

## KİŞİSEL BİLGİLER

**Ad ve soyadı** Himansu Kumar Kundu  
**Doğum yeri** Hindistan  
**Bildiği diller** İngilizce (ana dili: Hintçe)  
**Görev ve iş adresi** Jeofizikçi, Geochronology and Isotope Geology Division, Geological Survey of India.

Eğitim durumu	Yer (Yıl)	Ünvan
Doktora	University of Calcutta, Department of Physics, Bose Institute, India (1988)	Ph.D.
Yüksek Lisans	University of Calcutta, Department of Physics, Bose Institute, India (1975)	M.Sc.

## YAYIN LİSTESİ

**21. H. K. Kundu**, H. Sato, A. Ganas and M. Ikeya, (2005) 'ESR studies on calcite encrustation on Fili neotectonic fault, Greece', Applied Magnetic Resonance , 29 185.

**20. H. K. Kundu**, (2002) 'Scope of ESR study on different parameters of NaCl and natural rock salt for radioactive waste repository', Advances in ESR Applications, vol. 18, 221.

**19. Amitabha Sarkar**, U.C.Pati, P.K.Panda, P.C.Patra, **H. K. Kundu** and S.Ghosh, (1998) 'Late- archaen charnockitic rocks from the northern marginal zones of the Eastern Ghats Belt: A Geochronological study, Proc. International Seminar on Precambrian Crust in Eastern and Central India, UNESCO-IUGS-IGCP-368 p. 171.

**18. Himansu Kumar Kundu** (1998) 'On the origin of two components in the decay times of lyoluminescent alkali halides', Radiation Physics and Chemistry, 51 403.

**17. Himansu Kumar Kundu**, (1997) 'On the decay time studies of lyoluminescent alkali halides', in the book "Luminescence and its Applications" ed. S. Bhusan and P.K. Dewangan, Allied Publishers, New Delhi 122.

**16. H. K Kundu** (1996) 'On the mechanism of lyoluminescence of organic materials as studied by Electron Spin Resonance (ESR) correlation studies', in the book "Luminescence and its Applications" ed. S. Selvasekarapandian and P. Christober Selvan, Allied Publishers Ltd. New Delhi, 62.

**15. P. Bannerjee**, **H. K. Kundu**, D. Banerjee and R. Bhattacharya (1994), 'The decays of lyoluminescent alkali halides', Journal of Luminescence, 62, 109.

**14. P. Bannerjee**, **H. K. Kundu**, D. Banerjee and R. Bhattacharya, (1994) 'Mass effect in radiation induced lyoluminescence of sugars, Applied Radiation and Isotopes, Int. J. Radiat. Appl. and Instrum. Pt. A, 45, 899.

**13. H. Kundu**, D. Banerjee and B. Mitra, (1992) ‘Study of the mass effect in lyoluminescence yield of tissue equivalent dosimetric materials’, Indian Journal of Pure and Applied Physics, 30, 340.

**12. Himansu Kumar Kundu** (1992) ‘Various aspects of Lyoluminescence studies in Radiation Research’, in the book “Thermoluminescence and its Applications” ed. K.V.R. Murthy, L.H.Prasad and T. R. Joshi, Tata-McGraw Hill, 38.

**11. Himansu Kundu** and B. Mitra (1992) ‘Lyoluminescence as a probe for direct estimation of decay rate of trapped radicals in rigid media’, in the book “Luminescence: Phenomena, Materials and Devices”, Nova Science Publishers, USA, 57.

**10. H. Kundu**, T. Sur, B. Mitra and S.C.Roy (1989) “Study of decay of trapping centers of free radicals in high temperature icy states of saccharides by lyoluminescence and ESR methods”, Applied Radiation and Isotopes, Int. J. Radiat. Appl. and Instrum. Pt. A, 40, 875.

