

Professor (Dr) Ganapati D. YADAV

B. Chem. Eng. Ph.D. (Tech.), D.Sc. (*Hon. Causa*, DYPK), FTWAS, FNA, FASc, FNASc, FNAE, FRSC (UK),
FISTE, FIChemE (UK), FIChE

Vice Chancellor and R.T. Mody Distinguished Professor

Tata Chemicals Darbari Seth Distinguished Professor of Innovation and Leadership

J.C. Bose National Fellow (Govt. of India)

Adjunct Professor, RMIT University, Melbourne Australia

Adjunct Professor, University of Saskatchewan, Saskatoon, Canada

Padmashri by President of India



Professor Ganapati D. Yadav is the Founding Vice Chancellor and R.T. Mody Distinguished Professor, and Tata Chemicals Darbari Seth Distinguished Professor of Innovation and Leadership of the Institute of Chemical Technology (ICT), Mumbai (formerly UDCT), which is a Deemed-to-be-University having Elite Status and Centre of Excellence given by State Assembly on par with IITs/IISc/IISERs. He is J.C. Bose National Fellow and Adjunct Professor at RMIT University, Melbourne, Australia and University of Saskatchewan, Canada. He was conferred Padma Shri by the President of India in 2016 for his outstanding contributions to Science and Engineering. He is internationally recognized by many prestigious and rare awards, fellowships and honours for his seminal contributions to education, research and innovation in green chemistry and engineering, catalysis, chemical engineering, biotechnology, nanotechnology, energy engineering and development of clean and green technologies.

He has provided inspiring leadership to the Institute of Chemical Technology (ICT), the Indian Institute of Chemical Engineers (IChE), Catalysis Society of India, and Maharashtra Academy of Sciences. Under his dynamic leadership, ICT has established two new campuses, ICT Mumbai Indian Oil Odisha Campus Bhubaneswar with complete support of Indian Oil Corporation with an investment of Rs 500 Cr and partnership of IIT Kharagpur for research and innovation which was inaugurated by the President of India, Shri Ramnath Koivind on 18th March 2018. ICT Mumbai Marathwada Campus in Jalna will be fully supported by Govt. of Maharashtra with a budget of Rs 397 Crore. It was inaugurated by the Chief Minister Shri Devendra Fadnavis on 4th May 2018. Since his assuming office ICT has received funds to the tune of Rs 1500 Cr. Both these campuses will have innovative programmes of education and innovation which will create entrepreneurs and are unparalleled example in India and demonstrate Prof Yadav's vision and leadership of academia. Indeed establishment of an educational campus with complete private support by a Govt. institute is first example post-Independence. ICT is Category I institute with graded autonomy and NAAC grading of A++ and CGPA 3.77/4.0. ICT has developed several technologies under his leadership including 2G bioethanol, cleaning of MSW in NCR Delhi and reclaiming sewage water of Barapullah Nalla in Delhi with production of biofertilizer, waste to wealth, water purification using chemical-free technologies (Ramkala Lake in Kolhapur), conversion of agro waste-products into value added products, hydrogen production from water splitting, food processing which are all cutting age technologies in tune with India's policy. ICT has a patent portfolio of 410 in last 10 years which is remarkable.

His passion for Sanskrit, Vedas, Etymology, Philosophy, Poetry and literature stands him apart in academic community. He has earned his B. Chem. Eng. (1974), and Ph.D. (Tech.) in Chemical Engineering (1980) from the University of Bombay Department of Chemical Technology (famously known as UDCT then; now ICT). The D.Y. Patil University, Kolhapur conferred upon him D. Sc. (*Hon. Causa*) in 2016.

He has won over 125 national and international honours, awards, fellowships, editorships, etc. Several Life Time Achievement Awards have been bestowed on him by prestigious organizations. He is an elected Fellow of all

National Science and Engineering Academies in India which is rare: Indian National Science Academy (INSA), Indian Academy of Sciences (IASc), National Academy of Sciences, India (NASI), Indian National Academy of Engineering (INAE) and The World Academy of Sciences, Trieste (TWAS). He is a Fellow of Royal Society of Chemistry, UK, Institution of Chemical Engineers, UK, Indian Institute of Chemical Engineers, Indian Chemical Society, and Indian Society for Technical Education, among others.

His research productivity is phenomenal: supervision of 97 doctoral (soon it will be over 100) and 113 masters theses, 410+ original research papers, 89 national and PCT patents; 3 books; h-index of 54, i10 index of 232; 10,600+ citations in journals, patents, books and monographs. He is the topmost engineering scientists and academicians in India, who despite being an administrator, is still actively involved in guiding Ph.D., patenting, publishing, consulting and transferring technologies to industry. He has given more than 650 talks including prestigious orations, plenary lectures, keynote addresses and seminars across the world in his illustrious career. He has been an active consultant to industry with more than 70 assignments and over 70 sponsored research projects for past 40 years.

He was Leverhulme Overseas Visiting Fellow at Loughborough University (1980-81), PDF/NSERC Fellow, University of Waterloo, Canada (1982-84), Johansen Crosby Visiting Chair Professor of Chemical Engineering, Michigan State University (2001-02) and Distinguished Visiting Scholar, Asian Initiative of Purdue University President (2007), Distinguished Visiting Professor Lunghwa University of Science and Technology, Taiwan.

He was honoured with Dr. V. Subrahmanyam Endowment Lecture by IIFPT, Tanjavur (2018), Prof M. J. Nanjan Endowment Lecture by University of Madras (2018), Prof. M.G. Rau Oration by NITK, Surathkal, Syed Hussain Zaheer Medal for Engineering by INSA (2017). VIT Vellore conferred on him Life Time Achievement Award.

