

# Raman Kumar Biswas

## Dr. Raman Kumar Biswas

MS and PhD (Tohoku University, Japan)  
&

Associate Professor and Chairman  
Dept. of Disaster Resilience and Engineering  
Faculty of Environmental Science and Disaster Management  
Patuakhali Science and Technology University, Dumki,  
Patuakhali, Bangladesh-8602.



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## Education

- 🚩 Ph. D. (Oct 2016–Nov 2020) Tohoku University, Sendai, Japan.
  - Thesis; “Terrestrial Ecosystem Collapse and Soil Erosion before the End-Permian Marine Extinction: Organic Geochemical Evidence from Marine and Non-Marine Records”
  - Advisor; Prof. Dr. Kunio kaiho
  - Result; Passed
- 🚩 M.S in Earth Science (Oct 2014–Sep 2016) Tohoku University, Sendai, Japan.
  - Thesis; “Land ecosystem collapse followed by marine environmental stress spanning the Permian-Triassic mass extinction”
  - Advisor; Prof. Dr. Kunio kaiho
  - Result; First Class
- 🚩 M.Sc. in Geology & Mining (2005–2006) Rajshahi University, Bangladesh (*Exam held in 2008*)
  - **Thesis:** “STUDY OF GROUNDWATER QUALITY IN SHAILAKUPA UPAZILA, JHENAIDAH, BANGLADESH”
  - **Advisor:** *Dr. Khandaker Imamul Haque*
  - **Result :** *First Class*
- 🚩 B.Sc. in Geology & Mining (2002–2005) Rajshahi University, Bangladesh (*Exam held in 2006*)
  - **Research :** Geological field work on Maheshkhali Island of Cox’s Bazar District, Bangladesh
  - **Advisor:** *Dr. Mrinal Kanti Roy*
  - **Result :** *First Class*
- 🚩 Higher Secondary school Certificate (H.S.C) in Science Jessore Board, Bangladesh, 2000

▪ **Result : First Division**

🏆 **Secondary school Certificate (S.S.C) in Science Jessore Board, Bangladesh, 1998**

▪ **Result : First Division with star marks**

**Personal Information:**

Date of Birth: April 12, 1982  
Nationality : Bangladeshi  
Blood Group: B+  
Marital status: Married

**Research interest in Brief:**

Mass Extinction and Paleo-climate, Evolutionary Changes and causes, Sedimentology, Marine Environmental changes and its phenomenon. Geological Research, Paleo extinction of the earth history, Dinosaurs, Remote Sensing, Ground Water Quality. Petroleum Exploration using biomarker.

**Current Research on:**

“Terrestrial Ecosystem Collapse and Soil Erosion before the End Permian Marine Extinction: Organic Geochemical Evidence from Marine and Non-Marine Records.

**Publications**

1. Biswas, R.K., Kaiho, K., Saito, R., Tian, L. and Shi, Z., 2020. Terrestrial ecosystem collapse and soil erosion before the end-Permian marine extinction: Organic geochemical evidence from marine and non-marine records. *Global and Planetary Change*, 195, p.103327.
2. Kaiho K., Saito R., Oba M., Ito K., Miyaji T., **Biswas R.**, Tian L., Sano H., Shi Z., Takahashi S., Tong J., Liang L., Oba M., Nara F.W., Tsuchiya N., Chen Z.Q., (2016) Effects of soil erosion and anoxic–euxinic ocean in the Permian–Triassic marine crisis. *Heliyon* **2**, 137.
3. Saito, R., Kaiho, K., Oba, M., Tong, J., Chen, Z.Q., Takahashi, S., Chen, J., Tian, L. and **Biswas, R.K.**, (2016) Secular changes in environmental stresses and eukaryotes during the Early Triassic to the early Middle Triassic. *Palaeogeogr. Palaeoclimatol. Palaeoecol.* 451, 35-45.
4. Kulatunga U; Gayan W; Dilanthi A; Parvez A and **Biswas R.K.**; Disaster Risk Reduction in Bangladesh 2012, World Construction Conferences; Colombo, Srilanka; 209-220pp.
5. **Biswas R.K.**; Shamsuzzoha M; Islam A.R.M.T; 2012. Suitability Assessment of some Groundwater samples for Irrigation of Shailakupa Upazila under Jhenaidah District.; Journal of the Patuakhali Science and Technology University.
6. **Biswas R.K.**; Roy M.K. and Haque K.I. 2014 ‘Assessment of ground water quality for drinking purposes in some parts of Jhenaidah District, Bangladesh’ *International Journal of Geology, Earth and Environmental Sciences*; Jaipur, India.
7. **Biswas, R.K.**, Saito, R., Kaiho, and., Zhiqiang Shi, “Land ecosystem collapse followed by marine environmental stress spanning the Permian-Triassic mass extinction” *Journal of Geochim. Cosmochim. Acta*.

