Phillip Sprangle, Short CV (2019)

Phillip Sprangle
Professor of Electrical & Computer Engineering (ECE) and Physics,
Institute for Research in Electronics and Applied Physics (IREAP) (sprangle@umd.edu.)
Emeritus Scientist, Naval Research Laboratory

Educational Background:
1973, Ph.D., Applied Physics, Cornell University

Other Employment:
1) Appointed to a Scientific and Technical (ST) position, Senior Scientist for Directed Energy Physics (1988-1990), (2008-2015)
2) Head, Beam Physics Branch, NRL (1980-2011)
3) Appointed to a Senior Executive Service (SES) position (1990-2008)

Fellowships:
1) 2010, Optical Society of America, OSA
2) 2005, Directed Energy Professional Society, DEPS
3) 1997, Institute of Electrical and Electronic Engineers, IEEE
4) 1981, American Physical Society, APS

Awards, Honors and Recognitions:
1) Presidential Rank Award, OPM, (2015) (highest government award bestowed to a civilian)
2) Advanced Accelerator Concept Prize, IEEE (2014)
3) James Clerk Maxwell Prize, APS (2013)
4) Fred E. Saalfeld Award, (highest scientific award bestowed by ONR) (2012)
5) Navy Meritorious Civilian Service Award,(2011) (highest NRL scientific award)
6) NRL Technology Transfer Award, (2004 and 2009)
7) Alan Berman Research Publication Awards, (1974,1975,1979,1992,1999,1998,2002,2009)
8) IEEE Plasma Science Award (2008)
8) Top Navy Scientist and Engineer of the Year Award (2008)
9) HEL Best Paper DEPS Award (2008)
10) Sigma Xi Pure Science Award, (Edison Chapter) (1994)
11) International Free Electron Laser Prize (1991)
12) Washington Technology's Top Ten Talents (1989)
13) E. O. Hulburt Science and Engineering Award (1986)
14) Author of four of "NRL's 100 most cited papers"

Publications/Patents: Over 300 publications, 20 patents, H-Index 59 and over 13,000 Citations

Research Areas of Current Interest:
1) Particle and optical Beam physics, 2) Ultra short pulse laser matter interaction and atmospheric propagation, 3) High-energy laser atmospheric propagation, 4) Free electron lasers, 5) Laser-driven plasma accelerators, 6) Nonlinear optics, 7) Nonlinear plasma physics, 8) Detection of chemical/biological agents and radioactivity, 9) THz sources.