Amit Bandyopadhyay

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Amit Bandyopadhyay, a Professor in the School of Mechanical and Materials Engineering at Washington State University (WSU), received his BS degree in Metallurgical Engineering from Jadavpur University (Kolkata, India) in 1989, MS degree in Metallurgy from the Indian Institute of Science (Bangalore, India) in 1992 and a Ph.D. degree in Materials Science and Engineering from the University of Texas at Arlington in 1995. In 1995, he joined the Center for Ceramic Research at Rutgers University for his post-doctoral training. In 1997, he joined Washington State University (WSU) as an Assistant Professor, promoted to an Associate level in 2001, and the full professor level in 2006.

- ***Research expertise***: Prof. Bandyopadhyay's research expertise lies in the additive manufacturing of metallic and ceramic materials and their composites towards structural and biomedical applications.

- ***Students***: Prof. Bandyopadhyay supervised 20 Ph.D. and 30 MS graduate students for their mechanical engineering, physics, and materials science and engineering degrees. His students have moved to industry, academia, and national labs within and outside the US. Prof. Bandyopadhyay has also worked with over 50 undergraduate students from materials science, mechanical engineering, chemical engineering, and bioengineering and published several journal papers and conference proceedings with them. During the past 24 years, over 3000 graduate and undergraduate students have also taken their classes from Prof. Bandyopadhyay at WSU.

- ***Honors***: Prof. Bandyopadhyay is a *Fellow* of the *American Ceramic Society* (ACerS), *American Society for Materials* (ASM International), *American Institute for Medical and Biological Engineering* (AIMBE), *Society of Manufacturing Engineers (SME)*, *American Association for the Advancement of Science* (AAAS) and *National Academy of Inventors* (NAI). Prof. Bandyopadhyay received the CAREER award from the National Science Foundation in 1999 and the Young Investigator Program (YIP) Award from the Office of Naval Research in 1998. Prof. Bandyopadhyay also received the best research faculty awards in 2005, 2008 & 2016 and the best teaching faculty award in 2000 from the School of Mechanical and Materials Engineering at WSU. He received the Anjan Bose Researcher Award - Best research faculty of the year in Voiland College of Engineering and Architecture, WSU, in 2017. Prof. Bandyopadhyay received the best paper of the year award from the Rapid Prototyping Journal in 1998 & 2006. In 2017, Prof. Bandyopadhyay was elected to the Washington State Academy of Sciences (WSAS). In 2021, Prof. Bandyopadhyay was given the Distinguished Faculty Address (DFA) award by WSU.

- **International recognition**: In 2010, through an international search, the government of India, through the Council of Scientific and Industrial Research (CSIR), selected Prof. Bandyopadhyay as one of 18 scientists for the position of Outstanding Scientist –Scientist and Technologist of Indian Origin (OS-STIO) to support centers of excellence in CSIR Labs in India. This scientist H grade (Lab Director Level) part-time position allowed Prof.

Bandyopadhyay to advise graduate students and post-doctoral associates in any CSIR labs in India. Prof. Bandyopadhyay was associated with the Central Glass and Ceramic Research Institute (CGCRI, Kolkata, India).

- ***Funding***: Prof. Bandyopadhyay received research funding from various federal agencies such as the National Science Foundation (NSF), the Office of Naval Research (ONR), the Nationals Institute of Health (NIH), and Army Research Labs (ARL); state agencies such as Life Sciences Discovery Fund, Washington Technology Center and Joint Center for Aerospace Technology Innovation; foundations such as the W. M. Keck Foundation, M. J. Murdock Charitable Trust and many companies. During the past 24 years, he has received funding of over $18.0 million as a PI or Co-PI.

- ***Patents***: Prof. Bandyopadhyay is the inventor of 21 issued patents. Seven of his patents were either licensed or sold to different organizations.

- ***Publications***: Prof. Bandyopadhyay published over 350 technical papers, including over 260 journal papers and 25 book chapters. He has edited 11 books, including three textbooks - "Materials and Devices for Bone Disorders" from Elsevier (2016), "Additive Manufacturing" from the CRC Press (2015-1st Edition, and 2019-2nd Edition), and "Characterization of Biomaterials" from Elsevier (2013). His papers have been cited > 24,000 times by various research groups, and his current "H" index is 82 (based on Google scholar). Further details of Prof. Bandyopadhyay's publication list can be found https://scholar.google.com/citations?user=CWnufe8AAAAJ&hl=en&oi=ao. He has given over 175 presentations in various symposia, national labs, and industries.

- ***Student awards***: Prof. Bandyopadhyay's students have received numerous awards. His undergraduate students have also received several prestigious awards.

- ***Other appointments***
  - During 2007, Prof. Bandyopadhyay was a CSIR-Fellow in CSIR-CGCRI, India.
  - In 2008 and 2014, Prof. Bandyopadhyay was a Visiting Professor in the School of Engineering and Applied Sciences at Harvard University (Cambridge, MA).

- ***Editorial activities***: Prof. Bandyopadhyay is an Editor / Associate Editor for many international journals, including the *Journal of Materials Research* (Materials Research Society), Applied Surface Science (Elsevier), Additive Manufacturing (Elsevier), *Advances in Materials Science and Engineering* (Hindawi), *Applied Sciences* (MDPI), *Digital Manufacturing* (Frontiers) and also acts as a reviewer for many journals as well as various funding agencies within and outside the US.

- ***Research coverage***: Prof. Bandyopadhyay's research on additive manufacturing of various materials, including moon rock simulants, has been featured by CNN, AP, BBC, CBS News, ABC News, and various journals worldwide.

Personal

Born in Kolkata (India) in 1967. Wife: Prof. Susmita Bose, Professor, MME, WSU. Sons: Shohom and Aditya. Prof. Bandyopadhyay is a US Citizen.