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Trends of nano science and nano technologies: Now and then

Nanoscale science and technology deal with the nanoscale world, from the search of the smallest components within the heartbeat of an atom to the neural network of the brain. In the last two decades, researchers began developing the ability to manipulate matter at the level of single atoms and to characterize the properties of materials and systems at nanoscale. But, methods and technologies to manipulate the nanoworld still need further development, research, and innovative new ideas, in order for nanoscale technologies to be utilized in addressing the problems of, and providing viable solutions in, many different fields. New technologies will make it possible to develop and access other dimensions of applications for nanoscale science. This talk will focus on and review the current trends of the nanoscience and nanotechnology and potential applications in different fields of science, technology, engineering and medicine.

Biography

Abdalla M Darwish is a Professor of Physics and was recently named Dillard University's first Presidential Professor. He also holds Ruth Simmons University Distinguished Professor position. He obtained his BS in Nuclear Engineering from University of Alexandria, MS in Solid State Physics and PhD in Optics and Laser Physics from the University of Alabama in Tuscaloosa. Then, he joined Alabama A & M University in 1993 where he supervised 7 graduate students (5 MS and 2 PhD). He has been a Dillard University faculty member since 1998 and has served the university in numerous administrative roles, including Chair of the Physics Department, Chair of the School of Stem, Interim Dean of the College of Arts and Sciences, and Associate Provost and Associate Vice President for Academic Affairs. He is an expert in thin film fabrication using the MAPLE and Pulse Laser Deposition techniques. He has authored over 86 publications in the areas of non-linear optical materials, magnetic resonance, waveguides, thin film fabrication and optical sensors. Over the course of his tenure at Dillard, he has been able to secure over $15 million in grant funds as a PI or CoPI to establish many programs and research enterprises in physics and the School of Stem. He is in the process of filing six patents which change the way the pulsed laser deposition of materials is done around the world. In addition, he holds a public office where he has been serving as member of city of Kenner civil service board since its inception in 2007. He was awarded the Monte Lemann Award from the Civil Service League of the State of LA in Oct 2014.

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