**9. H. Kundu** and B. Mitra, 39 (1988) “Lyoluminescence studies of persistence of gamma ray induced free radicals in the molten state of irradiated saccharides”, Applied Radiation and Isotopes, Int. J. Radiat. Appl. and Instrum. Pt. A, 179.

**8. H. Kundu** (1988) “Study of Lyoluminescence of some biological crystals using different radiations”, PhD Thesis, University of Calcutta, Department of Physics, Bose Institute, India.

**7. H. Kundu** and B. Mitra (1987) Lyoluminescence of gamma irradiated saccharides subjected to post irradiation ultrasonic treatment, Indian Journal of Physics, 61A, 261.

**6. H. Kundu** and B. Mitra, (1986) “Investigations of degree of persistence of radiation induced free radicals in solid saccharides by the methods of lyoluminescence and the ESR Spectroscopy”, Transaction of Bose Research Institute, 49, 33.

**5. H. Kundu** and B. Mitra (1986) “Persistence of solid-like order in the melted state of radiation damaged saccharides as studied by lyoluminescence and ESR Spectroscopy”, Proc. Solid State Physics Symposium (DAE) Vol. 29C, p. 50.

**4. H. Kundu** and B. Mitra (1984), “A study of self-quenching of lyoluminescence yield from gamma irradiated saccharides and amino acid”, Radiation Effects Letters, 85, 123.

**3. H. Kundu** and B. Mitra (1982), Studies of Lyoluminescence dosimetry for gamma and neutron dose in organic solids, Proc. Second International Symposium on Radiation Physics p. 391, Penang, Malaysia.

**2. H. Kundu** and B. Mitra (1980), “Radiation degradation studies of solid carbohydrates and amino acids by the method of lyoluminescence”, Proc.Nuclear and Solid State Physics Symposium (DAE), Vol.23G, p 708, Delhi.

**1. H. Kundu**, S.C. Roy and B. Mitra (1981), “Lyoluminescence studies of solid carbohydrates and amino acids irradiated by gamma rays”, Science and Culture, 47, 143.

#### KİTAP EDITÖRLÜĞÜ

“Earthquakes and Animals, From Folk legends to Science”-Prof. Motoji Ikeya (Osaka University, Japan) World Scientific, Singapore, June, 2004.

#### BİLİMSEL ve AKADEMİK ETKİNLİKLER

Katıldığı Uluslararası Sempozyumlar	Yer	Yıl
<b>9. Himansu Kumar Kundu</b> , “Do unusual earthquake precursor phenomena have any scientific base?”, International Workshop on Models of Earthquake – Physics Approaches, Saha Institute of Nuclear Physics, Calcutta, India, December 13-16, 2005.	Hindistan	2005
<b>8. Himansu Kumar Kundu</b> , Hideo Sato, A. Ganas, G. Papadopoulos and Motoji Ikeya “Unusual presence of $\text{NO}_3^{2-}$ radical in natural calcite encrustation on Fili neotectonic fault, Greece, as studied by ESR Spectroscopy”, Asia–Pacific EPR/ESR Symposium, Bangalore, India, Nov. 22-25, 2004.	Hindistan	2005
<b>7. Himansu Kumar Kundu</b> , “Scope of ESR study on different parameters of NaCl and natural rock salt for radioactive waste repository”, International Symposium on New Prospects of ESR Dosimetry and Dating, Osaka, Japan, October 25-27, 2001.	Japonya	2001
<b>6. Himansu Kumar Kundu</b> , “Lyoluminescence decay times of alkali halides”, International Symposium on Luminescence and its Applications, Baroda, India, Feb. 7-10, 2000.	Hindistan	2000
<b>5. Himansu Kumar Kundu</b> , “On the effects of solvent temperature on lyoluminescence of saccharides”, International Conference on Luminescence and Optical Spectroscopy of Condensed Matter, Osaka, Japan, August 23-27, 1999.	Japonya	1999

