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- working on small scales

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Speaker of Session 01

LITHIUM ION BATTERIES



Dr. Corey T. Love is a materials research scientist in the Alternative Energy Section of the Chemistry Division at the U.S. Naval Research Laboratory (NRL) in Washington DC. His current research focuses on experimental methods to characterize dendrite formation and growth in lithium-ion batteries to improve safety and mitigate failures. Corey received his B.S in Materials Science and Engineering from Virginia Tech in 2003 and M.S. & Ph.D. degrees in Materials Science and Engineering from the University of California-San Diego in (2004 and 2008, respectively). After completing his Ph.D., Corey completed a post-doctoral fellowship through the American Society for Engineering Education at NRL. In 2009 Corey became the Chemistry Division's first Karle Fellow and began his career as a staff researcher. In 2010 Corey received the Chemistry Division's Young Investigator Award to pursue independent research in lithium-ion battery safety and the development of battery state-of-art health monitoring diagnostics.

