



St. Xavier's College

Dr. Camil Bulcke Path, Ranchi

Faculty Profile

Name of Faculty Member	:	Dr. Shreeman Narayan Tiwary
Gender	:	Male
Email ID	:	shreemantiwary@yahoo.com
Name of Department	:	Department of Physics
Designation	:	Assistant Professor
Level of Teaching	:	Undergraduate
Academic Qualification	:	M.Sc., M. Phil., Ph.D.
Total Teaching Experience	:	22 Years and 03 Months
UGC NET/SET Qualified	:	No

Research Papers Published:

- 1) **“Characterization of Bituminous, Non-coking, Hariajam Coal (Raniganj Coalfield) by Infrared Spectroscopy”**; Shreeman Narayan Tiwary; Full length paper published in the proceeding book of ALS-2012, after its presentation at the “National Conference on Advances in Lasers and Spectroscopy” (ALS-2012) organized by Dept. of Applied Physics; Indian School of Mines, Dhanbad; during **November, 1-3, 2012**; (Editors: V. K. Rai, Mishra & K. Kumar; Department of Applied Physics; Indian School of Mines; Dhanbad); published by: Allied Publishers, Pvt. Ltd.; New Delhi-110064; ISBN: 978-81-8424-806-7; pp.: 12-18, 2012.
- 2) **“Measurement of Dielectric Constant of Coal Samples”**, Shreeman Narayan Tiwary, Full length paper published in the Proc. Of International Seminar: Recent Advances in Geosciences: ‘RAG-2011’ held at I.S.M. Dhanbad during January 11-13, 2011; (Editors: Department of Applied Geophysics; Indian School of Mines; Dhanbad); published by: Cygnus; Kolkata-700016; ISBN: 978-93-80813-03-5; pp.: 239-243; 2011.
- 3) **“भूमंडलीय तापक्रम-वृद्धि - सिवके का दूसरा पहलू: जलवायु परिवर्तन का अल्प प्रचारित सकारात्मक प्रभाव”**, श्रीमन् नारायण तिवारी एवं प्रेम शंकर मणि त्रिपाठी, भारतीय स्वदेशी विज्ञान

आंदोलन, नई दिल्ली, विज्ञान भारती द्वारा राष्ट्रीय भौतिक प्रयोगशाला सभागार नई दिल्ली में आयोजित राष्ट्रीय संगोष्ठी में प्रस्तुत आलेख, दिनांक 22-23 नवम्बर 2010।

- 4) **"A Relation between Porosity and Electrical Resistivity of Coal-Samples from Hariajam Colliery, Raniganj Coalfields, India"**; Shreeman Narayan Tiwary; Full length paper published in the proceeding book of NASPAM-2010, after its presentation at the "National Seminar on Photonics and Materials" (NASPAM-2010) organized by Dept. of Applied Physics; Indian School of Mines, Dhanbad; during March 25-27, 2010; pp.: 65-71, 2010.
- 5) **"Effect of Variation of moisture content of Hariajam Coal on its electrical resistivity"** Shreeman N. Tiwary & P.S.M. Tripathi; paper published in the Journal of Metallurgy and Material Sciences; Jamshedpur, India; Vol. 52, No. 3, pp.: 247-255, July-September 2010.
- 6) **"Measurement of Electrical Resistivity of Hariajam Coal at Different Moisture Content Values"**, Shreeman N. Tiwary, Full Length paper published in the Proc. Of Nat. Sem. On "Recent Trends in Emerging Frontiers of Physical Sciences", (RTEFPS – 2009); during **Nov. 02-03, 2009** at B.I.T., Sindri; Ed. By D. K. Giri & Mahan M.K.; Sindri, Jharkhand, India; pp.: 210-214; 2009.
- 7) **"कुछ भारतीय लिग्नाइट एवं बिटूमनी कोयलों के तापीय विघटन व्यवहार एवं उनकी विद्युत प्रतिरोधकता पर गामा विकिरण का प्रभाव"**, प्रेम शंकर मणि, श्रीमन नारायण तिवारी, के के मिश्रा एवं निमीषा त्रिपाठी, भारतीय वैज्ञानिक एवं औद्योगिक अनुसंधान पत्रिका, सी एस आइ आर नई दिल्ली द्वारा प्रकाशित, अंक: 2, पृष्ठ 189-193, दिसम्बर 2004.
- 8) **"High Volatile Bituminous Indian Coal: Effect of Gamma Irradiation on the Electrical Resistivity"**, S. N. Tiwary; Mukhdeo and P.S.M. Tripathi, Erdöl und Köhle, Publishers: Hamburg, Industrieverlag von Hernhaussen KG. Germany; vol.:47; no: 11; pp.: 424-426; Nov., 1994.
- 9) **"झरिया कोयला क्षेत्र से प्राप्त विट्रेन के विद्युतीय गुण गुणशय"**, श्रीमन नारायण तिवारी, भर्ती रानी एवं मुखदेव, माइनेटेक; सी एम पी डी आइ, रांची द्वारा प्रकाशित, अंक: 1, पृष्ठ 75-80, जनवरी-फरवरी 1992.
- 10) **"Measurement of Electrical Resistivity of Coal Samples"**, S. N. Tiwary and Mukhdeo, Fuel; Elsevier Publication, London; vol.: 72; no.:8; pp.: 1099-1102; 1993.
- 11) **"Electrical Properties of Vitrain from Jharia-Coalfield"**, S. N. Tiwary, B. Rani and Mukhdeo, Full Length paper published in the "Proc. Of Nat. Seminar on Physico-Chem. Prop. Of Coal, **Feb.; 1988**, ISM, Dhanbad", pp.: 3.3/26 – 3.3/41; **1989**.