**4. Himansu Kumar Kundu**, “On the origin of two components in the decay times of lyoluminescent alkali halides”, 7<sup>th</sup> International Symposium on Radiation Physics, Jaipur, India, Feb. 24 – 28, 1997. Hindistan 1997

**3. Himansu Kumar Kundu**, “ESR-lyoluminescence correlational studies of various categories of lyoluminescent phosphors”, 4<sup>th</sup> International Symposium on ESR Dosimetry and Applications, Neuherberg/ Munich, Germany, May 15 – 19, 1995. Almanya 1995

**2. Himansu Kumar Kundu** and B. Mitra, “Lyoluminescence as a probe for direct estimation of decay rate of trapped free radicals in rigid media”, 3<sup>rd</sup> CECRI Research conference on Luminescence, Central Electrochemical Research Institute, Karaikudi, Tamil Nadu, India, January 12-14, 1990. Hindistan 1990

**1. H. Kundu**, T. Sur, B. Mitra and S.C. Roy, “Study of decay of trapping centres of free radicals in high temperature icy states of saccharides by lyoluminescence and ESR methods”, 2<sup>nd</sup> International Symposium on ESR Dosimetry and Applications, Neuherberg/ Munich, West Germany, October 10 – 13, 1988. Almanya 1998

#### **Katıldığı Ulusal Sempozyumlar**

**Yer Yıl**

**20. H. Kundu** (invited talk), “Application of Electron Spin Resonance (ESR) dating Method in archaeology”, National Seminar on Environmental Radiation and Archaeological Sciences: Scientific Observation and Social Dimension, Jadavpur University, Dec. 4-5, 2003. Hindistan 2003

**19. H. Kundu** (invited talk), “Some aspects of lyoluminescence”, National Seminar on Progress in Luminescence and its Applications, Bahauddin Science College, Junagadh, Gujarat, December 14, 2002. Hindistan 2002

**18. H. Kundu**, National Seminar on Luminescence Dosimetry – Recent Developments, Techniques and Applications, Bhaba Atomic Research Centre, Bombay, August 27-28, 1998. Hindistan 1998

**16. H. Kundu**, “Decay time studies of lyoluminescent alkali halides” in the Condensed Matter Days, Department of Physics, Visva-Bharati, Santiniketan, August 29-31, 1997. Hindistan 1997

**15. H. Kundu** (invited talk), “On the decay time studies of lyoluminescent alkali halides”, National Conference on Luminescence and its Applications, Raipur, October 13-15, 1997. Hindistan 1997

- 14. H. Kundu**, 7<sup>th</sup> National Symposium on Mass Spectrometry, Defence Research and Development Establishment, Gwalior, Nov. 26-28, 1996. Hindistan 1996
- 13. H. Kundu**, 5<sup>th</sup> national Symposium on Environment held in Saha Institute of Nuclear Physics, Calcutta, Feb. 28-March 1, 1996. Hindistan 1996
- 12. H. Kundu** (invited talk), “On the mechanism of lyoluminescence of organic materials as studied by Electron Spin Resonance Spectroscopy (ESR) correlation studies”, National Conference on Luminescence and its Applications, Bharathiar University, Coimbatore, Jan. 17-19, 1996. (*Acted as a member of the National Advisory Board of the Conference and also acted as the co-chairman of a scientific session*). Hindistan 1996
- 11. H. Kundu**, 100<sup>th</sup> Anniversary of Discovery of Microwaves by Sir J. C. Bose held in the Bose Institute, Calcutta, Dec.22, 1995 Hindistan 1995
- 10. H. Kundu**, Regional Meeting on Radiation Physics held in Bose Institute, Calcutta, Nov.16-17, 1995. Hindistan 1995
- 9. H. Kundu** (invited talk), “On the mechanism of lyoluminescence as studied by Electron Spin Resonance Spectroscopy”, National Seminar on Luminescence and its Applications, Government Autonomous P. G. Science College, Jabalpur, 1995. Hindistan 1995
- 8. H. Kundu** (invited talk), “Current trends in Lyoluminescence Study” in the National Seminar on Luminescence and its Applications, Government Science P. G. College, Bilaspur, 1994. (*Also acted as a member of the National Advisory Board of the Seminar*). Hindistan 1994
- 7. H. Kundu** (invited talk), “Various aspects of lyoluminescence studies in Radiation Research”, National Seminar on Thermoluminescence and its Applications, Baroda University, Baroda, 1991. Hindistan 1991
- 6. H. Kundu** (invited talk), “Studies of Lyoluminescence in the department of Physics, Bose Institute”, in the Regional Meeting on Radiation Physics, Bose Institute, Calcutta, Nov. 30– Dec.2, 1988. Hindistan 1988
- 5. H. Kundu** and B. Mitra, “Investigations into the mass effect in the yield in lyoluminescence dosimetry with tissue equivalent materials”, 7<sup>th</sup> National Symposium on Radiation Physics, Mangalore University, Mangalore, 1987. Hindistan 1987
- 4. H. Kundu** and B. Mitra, “Persistence of solid-like order in the melted state of radiation damaged saccharides as studied by Lyoluminescence and ESR Spectroscopy”, Solid State Hindistan 1986

