

Dr. Monideep Dey

President of Deytec, Inc., USA

deytec@frontiernet.net

Summary

The principal of Deytec, Inc., Monideep Dey, PhD, provides consulting services to international development organizations and developing countries pursuing economic development through trade and competitiveness. He is an expert in the development of a national quality infrastructure to achieve increased exports and competitiveness.

Dr. Dey also provides consultancy on the certification of fire safety systems.

Experience

President

May 2008 - Present

The principal of Deytec, Inc. USA, Monideep Dey, PhD, provides consulting services on public policy, regulation and standardization matters (including conformity assessment) to developing countries pursuing economic development through trade and competitiveness. Deytec, Inc. is a company member of the American National Standards Institute (ANSI) and the International Conformity Assessment Committee (ICAC) which is the U.S. interface to the ISO Council Committee on Conformity Assessment (ISO CASCO).

Dr. Dey served as Chairman (Convenor) of ISO TC 92 SC 4 WG 7, Fire safety engineering, from 2013 to 2017 and is an expert in the ISO system of international standards and conformity assessment methods. He is active in ANSI and ISO on activities toward the development of a National Quality Infrastructure (NQI) in developing economies. He provides consulting services to international development organizations and developing countries on establishing a national quality infrastructure. His recent work included providing workshops for government and private sector professionals in Zambia, Ghana, Cote d'Ivoire and Senegal on trade, investment, and consumer protection.

Dr. Dey also provides consultancy on the certification of fire safety systems.

Convenor (Chairman) of ISO TC 92 SC 4 WG 7, Fire safety engineering

October 2013 - March 2017 (3 years 6 months)

Dr. Monideep Dey served in the U.S. delegation to the International Organization of Standardization (ISO) Technical Committee 92, "Fire Safety" for five years. He served as the chairman (convenor)

of a quality safety engineering working group in ISO/TC/92 from 2013 to 2017. During his term, Dr. Dey initiated major initiatives at ISO/TC/92 to make its standards relevant in the international market, including for conformity assessment of fire safety designs to ensure quality and safety. Dr. Dey convened meetings in over 10 countries around the world to discuss these initiatives.

During Dr. Dey's Convenorship, the Technical Committee on Fire Safety revised its international standard for the assessment, verification, and validation of fire calculation methods to include enhanced validation and verification procedures that have resulted in much higher quality fire safety engineering practices worldwide. His work at ISO also focused on improving its fire safety standards for use in emerging markets and developing countries. He is recognized as an expert in the ISO system of international standards worldwide, as evidenced by the testimonials on his company website.

Senior Engineer (GS-15, Step 10) at U.S. Nuclear Regulatory Commission

May 1985 - October 2006 (21 years 6 months)

Monideep Dey developed and managed several high profile and critical projects to enhance the safety of nuclear installations, including pioneering efforts to use standards in nuclear safety regulation. His efforts also included developing national public policy for nuclear safety. These efforts were supported by technical work on development of safety risk assessment techniques and engineering analytical methods.

Other duties and accomplishments include the conduct of international collaborative nuclear safety research programs, particularly the International Collaborative Fire Model Program conducted by the U.S. NRC from 1999 until 2008 to verify and validate fire models for performance-based fire safety design to ensure quality and safety. Dr. Dey was assigned to NIST as a guest researcher to evaluate NIST fire models for use in nuclear safety regulation. He also led other pioneering U.S.NRC initiatives for performance-based regulation, including for testing reactor containment vessels. Monideep Dey also led a high-profile successful program to implement cost-effective regulation.

Dr. Dey adhered to the highest principles of integrity in science and engineering, and the use of verified scientific data in regulation throughout his career at the U.S.NRC.

Guest Researcher at National Institute of Standards and Technology

January 2000 - September 2004 (4 years 9 months)

Dr. Monideep Dey served as a guest researcher at the National Institute of Standards and Technology (NIST), U.S. Department of Commerce for 4 years as part of an inter-agency agreement for a collaborative program between the U.S. Nuclear Regulatory Commission (NRC) and NIST. His assignment was to evaluate the CFAST and FDS fire models developed by NIST

for nuclear power plants applications, and to lead the International Collaborative Fire Model Project (ICFMP) (see Projects) initiated by the NRC.

His task was to evaluate and ensure that NIST fire models were verified and validated for use in the implementation of nuclear safety regulation. He initiated the first programs at NIST for the verification and validation of its fire models. His reports and findings are extensively documented and may be found on the Deytec, Inc. company website.

Senior Engineer at Westinghouse Electric Company

August 1980 - May 1985 (4 years 10 months)

Monideep Dey conducted safety analysis of the Nuclear Steam Supply Systems (NSSS) for nuclear power plants supplied by Westinghouse Electric Company to U.S. and international utilities. Dr. Dey's duties included the development of engineering simulation methods, and the conduct of analyses in the areas of neutronics, thermal hydraulics, and plant operations. Monideep Dey developed design bases and functional requirement documents for safety and balance-of-plant systems for nuclear plants, including for innovative instrumentation and control systems with consideration of the man-machine interface.

Education

University of Michigan

Doctor of Philosophy (PhD), Nuclear Engineering, 1976 - 1980

Activities and Societies: American Nuclear Society Student Chapter.

University of Michigan

Master of Science (MS), Nuclear Engineering, 1975 - 1976

Activities and Societies: American Nuclear Society Student Chapter

Queen's University

Bachelor of Science (BSc), Engineering Physics, 1971 - 1975

Activities and Societies: Soccer, hiking club.

Honors and Awards

Special Achievement Award, High Quality Award