8. **Biswas. R.K.**; Roy. M.K. and Roy. D.K. “Adaptive Strategies through Indigenous Knowledge in Agriculture Sector of Patuakhali District” in the Journal of Institute Bangladesh Studies, Rajshahi University, Bangladesh.
9. **Biswas. R.K.**; et. el. “Assessment of drinking water related Arsenic and Salinity hazard in Patuakhali District” Journal of the Patuakhali Science and Technology University, Bangladesh
10. Islam. A. R. M. T; Islam. M. A; Tasnuva. A; and **Biswas. R. K.** “Petrophysical characterization of shale-sand gas reservoir using well log interpretation: A case study of Narsingdi Gas Field, Bangladesh” International Journal of Geology, Earth and Environmental Sciences, Joypur ,India.

#### **International Conference attended;**

- ❖ Conference of Japan Geosciences Meeting on 06 May, 2017.  
Paper Presented; Biswas, R.K, Saito, R., Kaiho, and., Zhiqiang Shi, “Land ecosystem collapse followed by marine environmental stress spanning the Permian-Triassic mass extinction” Journal of Geochim. Cosmochim. Acta.
- ❖ IGCP 630 Meeting in Japan, 2017 (Permian-Triassic Climatic & Environmental Extremes and Biotic Response) Sendai, Japan. June 14-20, 2017  
Peper Presented; “Land ecosystem collapse followed by marine environmental stress spanning the Permian-Triassic mass extinction”
- ❖ International meeting of Paleontological Society of Japan at Tohoku University held on 22 June 2018 to 24 June 2018. Paper presented: Biswas, R.K, Saito, R., Kaiho, and., Zhiqiang Shi “Terrestrial collapse spanning the end-Permian mass extinction”
- ❖ Participated and Certified for the Joint Staff and International Stakeholder Training at the BECK Project; a Collaborative work among Russia, Srilanka, and Bangladesh on 30 June, 2020 (Virtual Training).

#### **Awards/Certificates:**

- ❖ A Certificate training course on Disaster management and monitoring using integrated space technology(**RS-GIS-GNSS-GTV&V**) by Bangladesh Space Research and Remote Sensing Organization(SPARRSO).(25 Sep-05 oct.2011).
- ❖ A certificate from Graduate Training Institute (GTI) maymonshing, Bangladesh on “9<sup>th</sup> foundation Training for University Teachers” (12 May-10 June 2013).
- ❖ A certificate by the University of Sal ford, Manchester, UK for participating, data analysis and conducted a presentation on **Earthquake scenario in Bangladesh** by INSPIRE Scheme CEREBELLA Research project funded by British Council from 26 Feb-05 Mar. 2012)
- ❖ Academic **Gold Medal** from Rajshahi University for obtaining 1<sup>st</sup> Class in B.Sc in Geology and mining.
- ❖ Musical & cultural competition 2007, Shaheed Suhrawardi Hall, Rajshahi University.
- ❖ Incentive trip in Manila, Philippine for 7 days in 2011.by Novartis (Bangladesh) Limited.
- ❖ Incentive trip in India for 5 days in 2010. By Novartis (Bangladesh) Limited.

