

Prof. A. R. Mohanty, FNAE, FASI, FCMSI, FIE, FISEAM, CEng (I)



Prof. A. R. Mohanty received the B.Sc.Engg. (Hons.) degree in Mechanical Engineering from the, **National Institute of Technology Rourkela**, India, in 1986, and M.Tech. degree in machine design specialization from the **Indian Institute of Technology (IIT), Kharagpur**, India, in 1988. He has received his Ph.D. degree in the area of noise control from the **University of Kentucky, Lexington, USA**, in 1993. He was with the Ray W. Herrick Laboratories, School of Mechanical Engineering, **Purdue University, West Lafayette, USA**, as a Postdoctoral Fellow, working in the area of active noise control. His research interests are in the areas of **machinery condition monitoring, underwater acoustics, signal processing, acoustics and noise control**. Some of his pioneering research is in the use of **natural materials for noise control** and **motor current signature analysis** for fault detection in mechanical systems.

Presently, he is a **Professor at the Department of Mechanical Engineering** at IIT Kharagpur, India, who was also a former head of the same department. He has been a full professor since 2004 and a professor in the higher academic grade (HAG) scale since 2010. He has worked in the R&D Division of **Larsen and Toubro Ltd., Mumbai, India**, in the area of machinery condition monitoring. He has also worked in **Ford Motor Company, Detroit, USA**, in the area of automobile Computer Aided Engineering/Noise Vibration & Harshness (CAE/NVH). His sponsored research projects in the areas of noise control and machinery condition monitoring are funded by many government agencies and industries. **He has consulted for more than 100 industries in India and abroad in the areas of Industrial Noise Control and Machinery Fault Diagnosis**. He holds one patent for his invention of a device related to fault diagnosis based on motor current signature analysis. He has more than 200 journal and conference publications, four book chapters and one book on “**Machinery Condition Monitoring: Principles and Practices**”, CRC Press, (2014), to his credit. He is an active participant in the NPTEL, SWAYAM and GIAN programmes of MHRD. He is cited by **Stanford University, USA** amongst the top 2% researcher in his field in the world. He has held visiting professor assignments at Universities in France, Singapore and the United States of America.

Prof. Mohanty held the Shyamal Ghosh and Sunanda Ghosh Chair Professor position at IIT Kharagpur (2017-2020). He is an elected fellow of the **Indian National Academy of Engineering, Acoustical Society of India, Condition Monitoring Society of India, International Society of Engineering Asset Management, Institution of Engineers (India)**. He has received several awards like the **Chancellor’s Award for Outstanding Teaching at the University of Kentucky (1993)**, Rais Ahmed Memorial (2009) and M. S. Narayanan Memorial (2015) Award of the Acoustical Society of India, Star Alumnus Award of NIT Rourkela (2015), **Distinguished Alumnus Award of NIT Rourkela (2021)**, Dr. V. Bhujanga Rao Endowment Lecture Award (2019) of the Condition Monitoring Society of India. He is also the recipient of the Overseas Academic Programme (OAP)-inbound fellowship of the **National University of Singapore**. Prof. Mohanty is also a registered chartered engineer in India. He was selected by MHRD, Government of India for the Leadership Excellence in Academic Programme (LEAP) at **Cambridge University, United Kingdom** in 2019.