bengal. [as a part of B.Sc geological field work curriculum]

VIII. PUBLICATIONS (including submitted, under review, in preparation): [[google scholar](#), [ResearchGate](#)]

PEER REVIEWED (* = Corresponding Author / equal contribution with first author)

- Roy, S.; Ghosh, B.; Chattopadhyaya, S.; **Bandyopadhyay, D.**; Dhar, A.; Koley, M.; Morishita, T.; Tripathi, S.K. - Mayodia ophiolitic complex of Arunachal Pradesh, India: a multistage evolutionary record during the Tethyan closure. *International Geology Review*. [DOI: [10.1080/00206814.2024.2312512](https://doi.org/10.1080/00206814.2024.2312512)] [in press]
- Chattopadhyaya, S.; Ghosh, B.; Liu, C.Z.; **Bandyopadhyay, D.**; Roy, S.; Dhar, A.; Koley, M.; Kumar, D. (2025) - Intraplate alkali basalts related to end-Cretaceous Deccan magmatism: implications for tectonomagmatic processes. In: Pandey, R.; Pandey, A.; Krmiček, L.; Cucciniello, C.; and Müller, D (eds). *Alkaline Rocks: Economic and Geodynamic Significance through Geological Time. Geological Society, London, Special Publication* vol-551, pp. 2023-2086. [DOI: [10.1144/SP551-2023-861](https://doi.org/10.1144/SP551-2023-861)]
- Neogi, S.; Pal, T.; **Bandyopadhyay, D.** (2023) - Late Mesoproterozoic to early Neoproterozoic evolution of the Meghalaya Gneissic Complex, NE India: significance in Rodinia assembly. *International Geology Review*, vol-65(15), pp. 2402-2425. [DOI: [10.1080/00206814.2022.2140210](https://doi.org/10.1080/00206814.2022.2140210)]
- Koley, M.; Ghosh, B.; **Bandyopadhyay, D.**; Roy, S.; Dhar, A.; Chattopadhyaya, S.; Kar, R.; Bhattacharya, S. (2022) - Unraveling the pre-metamorphic cooling history of the Koraput Alkaline Complex, India: constraints from feldspar exsolution texture. *Mineralogy and Petrology* vol-116, pp. 493-513. [DOI: [10.1007/s00710-022-00795-x](https://doi.org/10.1007/s00710-022-00795-x)]
- Dhar, A.; Ghosh, B.; **Bandyopadhyay, D.**; Morishita, T.; Tamura, A.; France, L.; Nguyen, D.K.; Boulanger, M.; Koley, M.; Roy, S.; Chattopadhyaya, S. (2022) The lower oceanic crust at ultraslow-spreading Southwest Indian Ridge: the inside story. *Gondwana Research*, vol-111, pp. 223–248. [DOI: [10.1016/j.gr.2022.08.008](https://doi.org/10.1016/j.gr.2022.08.008)]
- Roy, S.; **Bandyopadhyay, D.**; Morishita, T.; Dhar, A.; Koley, M.; Karmakar, A.; Chattopadhyaya, S.; Ghosh, B. (2022) Microtextural evolution of chrome spinels in dunites from Mayodia ophiolite complex, Arunachal Pradesh, India: Implications for a missing link in the “two-stage” alteration mechanism. *Lithos*, vol-420-421, 106719. [DOI: [10.1016/j.lithos.2022.106719](https://doi.org/10.1016/j.lithos.2022.106719)]
- Chattopadhyaya, S.; Ghosh, B.; **Bandyopadhyay, D.**; Koley, M.; Dhar, A.; Roy, S. (2022) Multistage evolution of subcontinental lithospheric mantle of Northwestern Deccan Volcanic Province, India: Constraints from the ultramafic xenoliths in alkali magma. *Journal of Earth System Science*, vol-131(53) [DOI: [10.1007/s12040-021-01793-x](https://doi.org/10.1007/s12040-021-01793-x)]
- Bandopadhyay, P.C.; van Hinsbergen, D.J.J.; **Bandyopadhyay, D.**; Licht, A.; Advokaat, E.L.; Plunder, A.; Ghosh, B.; Dasgupta, A.; Trabuco-Alexandre, J.P. (2022) Paleogeography of the West Burma Block and the eastern Neotethys Ocean: constraints from Cenozoic sediments shed onto the Andaman-Nicobar ophiolites. *Gondwana Research*, vol-103, pp. 335–361 [DOI: [10.1016/j.gr.2021.10.011](https://doi.org/10.1016/j.gr.2021.10.011)]
- Chatterjee, S.; **Bandyopadhyay, D.***; Takazawa, E.; Michibayashi, K. (2021) Orthopyroxene–magnetite symplectite in olivine gabbros from the lower crustal Oman Ophiolite: Oman Drilling Project, Hole GT2A. *Journal of Mineralogical and Petrological Sciences*, vol-116(3), pp. 170–175. [DOI: [10.2465/jmps.201130f](https://doi.org/10.2465/jmps.201130f)]
- Bandyopadhyay, D.***; Ghosh, B.; Guilmette, C.; Plunder, A.; Corfu, F.; Advokaat, E.L.; Bandopadhyay, P.C.; van Hinsbergen, D.J.J. (2021) Geochemical and geochronological record of the Andaman Ophiolite, SE Asia: From back-arc to forearc during subduction polarity reversal? *Lithos*, vol-380-381, 105853. [DOI: [10.1016/j.lithos.2020.105853](https://doi.org/10.1016/j.lithos.2020.105853)]

