



**Advancing Biology-Inspired Engineering**

*Brahm and Sudha Verma Lifetime  
Visionary Award*

*is hereby granted to*

*Dr Carl W Hall*

*from*

**The Institute of Biological Engineering**

By presenting the IBE Visionary Award to Dr. Carl W. Hall, we celebrate Dr. Hall's vision of the advancement of biology in engineering going back to the 1950's.

Dr. Hall received a BS in Agricultural Engineering in 1948 from Ohio State University where in 1936 the legendary professor E.O. Reed had eloquently proposed an engineering of biology. He received his Master's in Mechanical Engineering from the University of Delaware and his PhD from Michigan State University in 1952. Upon graduation, Dr. Hall joined the faculty at Michigan State University where he subsequently served as department head from 1964 to 1970. During his tenure at MSU from 1952 to 1970 he guided over 50 graduate students. His specialty area was biological aspects in food engineering. He became a spoke man for the age of biology and engineering of biology.

After serving as the Dean of the College of Engineering and professor of mechanical engineering at Washington State University from 1970 to 1982, Dr. Hall joined as Deputy Director of Engineering and helped establish the Directorate of Engineering at NSF. He is credited with creating funding for the NSF supported Engineering Research Centers. Dr. Hall was a prolific researcher and he authored, edited or co-edited 38 books and over 400 papers and presentations

While at NSF, Dr. Hall continued to promote biology in engineering. In 1987, at a meeting of agricultural engineering department heads from North America, Dr. Hall elaborated on "The Age of Biology" and asked: *We have engineering based on physics; we have engineering based on chemistry but we do not have engineering that is based on biology. We should take leadership in building the discipline of biological engineering, an engineering that is based on the science of biology.* These visionary words started a movement that led to the establishment of the Institute of Biological Engineering (IBE). Today IBE is the first and the only professional society with the vision of the discipline of biological engineering, an engineering inspired by biology.

Brahm Verma who led in the formation of the Institute of Biological Engineering and after whom this award is named, was inspired by Dr. Carl Hall. By honoring Dr. Hall with this award, IBE recognizes and expresses its gratitude to Dr. Hall for his inspiring vision of the discipline Biological Engineering.

*Presented at the*

2009 IBE Annual Meeting  
Santa Clara, CA  
March 21, 2009

Christina D. Smolke  
IBE President