- 12) **"Ultimate Analysis of Vitrain Samples from Different Seams of Jharia Coalfields"**, Mukhdeo; B. Rani; K. D. Gupta and S. N. Tiwary, Full Length paper published in the "Proc. Of Nat. Seminar on Physico-Chem. Prop. Of Coal, **Feb. 1988**, ISM, Dhanbad", pp.:4.4/46-4.4/50;**1989**.
- 13) **"Semiconducting Properties of Coal"**, S. N. Tiwary and Mukhdeo, **Bull. IAPT**, Publisher: Indian Association of Physics Teachers, Kanpur, India; 5(5); pp.: 148-151 **May; 1988**.

Participation in UGC-HRDC Course/FDP/OC/RC:

- 1) Attended the short-term course on **"Advances in New and Renewable Energy Materials & Technology"** conducted during the period March 23-27, 2015 organized by Department of Applied Physics, Indian School of Mines, Dhanbad, Jharkhand.
- 2) Participated in the UGC-sponsored Refresher Course in **"Applied Mathematics and Physics"** from 5th September, 2011 to 25th September, 2011 and obtained Grade: 'A'.
- 3) Participated in the UGC-sponsored Refresher Course in **"Experimental Physics"** from 17th February, 2011 to 9th March, 2011 and obtained Grade: 'A'.
- 4) Participated in the UGC-sponsored Refresher Course in **"Physics"** from 22nd November, 2007 to 12th December, 2007 and obtained Grade: 'A'.
- 5) Participated in the Orientation Course at UGC-ASC, Ranchi University, Ranchi from 8th July, 2003 to 4th August, 2003 and obtained grade: A.

Seminar/Conference attended/Paper Presented (National/International):

- 1) **"Global Warming-the positive side of the coin: the feebly trumpeted positive effects of climate change"**, Poster Presented in the 3rd International conference on environment and ecology, organized by the Dptt. Of Botany, St Xavier's College, Ranchi held on **27-29 March, 2017** at St. Xavier's College, Ranchi.
- 2) **"The Role of Milankovitch Variables in affecting Global Warming"**; Shreeman Narayan Tiwary; Paper Presented in the National Seminar on Integrating Development, Environment Concerns and Social Change" held during **23rd & 24th September, 2016**, organized by the Department of Geography, St. Xavier's College, Ranchi.