11. Plunder, A.; **Bandyopadhyay, D.**; Ganerød, M.; Advokaat, E.L.; Ghosh, B.; Bandopadhyay, P.C.; van Hinsbergen, D.J.J. (2020) History of subduction polarity reversal during arc-continent collision: constraints from the Andaman Ophiolite and its metamorphic sole. *Tectonics*, vol-39, e2019TC005762, [DOI: 10.1029/2019tc005762]
12. **Bandyopadhyay, D.**; van Hinsbergen, D. J. J.; Plunder, A.; Bandopadhyay, P. C.; Advokaat, E.; Chattopadhyaya, S.; Morishita, T.; and Ghosh, B. (2020) Andaman Ophiolite: An Overview. In: Ray, J. S. and Radhakrishna, M. (eds.), *The Andaman Islands and Adjoining Offshore: Geology, Tectonics and Palaeoclimate*, Springer International Publishing, Cham, pp.1-17. [DOI: 10.1007/978-3-030-39843-9_1]
13. Ghosh, B.; Mukhopadhyay, S.; Morishita, T.; Tamura, A.; Arai, S.; **Bandyopadhyay, D.**; Chattopadhyaya, S.; Ovung, T.N. (2018) Diversity and evolution of suboceanic mantle: constraints from Neotethyan ophiolites at the eastern margin of the Indian plate. *Journal of Asian Earth Sciences*, vol-160, pp.67-77. [DOI : 10.1016/j.jseas.2018.04.010]
14. Chattopadhyaya, S.; Ghosh, B.; Morishita, T.; Nandy, S.; Tamura, A.; **Bandyopadhyay, D.** (2017) Reaction microtextures in entrapped xenoliths in alkali basalts from the Deccan large igneous province, India: Implications to the origin and evolution. *Journal of Asian Earth Sciences*, vol-138, pp.291-305. [DOI : 10.1016/j.jseas.2017.01.028]
15. Ghosh, B.; **Bandyopadhyay, D.**; Morishita, T. (2017) Andaman-Nicobar ophiolites, India: Origin, Evolution and Emplacement. In: Bandopadhyay, P. C. and Carter, A. (eds). *The Andaman–Nicobar Accretionary Ridge: Geology, Tectonics and Hazards*. Geological Society, London, Memoirs, vol-47, pp.95–110. [DOI : 10.1144/M47.7]
16. Ghosh, B.; Morishita, T.; Gupta, B.; Tamura, A.; Arai, S.; **Bandyopadhyay, D.** (2014) Moho Transition Zone in the Cretaceous Andaman ophiolite, India: a passage from the mantle to the crust. *Lithos*, vol-198-199, pp.117-128. [DOI : 10.1016/j.lithos.2014.03.027]

