

2017 Violet Diller Award for Professional Excellence

Dr. Jaqueline Kiplinger

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Dr. Jaqueline L. Kiplinger earned a B.Sc. in chemistry in 1990 from the University of Colorado, and a Ph.D. in organometallic fluorocarbon chemistry in 1996 from the University of Utah. Her thesis work on carbon-fluorine bond activation and functionalization garnered several awards including the Union Carbide Student Innovation Recognition Award (1996), the Iota Sigma Pi Anna Louise Hoffman National Award for Outstanding Achievement in Graduate Research (1996), and the American Chemical Society's Nobel Laureate Signature Award for the best Ph.D. thesis in the U.S. (1998). She spent two years as a Presidential Postdoctoral Fellow at the University of California, Berkeley with Bob Bergman. She came to Los Alamos National Laboratory (LANL) as the first Frederick Reines Distinguished Postdoctoral Fellow in 1999, and for her accomplishments, she received the Lab's inaugural Postdoctoral Distinguished Performance Award in 2001. She joined LANL as a Technical Staff Member in Chemistry Division in July 2002.

Dr. Kiplinger is internationally recognized as a top researcher for organometallic actinide and lanthanide chemistry in the world today. Since joining Los Alamos as a staff scientist in 2002 she has published 74 research papers, and another three high-profile papers submitted. She is a Fellow of the American Association for the Advancement of Science, the Royal Society of Chemistry, and the American Institute of Chemists. In 2015, she was selected as the first woman to receive the F. Albert Cotton Award in Synthetic Inorganic Chemistry, sponsored by the F. Albert Cotton Endowment Fund. Kiplinger was honored for her work in establishing synthetic routes to novel uranium and thorium compounds that have opened up new frontiers in understanding the nature of bonding and reactivity in actinides. She is the first scientist at Los Alamos to have been honored with two national-level American Chemical Society awards, the first being the Nobel Laureate Signature Award for Graduate Education in Chemistry awarded in 1998.

According to her nominator, Dr. David Morris, Division Leader of the Chemistry Division at LANL, Dr. Kiplinger has never been content to devote herself solely to her research endeavors, and this is strongly

reflected in her service to the broad scientific community and to ensuring a well-trained future workforce in chemistry. In particular, Dr. Kiplinger has served as an Alternate Councilor for the ACS's Division of Inorganic Chemistry (2009-2011), on the Editorial Board for the ACS journal Organometallics (2010-2012), and most recently as the Chair-Elect and Chair for the Organometallic Chemistry Subdivision (2013-2015) in the ACS's Division of Inorganic Chemistry. Dr. Kiplinger's mentoring efforts have ensured that her people are recognized at the highest possible level. All of her previous postdoctoral associates have been nominated and successfully defended for Laboratory fellowships, and two in particular were successfully defended first as Director's Fellows and subsequently as Reines Fellows. She was also successful in securing Postdoctoral Publication Prizes and outstanding PhD thesis prizes for her postdoctoral fellows.

Iota Sigma Pi is happy to recognize Dr. Jacqueline Kiplinger's outstanding research achievements and her contributions to her profession with the Violet Diller Award for Professional Excellence.