Daniel Sinars

Director, Pulsed Power Sciences Center

Dr. Daniel Sinars is the Director for the Pulsed Power Sciences Center, which is best known for conducting research on the world's most powerful pulsed power machine, the 26 MA, 80-TW, 22 MJ "Z" facility. The Z facility is used for a wide range of high energy density physics science, the study of matter and radiation at extreme pressures (>1 million times atmospheric pressure). Daniel is also the Sandia Executive for the Inertial Confinement Fusion and Science programs of the National Nuclear Security Administration. The Center manages a combined annual budget of >$150M and has about 300 employees. The Center also operates several additional facilities, including the multi-kJ, 2-TW Z-Beamlet laser facility adjacent to Z, the STAR gas gun facilities, and a variety of smaller pulsed power machines.

Daniel joined Sandia in 2001 after receiving a PhD in Applied Physics from Cornell University, and a B.S. in Engineering Physics from the University of Oklahoma in 1996. He has made extensive contributions to inertial confinement fusion, high energy density science, and z-pinch physics research, with over 130 refereed journal publications in these fields (26 as first author) and an h-index of 42 (Elsevier Scopus). Daniel's contributions were recognized in 2007 with an IEEE Nuclear and Plasma Sciences Society Early Achievement Award, and in 2011 with both a Department of Energy Early Career Research Program Award and the Presidential Early Career Award for Scientists and Engineers (PECASE). He was elected as a Fellow of the American Physical Society in September 2015.

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