Submitted / Under review:

1. Dhar, A.; Morishita, T.; Chattopadhyaya, S.; **Bandyopadhyay, D.**; Rao, N.V.C.; Chalapathi; France, L.; Nguyen, D.K.; Roy, S.; Koley, M. - Development of oxy-symplectites in a slow-spreading lower oceanic crust: Insights from the Atlantis Bank Gabbro Massif, Southwest Indian Ridge (*submitted*)

PUBLISHED ABSTRACTS (* = Presenting Author)

1. **Bandyopadhyay, D.***; Iizuka, Y.; Chung, S.L.; Lee, H.Y.; Iwamori, H.; Wang, K.L.; Pang, K.W.; Ghosh, B.; Dasgupta, A. (2024) - Tracking the progressive stages of alteration in serpentinites – an integrated petro-geochemical study from Andaman Ophiolite, SE Asia. *2024 Annual Conference of Geological Society Located in Taipei & Chinese Taipei Geophysical Society (held in National Dong Hwa University, Hualien, Taiwan from 7th May to 8th May, 2024)* [Information] (oral)
2. **Bandyopadhyay, D.***; Ghosh, B.; Iwamori, H. (2023) - Constraining the plate interface fluid composition during subduction infancy – an attempt by linking the metamorphic sole and peridotite from Andaman Ophiolite, India. *GOLDSCHMIDT 2023 (held in Lyon, France from 9th Jul to 14th Jul, 2023, attended remotely)* [DOI: 10.7185/gold2023.14616] (oral)
3. Dhar, A.; Ghosh, B.; **Bandyopadhyay, D.**; Morishita, T.; Tamura, A.; M.; Koley, M.; Roy, S. (2023) Development of oxy-symplectites in the oceanic lower crust at Atlantis Bank Oceanic Core Complex, Southwest Indian Ridge- manifestation of fluctuating oxidation state. *EGU General Assembly 2023, EGU23-440, updated on 22 Feb 2023*. [DOI: 10.5194/egusphere-egu23-440] (poster)
4. **Bandyopadhyay, D.***; Katsuki, Y.; Sakata, S.; Iwamori, H. (2022) - What spinel composition in rocks tells us: a combined approach from data-driven and physics-based modelling. *Japan Geoscience Union Meeting 2022 (Hybrid mode Makuhari Messe, Inc.; JAPAN from 22nd May to 27th May, 2022)* [abstract: <https://confit.atlas.jp/guide/event/jpgu2022/subject/MGI34-05/detail>] (oral)
5. Chatterjee, S.; **Bandyopadhyay, D.**; Takazawa, E.; Michibayashi, K. (2021) - Oxidation controlled symplectitic formation in olivine gabbros from Oman ophiolite, Oman Drilling Project, Hole GT2A. *Japan Geoscience Union Meeting 2021 (online from 30th May to 6th June, 2021)* [<https://confit.atlas.jp/guide/event/jpgu2021/subject/SCG41-02/crosssearch>]
6. **Bandyopadhyay, D.***; van Hinsbergen, D.J.J.; Plunder, A.; Ghosh, B.; Corfu, F.; Guilmette, C.; Advokaat, E.L.; Bandopadhyay, P.C. (2020) - Clues to Cretaceous subduction initiation in South-East Asia - A geochronological and geochemical perspective from the Andaman Ophiolite. *JpGU-AGU Joint Meeting 2020 (Virtual conference from 12th July to 16th July, 2020)* [abstract: <https://confit.atlas.jp/guide/event/jpgu2020/subject/SCG56-17/crosssearch>; iPoster: <https://jpgu-agu2020.ipostersessions.com/?s=AF-61-EC-77-15-73-53-1D-C0-7F-BD-AC-EB-F0-6A-B4#>] (oral & iPoster)
7. Chattopadhyaya, S.; Ghosh, B.; **Bandyopadhyay, D.**; Morishita, T. (2019) Identifying the Source Characteristics of Intraplate Alkali Basalts, Hosting the Lithospheric Mantle Xenolith from Kutch Area, Western India. *GOLDSCHMIDT 2019 (held in Barcelona, SPAIN from 18th Aug to 23rd Aug, 2019)* [<https://goldschmidt.info/2019/abstracts/abstractView?id=2019002143>] (poster)
8. Plunder, A.; **Bandyopadhyay, D.**; Advokaat, E.; Guilmette, C.; Ganerød, M.; Bandopadhyay, P.; van Hinsbergen, D. (2018) The metamorphic sole of the Andaman-Nicobar Islands: insights from petrology geochemistry and geochronology.