- 3) **"Water Stress and the Practicable Approaches of Science and Technology"**; Shreeman Narayan Tiwary & Sushma Dubey; Paper Presented in the International Congress on Innovations in Science, Technology and Management (ISTM-2013), held at Rai university, Jharkhand, Ranchi, India during: **June, 3-4, 2013**.
- 4) **"The Role of Gamma Radiation in Coal Science"**; Shreeman Narayan Tiwary; Paper Presented in the International Conference on Structural and Physical Properties of Solids: (SPPS-2013), held at ISM Dhanbad during **18-20 Nov., 2013**.
- 5) **"Effect of Mining Activities and Urbanization on Environment with Some Solutions"**; Shreeman Narayan Tiwary, Paper Presented at the National Seminar on "Effect of Mining & Urbanization on Environment", organized by Dept. of Geography, St. Xavier's College, Ranchi. Jharkhand, during **24 & 25th September, 2012**.
- 6) **"Measurement of Dielectric Constant of Coal Samples"**, Shreeman Narayan Tiwary, Paper Presented in the International Seminar: Recent Advances in Geosciences: 'RAG-2011' held at I. S. M. Dhanbad during **January 11-13, 2011**.
- 7) **"A Relation between Porosity and Electrical- Resistivity of Coal-Samples from Hariajam Colliery, Raniganj Coalfields, India"**; Paper Presented at the "National Seminar on Photonics and Materials" (NASPAM-2010) organized by Deptt. Of Applied Physics; Indian School of Mines, Dhanbad; during **March 25-27, 2010**.
- 8) **भूमंडलीय तापक्रम-वृद्धि - सिक्के का दूसरा पहलू: जलवायु परिवर्तन का अल्प प्रचारित सकारात्मक प्रभाव**", भारतीय स्वदेशी विज्ञान आंदोलन, नई दिल्ली, विज्ञान भारती दिल्ली द्वारा राष्ट्रीय भौतिक प्रयोगशाला सभागार नई दिल्ली में आयोजित राष्ट्रीय संगोष्ठी में प्रस्तुत आलेख, दिनांक **22-23 नवम्बर 2010**.
- 9) **"Measurement of Electrical Resistivity of Hariajam Coal at Different Moisture Content Values"**, Paper Presented at the National Seminar on "Recent Trends in Emerging Frontiers of Physical Sciences", (RTEFPS – 2009) at B.I.T., Sindri; **Nov. 02-03, 2009**.
- 10) **"Effect of Variation of Moisture-Content of Hariajam Coal on its Electrical Resistivity"**, Paper Presented at the 7th Conference of the International Academy of Physical Sciences (CONIAPS-VII, 2004) held at the University of Allahabad during **Dec.: 21-23, 2004**.
- 11) **कुछ भारतीय लिग्नाइट एवं बिटूमनी कोयलों के तापीय विघटन व्यवहार एवं उनकी विद्युत प्रतिरोधकता पर गामा विकिरणन का प्रभाव**", बी एस बी आर ए बिहार विश्वविद्यालय, मुजफ्फरपुर

में “भारतीय परमाण्विक एवं आणविक भौतिकी परिषद” द्वारा आयोजित राष्ट्रीय संगीष्ठी में प्रस्तुत आलेख, 3-5 दिसम्बर 2003.

- 12) “**Electrical Properties of Vitrain from Jharia- Coalfield**”, S.N.Tiwary, B.Rani and Mukhdeo, Paper Presented in the “National Seminar on Physico-Chem. Prop. Of Coal, Feb.; 1988, ISM Dhanbad”, pp:3.3/26-3.3/41; **1989**.
- 13) Participated as an invitee in the workshop for preparing “**Dictionary on English- Hindi Scientific & Technical Terms**” organized by the “Commission for Scientific & Technical Terminology”, MHRD, GOI, New Delhi, held at BRA Bihar University- campus, Muzaffarpur, Bihar, India. During **Dec: 3-5., 2003**.
- 14) Participated in the National Symposium on “**Atomic & Molecular Structure, Interactions & Laser Spectroscopy (NAMSILS-2004)**” held at BHU, Varanasi, U.P., India during **14-15th March, 2004**.
- 15) Participated in the two-day state level training workshop on: “**Low Cost, No Cost Experiments**” held at B.I.T. Extension Centre, Lalpur, Ranchi on **6th and 7th May, 2006**, with Sri Samar Bagchi, Ex-Director, Birla Science Museum, Kolkata & Ex-Chairman, NCSTC Network, as the resource person.
- 16) Represented Jharkhand by participating in the **National Science Teacher’s Workshop** Organized by Association for Research and Training in Basic Science Education, Nagpur held at Rashtrabhasha Bhavan, North Ambazari Road, Ramdaspath, Nagpur, India, during **Oct.: 24-28, 2006**.
- 17) Participated in the “**C. K. M. Summer Workshop in Physics: 2011**”; Organized by IAPT-Regional Council: 15 at SNBNCBS, Kolkata & MMC College, Kolkata; **6th to 15th June, 2011**.
- 18) Participated in the National Workshop on “**Radiation- A Powerful Tool for Research in Physical, Chemical and Life sciences**”, (NWR-2013); organized by the UGC-DAE Consortium for Scientific Research, Kolkata Centre and Centre for Applied Physics, Central University of Jharkhand, Ranchi held at the Centre for Applied Physics, CJU, Ranchi, Jharkhand, India during **February 13-15, 2013**.
- 19) Dr. S. N. Tiwary attended the National Training program on “**Lasers: Technology and Applications in Engineering**” conducted during the period may 16-20, 2016 in the Department of Applied Physics, Indian School of Mines, Dhanbad, Jharkhand.
- 20) Dr. S. N. Tiwary participated in the National Conference on “**Nuclear and Accelerated physics (NGNAP2016)**” organized by the Center for Applied Physics, Central University, Ranchi during October, 4-6, 2016.