Physics Symposium (DAE), Pantnagar University, Pantnagar, 1986.

**3. H. Kundu** and B. Mitra, “Studies of Lyoluminescence of a few saccharides subjected to post-irradiation ultrasonic treatment”, 6<sup>th</sup> National Symposium on Radiation Physics, Hindistan 1986  
Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, 1986.

**2. H. Kundu** and B. Mitra, “Lyoluminescence dosimetry and its application in neutron – gamma dose estimation in the VEC – cyclotron Vault” and “ Radiation degradation in saccharides and amino acids on gamma irradiation and its study by the method of lyoluminescence”, 4<sup>th</sup> National Symposium on Radiation Physics, Punjabi University , Hindistan 1981  
Patiala, 1981.

**1. H. Kundu** and B. Mitra, “Radiation degradation studies of solid carbohydrates and amino acids by the method of lyoluminescence”, Solid State and Nuclear Physics Symposium (DAE), Delhi, 1980. Hindistan 1980

#### DİĞERLERİ

### I. ARAŞTIRMA DENEYİMİ

#### Tarih ve Yer

#### Araştırma Konusu

**8.** January 15–February 14, 2004, (Handai-Frontier Research Center Visiting Research Fellow), Department of Earth and Space Science, Osaka University, Japan.

Dating of geological fault sample by applying ESR spectroscopy.

**7.** After January 2001, West India-Gujarat.

Earthquake Precursor studies and collecting earthquake precursor reports.

**6.** May-2001, (Visiting Scientist), School of Ocean and Earth Science, University of Southampton, England.

Geochronological studies of rocks and minerals by different radiometric systematics.

**5.** September 16 – 22, 1999, Department of Applied Physics, Okayama University, Japan.

ESR Dating technique of geological samples.

**4.** August 30–September 14, 1999, Quantum Geophysics laboratory, Department of Earth and Space Science, Osaka University, Japan.

Electron Spin Resonance (ESR) Spectroscopy for dating of geological samples and also for radiation dosimetry.

3. 1989-2003, Department of Physics, Calcutta University, India.

Setting up of a Lyoluminescence laboratory and in studies, both of organic and inorganic materials, along with ESR correlational experiments.

2. October-1988, Institute fur Strahlenhygiene des Bundesgesundheitsamtes, Munich, Germany.

Studies on the technique of detection of irradiated food materials by the methods of lyoluminescence and thermoluminescence.

1.1978-1989, Department of Physics, Bose Institute, Calcutta, India.

Study on the phenomenon of Lyoluminescence in the field of Radiation Physics.

**II. POPÜLER AKTİVİTELER:** Düzenli olarak radyo ve TV bilim programlarına katılm.