



DR. SHASHI BALA

Date of Birth: 14/08/1976

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District-Ghaziabad (UP), INDIA

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Since September
2016-Present

Assistant Professor, Department of Chemistry, Keral Verma Subharti College of Science, Swami Vivekanand Subharti University, Meerut, India.
Teaching B.Sc. and M.Sc. Classes.

Education:
2008- 2013

University of Leeds, Leeds, United Kingdom

PhD in Carbon Capture and Storage

Title: Novel approaches for CO₂ capture.

Project: There were two themes of the project. The first was to study and develop the non-amine chemical absorption systems for CO₂ capture and release. The second part was to improve the efficiency of the current solvent for CO₂ capture, in particular investigating the process of oxidative degradation of the absorbent.

2002-2003

University of Delhi, Delhi, India

M.Phil. in Synthetic Medicinal Chemistry

Dissertation title: A facile synthesis for Thiadiazolyl Pyrimidine-2-thiones.

2000-2002

C.C.S. University Meerut, U. P. India

M.Sc. in Organic Chemistry

1995-1998

C.C.S. University Meerut, U. P. India

B.Sc. in Zoology, Botany and Chemistry

1993-1995

U.P. Board Allahabad, U. P. India

Intermediate in Hindi, English, Biology, Physics and Chemistry,

1991-1993

U.P. Board Allahabad, U. P. India

High school in Hindi, English, Biology, Science, Social science and Mathematics,

Technical Education:
1998-2000

U.P. Technical Board Lucknow, U. P. India
Diploma in Library and Information Science

2003-2004

Indira Gandhi National Open University, Delhi, India
B. Lib. Sc. (Bachelor Degree in Library and Information Science)

Research experience:
09/2002-12/2003

I have been worked as research student in the synthetic medicinal chemistry, Department of Chemistry, University of Delhi, Delhi-110007 during 2002–2003 in M.Phil. Degree Programme. The work focused on microwave assisted synthesis of heterocyclic organic compounds and also concentrate on the reduction of unwanted use of acids and bases in the chemical reaction.

2008-2018

Supervised bachelor students (B.Sc. honours, session 2017-18) to complete their projects. Also supervised undergraduate (M.Chem., M.Sc.) students in their practical classes (Session 2008-20012). I also supervised a master student from 04/2011-09/2011 which involved assisting in project management, development and completion.

Teaching experience
2015-2016

Dr. K. N. Modi Engineering Institute and Technology, Modinagar, Ghaziabad, U. P., India (Assistant Professor).

I have taught engineering chemistry to the engineering students.

Session 2006-07:

M. M. H. College, Ghaziabad, C.C.S. University Meerut, U. P. India
Tutor (Part-time lecturer)

I have taught organic chemistry to the B.Sc. student and also demonstrate in the practical classes.

IT Skills:

I have extensive knowledge of all Microsoft Office Programs, such as Word, PowerPoint, Excel, Origin and Endnote. I am proficient in a range of chemistry software package including ChemDraw, WS_FTP, 1DNMR and other NMR software.

Analytical instrument skill:

I have 4 year experience operating NMR, IR, Gas chromatography and Mass spectroscopic instruments.

Awards:

Awarded by “National Overseas Scholarship” for the year–2005-06 for doing Ph.D. at abroad in the field of “Industrial Environmental Engineering” by

Publications:

- James E. Wheatley, Shashi Bala, Douglas C. Barnes, Casper Schoolderman, Gergely Jakab, Guillaume Raynel, Christopher M. Rayner “CO₂ Capture using phenoxide salts; alternatives to amine-based capture agents, and comparative speciation studies as components in solvent blends” International Journal of Greenhouse Gas Control, 88 (2019) 353-360.
- **Shashi Bala** and Ravi Kumar
“Carbon Capture and Storage: A Review”, Acta Ciencia Indica, Vol. XLIII C, No. 2, 179 (2017).
- C.M. Rayner, G. Raynel and **Shashi Bala**,
“Process for capture of carbon dioxide’, GB2009/051470, April 2010 (**WIPO Patent WO/2010/049739A2**).
- MazaahirKidwai, **Shashi Bala** & Akkal Deo Mishra, “Microwave assisted synthesis of thiadiazolo–pyrimidin–2–thiones” Indian Journal of Chemistry, Vol. 43B Nov. 2004 pp. 2485–2487.

Conferences and Courses Attended

- York and Leeds Interpersonal Skill School 21-22 June 2010, Harrogate, Leeds, U. K.
- “A low Carbon Future” conference on 24th June 2010 in University of Leeds, Leeds, U. K.
- UKCCSC Biannual Meeting 14th-15th September 2010, at School of Engineering, University of Leeds, Leeds U. K.
- “Postgraduate conference’ from 14th-18th June 2011, School of Chemistry, University of Leeds, Leeds, U. K.
- “UKCCSC Winter School” from 10th-12th January 2012, at University of Cambridge, U. K.
- UKCCSC Biannual Meeting 25th-26th June 2012, at School of Engineering, University of Leeds, Leeds U. K.
- International Conference on Emerging Technologies in Science, Engineering and Management (ICETSEM) 23-24 April 2016, at Dr. K. N. Modi Engineering Institute and Technology, Modinagar Ghaziabad, U.P. India.

- International Conference on Global Initiatives in Applied Science and Green Technologies, 9-11 September 2016 (GiAgT-2016), at SRM University, Delhi NCR Campus, Modinagar, Ghaziabad, U.P. India.
- National Conference on Latest Advancements in Physical sciences and life Sciences, 18-19 March 2017, at Meerut College, Meerut, U.P. India.
- National Conference on Recent Trends Basic and Applied Sciences Sustainable Environment (RT-BASE 2018) from 1st to 2nd February, 2018, at Swami Vivekanand Subharti University Meerut, Meerut, U.P. India.
- Faculty development programme Titled “Universal Human Values and Professional Ethics” from 23rd to 30th April 2018, conducted by AKTU, Lucknow at Swami Vivekanand Subharti University Meerut, Meerut, U.P., India.
- 1st National Conference on Universal Human Values in Higher Education Developing Holistic Perspective, conducted by value education cell AKTU Lucknow, between 6th to 8th July 2018, at IET Lucknow, U.P., India.
- Delivered an expert lecture on 24/2/2019 on the topic “Carbon Capture and Storage” in AICT sponsored one week short term course at Madhav Institute of Technology & Science, Gwalior, M.P., India
- Faculty development programme Titled “Impact of Moral Values, Ethics and Behavioral Sciences on Attitudinal Development of the Professionals” from 17th to 30th January 2020, conducted by Dewan Institute of Management Studies at Dewan Vs Group of Institutions, Meerut, U.P., India.
- National Conference on Recent Trends in Interdisciplinary Research on 31st January at Multanival Modi College Modinagar, Ghaziabad, U.P., India