- 21) Dr. S. N. Tiwary participated at 31st Annual National Convention held during 20-22 Oct. 2016 organized by the IAPT, RC-7, Gujarat held at M. Patel Institute of Sciences and Research, Kadi Sarva Vishwavidyalaya, Sector-15, Gandhinagar, Gujarat.

Workshops Participated as Resource Person:

- 1) "**Physical methods in exploiting Advanced Materials from Coal**"; An invited talk was delivered in the National Conf on Adv. Materials in Spectroscopic Techniques and Materials (ASTM-2018) conducted during 14-16 March, 2018 in the Dept of Appl. Physics, IIT (ISM), Dhanbad.
- 2) Dr. S. N. Tiwary chaired the Technical Session in the National Seminar on **Integrating Development, Environment Concerns and Social Change** organized by the department of Geography, St Xavier's College, Ranchi, during 23-24 September, 2016.
- 3) Dr. S. N. Tiwary participated in the district level science exhibition as a member of Selection Committee on 27th October, 2015 held at Ursuline Convent Girls High School, Lohardaga, Jharkhand.
- 4) Dr. S. N. Tiwary participated in the 46th International Physics Olympiad 2015 and contributed a very important and significant role as "**Academic team member and Resource Person**" during 3rd July 2015 to 13th July 2015 at Mumbai.
- 5) Participated in the Preparatory Workshop for the Experimental Component of the 46th International Physics Olympiad 2015 during 18th may to 29th may 2015 held at the Homi Bahba Centre for Science Education, TIFR, Mumbai.
- 6) Dr. Shreeman Narayan Tiwary provided his services as Resource Person in the UGC-sponsored Refresher Course in "Basic Science" from 3rd March, 2014 to 23rd March, 2014.
- 7) Worked as the CO-CONVENOR in the Regional Orientation Workshop for **Teachers on Physics Teaching**, held at St. Xavier's College, Ranchi, and organized by DST through Science for Society, Jamshedpur (Jharkhand) during Sept.: 9-10, 2006.

Life-Membership of Scientific Societies:

- 1) Life Member of Swadeshi Science Movement of India, Delhi; No.: SSM'D – 590, **November 23, 2010.**

- 2) Life Member of Science for Society, Jharkhand, Jamshedpur; Receipt No.: 737, dated: **06/05/2006**.
- 3) Life Member of Laser & Spectroscopy Society of India, Varanasi, U.P.; Receipt No.; 23, dated: **03/12/2003**.
- 4) Life Member of Purvanchal Academy of Sciences, Jaunpur, U.P. Receipt No.: 676, dated: **13/11/1991**.
- 5) Life Member of Indian Association of Physics Teachers, Kanpur, U. P.; No.: 0575 since **1987**.

Any Special Award/Achievement:

- 1) Dr. S. N. Tiwary was elected Secretary of "**Indian Association of Physics Teachers, (IAPT) Kanpur, India**" for the Regional Council-Jharkhand (R.C.-18) for three consecutive years from 2016 to 2018.
- 2) Dr. S. N. Tiwary was elected Vice-President of "**Indian Association of Physics Teachers, (IAPT) Kanpur, India**" from East Zone region of India comprising of states: West Bengal, Orissa, Jharkhand & NE states for three consecutive years 2013 to 2015.
- 3) Nominated as member of editorial board of "**Rai Journal of Technology, Research and Innovation [ISSN-2321-3213]**"; a half-yearly research journal publishes by Jharkhand Rai University, Ranchi; on 17th May, 2013.
- 4) Received 1st Prize at Central Fuel Research Institute, Dhanbad in **Writing Scientific Essays in Hindi** on the Occasion of Hindi Divas on 26 Sept, 2004.

[Dr. Shreeman Narayan Tiwary]