

## **Subrata Saha, PhD Biography**

Dr. Subrata Saha became a member of Sigma Xi in 1974. He served as Vice-President and subsequently as President of the Sigma Xi chapter at the LSU Medical Center in Shreveport. After moving to South Carolina, he went on to be the Vice-President and President of Sigma X Chapter of Clemson University, during 1999 – 2000 and 2000-2001, respectively. At Clemson, he helped initiate an annual lecture series providing presentations by Noble Laureates for the Sigma Xi chapter. The provost of Clemson University agreed to fund this lecture series and several Noble Laureates delivered talks for these Sigma Xi lectures. The Clemson University Sigma Xi chapter received a Sigma Xi Chapter award during this period.

In 2005, Dr. Saha moved to Brooklyn, New York, and served as President and revived an inactive Sigma Xi Chapter at SUNY Downstate Medical Center where he had joined the faculty. Dr. Saha continued to serve as the President of this chapter for five years and during this time, Dr. Saha nominated many graduate students and post-doctoral Fellows to be members of this Sigma Xi chapter. The chapter co-sponsored many seminars that became part of the weekly seminar series for the Biomedical Engineering Program. Dr. Saha encouraged the students to apply for the grants -in-aid awards from Sigma Xi and two of his students received such grants.

Dr. Saha joined the University of Washington as an Affiliate Professor in 2016 and made contact with the Sigma Xi chapter at the University of Washington that had been inactive for several years. Dr. Saha met with various faculty members in different schools of the university and made this chapter active again. During last two years, he nominated several students, post-doctoral fellow and faculty members, including the Dean and Professor of the School of Nursing and Health Science, University of Washington, Bothell campus, to be members of Sigma Xi. Last year, he became the President of this chapter.

Dr. Saha was elected a member of the Nominating Committee of Sigma Xi in 2018 and he has served as an active member of this committee since then. Dr. Saha joined the Development Committee of Sigma Xi during 2010 – 2012 and chaired this committee during 2012 –2013. He became a member of the Diversity Committee of Sigma Xi during 2011 – 2012, and a member of the Committee on Committees during 2012 – 2013.

As a member of the Program Committee for the Annual Meeting and Student Research Conference of Sigma Xi, he organized the Research Ethics Track and chaired a Panel Discussion at this meeting that was held in San Francisco, October 25 –28, 2018. He also organized an Ethics track as a part of the Symposium that Sigma Xi organized at the American Association for the Advancement of Science (AAAS) Pacific Division meeting that was held in Pomona, CA, in 2018.

Dr. Saha founded the Southern Biomedical Engineering Conference series that he started at the LSU Medical Center in Shreveport in 1982. He organized the 1<sup>st</sup>, 5<sup>th</sup>, 10<sup>th</sup> and 22<sup>nd</sup> conferences in 1982, 1986, 1998, 2003 respectively. Dr. Saha also founded the International

Conference on Ethical Issues in Biomedical Engineering in 1997 at Clemson University and he organized the 1<sup>st</sup>, 2<sup>nd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> such conferences in 1997, 1999, 2005, 2007, 2009, 2011 and 2013 respectively. Sigma Xi co-sponsored this conference for most of those years. In response its broader appeal, the name of this conference was changed to the International conference on Ethics in Biology, Engineering and Medicine (ICEBEM) in 2015, and Dr. Saha organized the ICEBEM 2015 and ICEBEM 2018 in New York and Miami respectively. Sigma Xi co-sponsored both of these meetings. Dr. Saha encouraged the participants to join and to nominate new members of Sigma Xi.

During his 45 years of academic career, Dr. Saha has mentored over 60 undergraduate and medical students during their summer research programs and over 40 graduate students for their MS and Ph.D. degrees. He has also mentored more than 15 post-doctoral fellows, many of whom now hold senior faculty positions in universities and management positions in industry. Dr. Saha also started a Summer Research Program for Minority High School Students at Loma Linda University that was funded by NIH and the Honda Foundation.

Dr. Subrata Saha is presently an Affiliate Professor in the Department of Restorative Dentistry at the University of Washington, Seattle, and a Courtesy Professor in the Department of Biomedical Engineering at the Florida International University in Miami.

He was previously the Director of Musculoskeletal Research and Research Professor in the Department of Orthopaedic Surgery & Rehabilitation Medicine, and the Director of the Biomedical Engineering Program in the School of Graduate Studies at SUNY Downstate Medical Center in Brooklyn, New York (2005-2015). Previously, he was also a faculty member at Alfred University (2001-2005), Clemson University (2001-2005), Loma Linda University (1996-2001), Louisiana State University Medical Center in Shreveport (1979-1991), and Yale University (1973-1979).

Dr. Saha received a BS in Civil Engineering from Calcutta University in 1963, an MS in Engineering Mechanics in 1969 from Tennessee Technological University, and Engineer and PhD degrees in Applied Mechanics from Stanford University in 1972 and 1974, respectively. Dr. Saha has received many awards from professional societies, including Orthopedic Implant Award, Dr. C. P. Sharma Award, Researcher of the Year Award, C. William Hall Research Award in Biomedical Engineering, Award for Faculty Excellence, Research Career Development Award from NIH, and Engineering Achievement Award. He is a Fellow of The Biomedical Engineering Society (BMES), The American Society of Mechanical Engineers (ASME), and the American Institute for Medical and Biological Engineering (AIMBE), and New York Academy of Medicine (NYAM).

He has received numerous research grants from federal agencies (NIH and NSF), foundations, and industry. Dr. Saha has published over 142 papers in journals, 46 book chapters and edited volumes, 398 papers in conference proceedings, and 178 abstracts. His research interests are bone mechanics, biomaterials, orthopedic and dental implants, drug delivery systems, rehabilitation engineering, and bioethics.

Dr. Saha is presently the Editor-in-Chief of the *Journal of Long-Term Effects of Medical Implants and Ethics in Biology, Engineering and Medicine: An International Journal*. He is an Associate Editor and on the Editorial Board of many other journals.

Dr. Saha is presently the Conference Chair of the 10<sup>th</sup> International Conference on Ethics in Biology, Engineering and Medicine, that will be held in Seattle, April 24-26, 2020.