Geophysical Research Abstracts, Vol. 20, EGU2018-6169-1, 2018, EGU General Assembly 2018 [<https://meetingorganizer.copernicus.org/EGU2018/EGU2018-6169-1.pdf>] (poster)

9. **Bandyopadhyay, D[†]**; Ghosh, B.; Bera, A.; Morishita, T.; Tamura, A. (2017) Clue to the Subduction Initiation from Andaman-Nicobar Ophiolite: A Computational Petrologic Approach. *GOLDSCHMIDT 2017 (held in Paris, FRANCE from 13th Aug to 18th Aug, 2017)* [<https://goldschmidt.info/2017/abstracts/abstractView?id=2017003407>] (poster)

10. **Bandyopadhyay, D[†]**; Ghosh, B.; Nandy, S.; Palin, R.M. (2016) Thermobarometric evolution of reaction microstructures in “arclogite” – a case study from the Sittampundi Layered Anorthosite Complex, India. *2nd European Mineralogical Conference (held in Rimini, ITALY from 11th Sep to 15th Sep, 2016)* [<http://emc2016.socminpet.it/abstracts/abstracts-lists/111-programme/218-s10-mineral-reaction-kinetics-microstructures,-textures,-chemical-and-isotopic-signatures.html>] (poster)

11. **Bandyopadhyay, D. [†]**, Ghosh, B.; Nandy, S. (2013). Symplectites from garnetiferous metabasites, Sittampundi Layered Anorthosite Complex, Tamil Nadu, India – Relationship between morphology and thermobarometric evolution. *National Workshop on “Modern Geological and Geophysical Methods and Their Applications” (under aegis of IGU)* (oral & poster)

12. Chattopadhyaya, S.; Chatterjee, S.; **Bandyopadhyay, D.** (2013). Magmatic evolution and geodynamic setting of Kondapalle Layered Complex, Andhra Pradesh, India – Insights from chromitite and associated mafic-ultramafic rocks. *National Workshop on “Modern Geological and Geophysical Methods and Their Applications” (under aegis of IGU)* (poster)

OTHER PUBLICATIONS

1. Pal, T.; Bhattacharya, A.; Ghosh, B.; Koley, T.; Tripathi, S.K.; **Bandyopadhyay, D.**; Banerjee, K. (2020) ANDAMAN ISLANDS: An Anatomy of the Accretionary Prism in an Active Burma-Andaman-Java Subduction Zone. *Field Excursion Guide Book for 36th International Geological Congress 2020, Delhi (NCR) [IGC Code ER010]*

IX. SERVICE TO THE SCIENTIFIC COMMUNITY

PEER REVIEW

Reviewer for the journals: *Geochemical Journal*; *Geoscience Frontiers*; *Geological Journal*; *Geosystems and Geoenvironment*.