## Teaching Experience:

From 06 March 2011 –till date in the Dept. of Disaster Resilience and Engineering  
Faculty of Disaster Management, Patuakhali Science and Technology University, Dumki,  
Patuakhali, Bangladesh-8602.

## Courses conducted by me:

Disaster Risk Reduction: Principle and Practices, Credit Hours 2  
Introduction to Hazard risk and disaster, Credit hour: 2  
Indigenous Knowledge for Disaster Management, Credit hour: 2  
Fundamentals of Hydrology, (Theory and Practical), Credit hour: (2+1)  
Introduction to Earth Science Credit hour: 2  
Earthquake Management and Engineering (Theory and Practical), Credit hour: (2+1)  
Disaster Risk Management in Business Sector, Credit Hour: 2  
Disaster Risk Management in Tourism Sector Credit Hours: 2  
Fundamentals of Geophysics, CR 2  
Oceanography, CR 2  
Remote Sensing; CR 2

**Administrative Experience:** Assistant Provost, Sher-E-Bangla Hall-2, Patuakhali Science and Technology University. Since 01 Aug. 2012 to Present.

## Undergraduate Reports:

**Title:** *Geological field report on the Sitakund anticline, Chittagong District, Bangladesh.*

## Training:

- ❖ A training course on Disaster management and monitoring using integrated space technology(**RS-GIS-GNSS-GTV&V**) by Bangladesh Space Research and Remote Sensing Organization(SPARRSO).(25 Sep-05 oct.2011).
- ❖ A training from Graduate Training Institute (GTI) Maymenshing, Bangladesh on “9<sup>th</sup> foundation Training for University Teachers” (12 May-10 June 2013).

## Skills:

- ❖ Able to drive a Car and Motor bike. (Japanese Driving License)
- ❖ Energetic and capable to adopt in any type of environment.
- ❖ Ability to work independently as a member of any team.
- ❖ Can work under pressure and enjoy working to meet the challenge.

## Computer literacy:

- ❖ Data Analysis using Agilent Mass Hunter Software for the GCMSMS (Gas Chromatography and Mass Spectrometry Mass Spectrometry)
- ❖ A certificate course has been completed on Visual Basic Programs at the organization of PN Technical Institute (PNTTI) Sapura, Rajshahi.
- ❖ Python Programming Language

- ❖ I have been completed two courses on Remote Sensing & GIS from the Department of Geology & Mining, University of Rajshahi.
- ❖ Adobe Illustrator, Photoshop, Kaleida Graph, Camptasia9, VideoScribe video editing.
- ❖ Skilled on Shopify e-Commerce Platform, for online store developments.
- ❖ Skilled on Fiverr digital marketplace as a freelancer
- ❖ Word press front end and blog post
- ❖ Blogger Theme and front end developments, theme customized.
- ❖ Highly skilled on internet browsing.

**Language Proficiency:**

- ❖ Strong writing and verbal communication ability in Bangla
- ❖ Strong writing and verbal communication ability in English.
- ❖ Good at Japanese Speaking

**Hobby:**

- ❖ Reading Books, Newspapers, Watching movies, Journey, Music, Watching Natural Beauty. Online Job,

**Name of Referees:**

- ❖ **Professor Dr. Kunio Kaiho**  
Faculty of Science  
Department of Earth Science  
Tohoku University,  
6-3, Aoba, Aramaki, Aoba-ku, Sendai 980-8578 Japan  
Email; [kaiho@m.tohoku.ac.jp](mailto:kaiho@m.tohoku.ac.jp)
- ❖ **Mrinal Kanti Roy Ph.D**  
Professor  
Department of Geology & Mining  
University of Rajshahi, Rajshahi-6205  
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I hereby declare that the information provided in this curriculum vitae are true and correct.

Date: January 7<sup>th</sup> , 2021



**(Raman Kumar Biswas)**