

BRIEF PROFILE OF PROF USHA BAJPAI

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Prof Usha Bajpai had obtained her M Sc Physics and Ph D degree from the University of Lucknow, Lucknow, India.

After serving for 13 years in Nigeria at the Usmanu Danfodiyo University, Sokoto, she joined the Department of Physics, University of Lucknow as a faculty member. She established the Renewable Energy Research Laboratory in the Department and was appointed as Coordinator of Renewable Energy in 2007. She started the M Sc Programme in Renewable Energy in 2007-08 which was the first M Sc Programme in the country in Renewable Energy. The UGC had sanctioned a new programme called B Voc Renewable Energy Technology from the academic session 2015-16 and the University had appointed Prof Bajpai as the Director of B Voc Renewable Energy Technology Programme. Prof Bajpai established a Centre of Excellence in Renewable Energy Education and Research at the New Campus of the University of Lucknow. The University of Lucknow was awarded to undertake the Skill Development Programme 'Surymitra' in the Centre. Prof Bajpai had been a key role in these activities upto June 2018.

Prof Bajpai has more than 185 research papers published in International and National Journals or presented in International and National Conferences. She has co-authored a book on "Sustainable Building and Climate Change-An Indian Perspective" published in Germany in 2012. Prof Usha Bajpai has written 2 Chapters in books published by national and international publishers Prof Bajpai has supervised 10 Ph Ds so far.

She is a consultant of the Ministry of New and Renewable Energy and is a member of many professional societies. She is an editor/reviewer of various International and National Journals including Solar Energy, a Journal of International Solar Energy Society.

She has widely traveled around the globe and has delivered above 80 invited lectures in Institutions, NGOs, Professional Societies, etc at International and National levels.

She has developed many innovative renewable energy systems including solar powered plough, solar powered energy storage system, photovoltaic powered bi-cycle and tri-cycle for disabled people, which was launched by Kalyanam Karoti in Lucknow in 2012 and many more, exceeding 100 renewable energy systems so far.

Prof Bajpai has been several international and national prizes and awards. Notably, among these are Lokmani Award by the Bharat Bharti in 2012; in 2014, Outstanding Award in the field of Science and Technology by Nai Dishaye India; the Award of Outstanding Teacher and Outstanding Researcher by

NISSTA in 2016 in their international conference; in the year 2017, an International Teaching Award by the South Asia Management Association during their international conference in Bangkok; in 2018; Solar Energy Utilization in Rural Areas by NISSTA during their Asian Conclave Solar Millers Vision - 2022 in Chandigarh; in the year 2018; International Pride of Educationist with a Gold Medal by South Asia Management Association during their International Conference on 2019; Solar Quarter Women Award; and Solar Advocate of Nigeria Award by the Solar Energy Society of Nigeria during their National Symposium Forum on Solar Energy held at Birnin Kebbi, Nigeria in 2021. She has received Uttar Pradesh Annual Solar Awards presented at Suryacon Lucknow - 2024, titled 'Woman in Solar For Excellence in Renewable Energy Education and Research' on February 02, 2024 and the LMA Lifetime Achievement Woman Award in recognition of the Renewable Energy and Research by the Lucknow Management Association on March 29, 2024. Prof Bajpai has recently been awarded by the Uttar Pradesh Annual Solar Awards 2025 as the Woman of the year in Renewable Energy Sector for the State of UP during Suryacon, Lucknow 2025 at Hyatt Regency Hotel On April 11, 2025.

Also, Prof Usha Bajpai has received more than 20 awards and prizes in the activities of academic, cultural, religious and spiritual in nature.

Prof Usha Bajpai retired in June 2018 from the University of Lucknow.

After her retirement, Prof Usha Bajpai is still active in the field of Renewable Energy. She is a well known figure in the Society and actively participates in the activities in all spheres of life, including academic, social, cultural and spiritual activities, nationally and internationally.

Prof Usha Bajpai is an internationally acclaimed leader in Renewable Energy and has been contributing a lot in the promotion of Renewable Energy, Environment Protection and Combating the Climate Change for more than 45 years.

Apart from her academic attainments, Prof Usha Bajpai has received many awards and honours in literature, social services, music and cultural activities.