

**Dr. Andreas A Neuber, P.E.**

Distinguished P.W. Horn Professor of Electrical and Computer Engineering,  
Co-Director P3E Center, at Texas Tech University

**(a) Professional Preparation**

Post-Doctoral Training, ECE, Texas Tech University, Lubbock, TX, 1997  
Doctorate in Engineering, ME, Technical University of Darmstadt, Germany, 1996  
Dipl. Phys. (M.S. Physics), Technical University of Darmstadt, Germany, 1990

**(b) Appointments**

2012- Present: *Co-Director* of Center for Pulsed Power and Power Electronics,  
Texas Tech University, Lubbock, TX  
2015-Present: *Distinguished P.W. Horn Professor*,  
Texas Tech University, Lubbock, TX  
2011-Present: *Distinguished AT&T Professor* of Electrical and Computer Engineering,  
Texas Tech University, Lubbock, TX  
2008-2011: *Professor* of Electrical and Computer Engineering  
Texas Tech University, Lubbock, TX  
2003-2008: *Associate Professor* of Electrical and Computer Engineering,  
Texas Tech University, Lubbock, TX  
2000-2003: *Assistant Professor*,  
Texas Tech University, Lubbock, TX  
1998-1999: *Research Assistant Professor* of Electrical and Computer Engineering,  
Texas Tech University, Lubbock, TX  
1996-1997: *Post-Doctoral Researcher*, Pulsed Power and Plasma Laboratory  
Texas Tech University, Lubbock, TX  
1990-1996: *Senior Researcher*, Technical University of Darmstadt, Germany

**(c) Professional Registration**

Professional Engineer #91312, licensed in TX, since 2003

**(d) Membership**

Fellow of the Institute of Electrical and Electronics Engineers (IEEE)  
Within IEEE Member of:  
Dielectrics and Electrical Insulation Society,  
Nuclear and Plasma Science Society  
Member of the Optical Society of America (OSA)  
Member of the German Society of Physics (DPG)  
Member of the International Society of Explosives Engineers (ISEE)

**(e) Honors & Awards**

- IEEE Peter Haas Pulsed Power Award “*for his dedication and empowering the next generation of pulsed power engineers through his own renowned research program and his leadership of the Texas Tech University’s Center for Pulsed Power and Power Electronics*”, 2021
- Fellow of the Institute of Electrical and Electronics Engineers, 2012
- IEEE William Dunbar Award for “*Continuing Contributions to High Voltage Research, Technology, and Engineering Education*”, 2010
- Outstanding Researcher, 2009, College of Engineering, Texas Tech University
- Whitacre Research Award 2008, COE, Texas Tech University
- 36 invited presentations at workshops and conferences

- 3 invited contributions to refereed journals, 3 plenary presentations
- Medal for “*outstanding contribution to the high energy density physics and for promotion of international cooperation*”, Novosibirsk, Russia, 2008
- Cum Laude Doctorate

**(f) Professional Service / last 10 years**

- (Founding) Faculty Mentor for local NPSS Student Chapter at Texas Tech University, 2018 to present
- Member of the bylaws committee, IEEE PPS&T, 2018
- Chair of the IEEE Pulsed Power Science & Technology Committee (PPS&T), 2015 – 2017
- Vice Chair of IEEE Pulsed Power Science & Technology Committee (PPS&T), 2013 – 2015
- Member of the Pulsed Power Science & Technology Committee (PPS&T) of the IEEE Nuclear & Plasma Sciences Society (NPSS), 2007 – 2017. Serving as Student Advocate from 2009 to 2013.
- IEEE International Pulsed Power and Plasma Science Conference technical program committee member, 2013.
- Steering committee member for the International Mega-Gauss conference, 2005-present.
- IEEE International Power Modulator and High Voltage Conference technical program committee member, 2012.

**(g) Selection of publications (past 5 years)**

1. S. A. Watkins, R. J. Lee, T. H. Austin, J. Mankowski, J. Brinkman, J. Dickens, A. A. Neuber, “An Investigation into the Surface Skidding Response of PBX 9501 and PBX 9502,” *Prop., Explos., Pyrotech.* 2022, e202200010.
2. W. Brooks, W., M. LaPointe, M., L. Collier, J. Mankowski, J. Dickens, D. Hattz, N. Koone, N. and A. Neuber, “Lightning Current Propagation in Electrical Conduit. *IEEE Transactions on Plasma Science*,” (2021 online, 2022 special issue)
3. R. M. Clark, J. Brinkman, and A. A. Neuber. "The Sensitivity of PBX 9502 to Drilling Operations." *Propellants, Explosives, Pyrotechnics* 46(9), pp. 1367-1377 (2021)
4. B. Esser, Z. C. Shaw, J. C. Dickens, and A. A. Neuber, “A 2 kW S-band RF Source for Multipactor Research Utilizing GaN HEMTs,” *AIP Advances* 10, 095026 (2020).
5. Z. C. Shaw, L. Silvestre, T. Sugai, B. Esser, J. J. Mankowski, J. C. Dickens, and A. A. Neuber, “On the Limits of Multipactor in Rectangular Waveguides,” *Physics of Plasmas* 27, 083512 (2020).
6. I. A. Aponte, B. Esser, Z. C. Shaw, J. C. Dickens, J. J. Mankowski, and A. A. Neuber, “Fundamental Study of DC and RF Breakdown of Atmospheric Air,” *Physics of Plasmas* 26, 123512 (2019).
7. L. Collier, T. Kajiwara, J. Dickens, J. Mankowski, and A. Neuber. "Fast SiC Switching Limits for Pulsed Power Applications." *IEEE Transactions on Plasma Science* 47 (12), 5306-5313 (2019).
8. B. Esser, J. J. Mankowski, J. C. Dickens, and A. A. Neuber. "Geometry Tuning of an Electrically Small Antenna for Ionospheric Heating." *Radio Science* 54, Iss. 6, 494-502 (2019).
9. L. Collier, T. Buntin, J. Dickens, J. Mankowski, J. Walter, and A. Neuber, “Magnetic Field Diffusion in Medium-Walled Conductors,” *IEEE Transactions on Plasma Science* 47, 1024-1031 (2019).
10. S. Feathers, J. Stephens, and A. Neuber. "550-W Ultraviolet Exciplex Source for Pulsed Power Applications." *IEEE Transactions on Plasma Science* 47, 508-511 (2019).
11. J. Stephens, M. Abide, A. S. Fierro, and A. Neuber. "Practical considerations for modeling streamer discharges in air with radiation transport." *Plasma Sources Science and Technology* 27, 075007 (2018)
12. Z. Shaw, W. Feilner, B. Esser, J. Dickens, A. Neuber, “A software controllable modular RF signal generator with multichannel transmission capabilities,” *Review of Scientific Instruments*, AIP Publishing, 88, 094706 (2017).

**total of 175 peer-reviewed journals (46 in past 5 years).**