Deepak Groups Prof L.K. Doraiswamy Chemcon Distinguished Speaker Award and Medal, IChE (2017), Hetero Drugs Prof G.S. Laddha Chemcon Distinguished Speaker Award and Medal, IChE (2016) Asian Paints Dr R.A. Mashelkar Chemcon Distinguished Speaker Award and Medal, IChE (2015). He was bestowed with the first *Loknete* Sadashivrao Mandlik Memorial Award for his contribution to Education and Research in 2016. D. M. Trivedi Lifetime Achievement Award by Indian Chemical Council (2013) and Dr. B. P. Godrej Lifetime Achievement Award of IChE (2013). The Indian Chemical Council conferred upon him Life Time Achievement Award and gold medal (2014). The Indian Speciality Chemicals Manufacturers Association bestowed upon him the Best Researcher award in 2014.

The American Chemical Society (ACS) published a Festschrift (special issue) of Industrial and Engineering Chemistry Research (2014) in his honour with 65 original research papers from scientists from all over the world. He is the Founder President ACS India International Chapter. He is on editorial boards of prestigious journals like: ACS Sustainable Chemistry & Engineering, Green Chemistry, Applied Catalysis A: Gen, Journal of Molecular Catalysis A: Chem., Catalysis Communications, International Journal of Chemical Reactor Engineering, Clean Technologies and Environmental Policy, Current Catalysis, etc. He is the Founding Editor-in-Chief of Catalysis in Green Chemistry & Engineering (2017, Begell House, USA).

Other noteworthy recognitions include: Chairman, APCAT-7, Asia Pacific Congress on Catalysis, Jan. 17-21, 2017 Mumbai; Fellow Royal Society of Chemistry, UK and Institute Chemical Engineers UK; Canadian Catalysis Foundation's Cross-Canada Lectureship; John van Geuns Lectureship, Amsterdam University; Park Reilly Distinguished Speakership, Waterloo University; Visiting Professorship, Lunghwa University of Science and Technology, Taiwan; He is elected Chairman of Asia Pacific Conference on Catalysis, and is on governing council of APCAT, the confederation of catalysis societies from Asia Pacific region. He is a member, International

Advisory Board, The State Key Laboratory for Catalysis, Dalian Institute of Chemical Physics, The Chinese Academy of Sciences. He served as Director, Asia-Pacific Confederation of Chemicals Engineering Institutes.

He is recipient of honours such as IIT-Roorkee's Khosla National Award; H.L. Roy Memorial Lecture; RPG Life Sciences' Padma Vibhushan MM Sharma Medal; Institution of Engineer's Eminent Engineer Award; Ashland Padma Vibhushan CNR Rao Medal; Dr. Anji Reddy Innovator of the Year Award; Dhirubhai Ambani Oration Award- IICHe-Reliance Industries; Anna University's National Award for the Most Outstanding Academician; VASVIK Foundation Award for Excellence in Research, Best Teacher Award, Maharashtra Govt.

His contributions to development of the Chemical Engineering profession in India are incomparable. As President of the IICHe (2001), he established 51 national awards through endowments. He has been a member or chaired several national and international committees of MHRD, DST, DBT, UGC, AICTE, CSIR, the PSA's on Green Chemistry, the Planning Commission's Pan India S&T Committee, and the Government of Maharashtra's Rajiv Gandhi S&T Commission Peers Group. He is Chairman, Research Council, CSIR-CSMCRI, member of RC of IICT Hyderabad and NIIST Trivandrum. He has served as a Chairman/member of Selection Committees of directors of many CSIR labs. He is Chairman, Advisory of DST-National Centre for Catalysis Research, IIT-Madras and international PAC in Chemical Sciences of DST. He is a member of Maharashtra Innovation Council. He is Chairman, Waste Management Expert Committee, DST-Govt of India, and serves on Boards of two companies as independent Director. He has been actively involved as Chairman or member of many policy making committees of UGC, AICTE, NAAC, DST, DBT, CSIR, CII, FICCI, ICC, IICHe, ACS, among others, and is one of the most active scientists and administrators in the World. Recently he was a member of review of functioning of Central Insecticide Board and Registration Committee of Ministry of Agriculture and Farmers Welfare, Review Committee of IISER Pune, Member of Selection Committee of Directors of IIT, MHRD, etc.

Media:

1. A documentary on his life's story is available in English and Marathi on YouTube:
<https://www.youtube.com/watch?v=allxaDFBefE&feature=youtu.be> (English)
https://youtu.be/eKZo_cvuJ50 (Marathi)
2. Interview in Marathi programme DeshYatra IBN Lokmat channel (March 2016)
<https://www.youtube.com/watch?v=6vyZJ7Jqfs>
3. Zee 24 Taas ANTARANG programme in Marathi (2 hours interview in two parts)
Part I: August 18 and 19, 2018: <https://m.youtube.com/watch?v=fQIvTvFq4oU>
Part II: August 25 and 26, 2018: <https://youtu.be/9CrTJ1gysw0>
4. His views on Chemical Engineering profession are given in a TEDxICTMumbai:
http://www.youtube.com/watch?v=viGTk_2Q-L4
5. The University song written by him: https://www.youtube.com/watch?v=fnHJ_1uTKHU
- 6.. My vision is to make ICT one of the top 100 institutes in the world in 10 years" <http://news.careers360.com/my-vision-make-ict-one-top-100-institutes-world-10-years>