X. LIST OF PRESENTATIONS:

1. *Tracking the progressive stages of alteration in serpentinites – an integrated petro-geochemical study from Andaman Ophiolite, SE Asia* - Geochemistry Group Seminar, Institute of Earth Sciences, Academia Sinica on 26th March, 2024. (Invited lecture) [[announcement](#)]

2. Lecture cum demonstration for the training program on *Refresher Course on Phase Equilibria Modelling in Petrology* - organized by Regional Training Division, Eastern Region, Geological Survey of India, Kolkata from 29th May, 2023 to 31st May, 2023. (Invited lecture) [[announcement](#)]

3. Lecture cum demonstration for the training program on “*Advanced Course on Metamorphic Petrology with special reference to Geothermobarometry and Pseudosection Modelling*” conducted by the Petrology Division, Geological Survey of India, Training Institute, Hyderabad – delivered online from 26th April, 2023 to 28th April, 2023. (Invited lecture) [[announcement](#)]

4. *Tracing back the geodynamic history of the Cretaceous Andaman Ophiolite, SE Asia – A case of subduction polarity reversal?* – Seminar organized by Geodynamics group, Earth Sciences Institute of Orléans on 18th October, 2022. (Invited lecture)

5. *Earth as an evolving planet* - a special lecture organised by Department of Geography, North Bengal St. Xavier's College on 14th December, 2021. (Invited lecture) [[announcement](#)]

6. *Deciphering subduction polarity reversal from the Cretaceous Andaman Ophiolite, SE Asia* – Earthquake Research Institute, The University of Tokyo Friday Seminar on 29th October, 2021. (Invited lecture) [[announcement](#)]

7. *Subduction polarity reversal in rock record – story from Andaman Nicobar Island* - the 13th edition EGU GMPV (Geochemistry, Mineralogy, Petrology and Volcanology division) ECS Campfires – Special Edition on Subduction Zones! on 13th October, 2021. (Invited lecture) [[announcement](#)]; in twitter [1](#), [2](#)

8. *Phase equilibria modelling (pelitic & mafic rocks) using Perple_X program* – delivered on 26th June, 2021 as a part of the e-training programme entitled “Refresher Course on Igneous, Sedimentary and Metamorphic Petrology” organized by Regional Training Division, Eastern Region, Geological Survey of India, Kolkata from 21st June, 2021 to 28th June, 2021. (Invited lecture) [[announcement](#)]

9. *Andaman Ophiolite: New data and tectonic model* - Sakura-Science Program ONLINE SEMINAR – 2021 (22nd February, 2021). (Invited lecture)

10. **Phase Equilibria Modelling in Petrology – Practical approach using Perple_X** - e-Training organized by Regional Training Division, Eastern Region, Geological Survey of India, Kolkata from 27th January, 2021 to 29th January, 2021. (*Invited lecture*) [[announcement](#); [Course report](#)]
11. **Evolution of the Earth's Crust** – Webinar organised by the **Department of Earth Sciences, JIS University** on 7th May, 2020. (*Invited lecture*) [[JIS University announcement](#); [post](#)]
12. **Microstructural evolution of a retrogressed garnet-websterite – Clue to delamination driven deep crustal recycling, melting and resurfacing in Precambrian Indian Peninsula** – Solid Rock Seminar (SRS) in the **Department of Earth Sciences, Utrecht University** on 7th July, 2017.
13. **Thermobarometric evolution of reaction microstructures in “arclogite” – a case study from the Sittampundi Layered Anorthosite Complex, India** - in the **Department of Earth and Planetary Sciences, Hokkaido University** on 11th November, 2016.
14. **Plate Tectonics –Our recent understandings - Training Program** for JTA (Geology) and Lab Assistant Gr. I (Geology) of **Geological Survey of India** on 13th Oct, 2015. (*Invited lecture*)
15. **Understanding Symplectic Morphology - Present Status and Future Prospects** - Regional Brain Storming Session titled “**36th IGC: A Unique Opportunity for Advancement of Geosciences**” organised by 36th International Geological Congress, WOCS held at Saha Institute of Nuclear Physics, Kolkata on 21-22 March, 2014. (*Invited as Young Geoscientist*).