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EDUCATION

PhD (Electrical Engineering)	Texas Tech University	1995
MS (Electrical Engineering)	Texas Tech University	1993
BS (Electrical Engineering)	Texas Tech University	1991

Teaching areas: Electronics (analog and digital circuit design) Circuits, Pulsed Power, Electrical Power Distribution Systems, Power Electronics, Optics and Optical Systems, Failure Analysis, Fields, Microwave and RF Circuits, Communications and Communication Circuits, and Electric Space Propulsion.

Research areas: SiC Photoconductive Switching, Pulsed Power, Pulsed RF Sources and Applications, Communication Systems, High Speed Data Conversion, Jammer Systems and Topologies, Pulsed Lasers, Fiber Laser and applications, Electrical Failure Forensics, Grounding and Shielding, Power Electronics, High Efficiency DC/DC Converters, Explosive Pulsed Power, High Power Microwaves, Arc and Plasma Diagnostics, and Electric Space Propulsion.

Short Courses Taught: Grounding and Shielding, Power Electronics, Personnel Safety, Power Distribution Systems, Pulse Generators, High Voltage Generators, Compact Pulsed Power, Compact DC/DC Technology, High Power Microwaves, and Electrical and Optical Diagnostics.

PROFESSIONAL EXPERIENCE

Texas Tech University

Charles Bates Thornton Professor Electrical and Computer Engineering	Sept. 2009
Professor Electrical & Computer Engineering	Sept. 2008
Associate Professor Electrical & Computer Engineering	Sept. 2001- Aug. 2008
Assistant Professor Electrical & Computer Engineering	Jan. 1999- Aug. 2001

Research Assistant Professor
Electrical & Computer Engineering

May 1996-
Dec. 1998

CONSULTING

Multiple Expert Witness Cases (discovery, depositions, reports and testimony)
Primex Aerospace
FMV Swedish Defense Department
Federal Aviation Administration (FAA)
High Tech Consultants
BAE Systems
L3 Communications
Lockheed Martin
Boeing Corp.
White Sands Missile Range
NASA

AWARDS, PROFESSIONAL SOCIETIES, and SERVICES

- IEEE Dielectric and Insulator Society Technical Committee Member (2016-)
- 2014 IEEE Sol Schneider Award, IEEE Dielectrics and Electrical Insulation Society
- Technical Program Chair for the 2008 IEEE Power Modulator Conference in Las Vegas, NV
- Guest editor of IEEE Transactions on Plasma Science Special Issue on Pulsed Power
- Lecturer at High Power Microwave Workshop at FOI in Grindsjön, Sweden, Aug. 2005.
- Keynote speaker at Kumamoto University's International Forum on Pulsed Power Science. All expenses were paid by the host institution.
- 2005 Chancellor's Excellence in Research Award from Texas Tech University.
- Vice-Chairman of 2003 IEEE International Pulsed Power Conference.
- Civilian Research Defense Foundation (CRDF) Chairman of Physics panel 2003
- Civilian Research Defense Foundation (CRDF) International onsite reviewer 2000-present.
- CRDF Physics Review Panel 1999-present.
- AIAA Electric Propulsion Technical Committee Secretary 2000-2002.
- Session Organizer at 2002 International Conference of Plasma Science.
- Session Organizer at the 2002 Power Modulator Symposium.
- AIAA Electric Propulsion Technical Committee 1999-present.
- Organizer and lecturer at workshop on Pulsed Power Technology, Bechtel, 2001.
- Organizer at workshop on Pulsed Power Technology, China Lake.
- Workshop on Pulsed Power Technology workshop at Texas Tech University.
- Pulsed Power Science and Technology Committee 1999-present.
- Session Organizer at 2000 International Conference of Plasma Science.
- Japanese Society for the Promotion of Science (JSPS) Fellow 1996
- American Institute of Aeronautics and Astronautics (AIAA), 1993-present.

- Institute of Electrical and Electronics Engineers (IEEE), 1990-present.

GRANTS AND CONTRACTS

TTU ORS Report \$ 17,717,004.45 total award credited to individual PI. (1/11/17)

- Dr. Dickens has the highest funded research in the COE over the past decade.
- Dr. Dickens has been P.I / Co-P.I. on 5 highly competitive MURI grants.
- Dr. Dickens is P.I. on a highly competitive Navy IED basic research grant. (>400 original submissions 8 awarded)
- Dr. Dickens has been P.I. on six highly competitive DURIP equipment grants.

DIRECTION OF GRADUATE STUDENTS: (all students wrote Thesis or Dissertation)

Student	Degree	Function	Grad Date
Tyler Klein	M.S.E.E.	Chair	2020
Jared Culpepper	M.S.E.E.	Chair	2020
Ben Esser	Ph.D.	Committee member	2020
Zach Shaw	Ph.D.	Committee member	2020
David Barnett	Ph.D.	Committee member	2018
Tyler Butin	M.S.E.E.	Committee member	2018
Landon Collier	Ph.D.	Committee member	2018
Shad Holt	Ph.D.	Chair	2016
Daniel Mauch	Ph.D.	Chair	2016
Vincent Meyers	M.S.E.E.	Committee member	2015
David Reale	Ph.D.	Committee member	2016
Shannon Feathers	M.S.E.E.	Committee member	2015
Andrew Fierro	Ph.D.	Committee member	2015
Billy Sullivan	Ph.D.	Chair	2013
Jonathan Parson	Ph.D.	Chair	2012
John Walter	Ph.D.	Chair	2012
Braxton Bragg	Ph.D.	Chair	2012
Braxton Bragg	M.S.E.E.	Chair	2010
Cameron Hettler	Ph.D.	Chair	2011
Colt James	Ph.D.	Chair	2010
Cameron Hettler	M.S.E.E.	Chair	2009
William Sullivan	M.S.E.E.	Chair	2009
Jonathan Parson	M.S.E.E.	Chair	2008
Yeong-Jer Chen	Ph.D.	Chair	2008
Thomas Holt	Ph.D.	Committee member	2008
David Belt	Ph.D.	Co-Chair	2008
Ryan Karhi	M.S.E.E.	Committee member	2007
Colt James	M.S.E.E.	Chair	2007
Brent McHale	Ph.D.	Committee member	2006

Mic Cevallos	Ph.D.	Chair	2006
Shad Holt	M.S.E.E.	Chair	2006
Juan Carlos	Ph.D.	Committee member	2004
Michael Hoffman	M.S.E.E.	Chair	2003
Heath Keene	M.S.E.E.	Chair	2003
David J. Hemmert	Ph.D.	Committee member	2003
Johnathan Blackwell	M.S.E.E.	Chair	2002
Michael Cevallos	M.S.E.E.	Chair	2002
Roberto Izquierdo	M.S.E.E.	Chair	2001
Juan Carlos	M.S.E.E.	Chair	2001
Zhan Mei	M.S.E.E.	Chair	2001
Efren Brito	M.S.E.E.	Chair	2001
John Walter	M.S.E.E.	Chair	2000
Michael Cevallos	M.S.E.E.	Chair	2000
Guruprakash Radhakrishna	M.S.E.E.	Committee member	2000
Naveen Anumalla	M.S.E.E.	Committee member	1999

PUBLICATIONS

h-Index: 28 Total Citations: 3618

JOURNALS

1. “Window Breakdown Caused by High Power Microwaves,” IEEE Trans. Plasma Science, HPM Issue, 26 296 (1998) (with A. Neuber, M. Kristiansen, D. Hemmert, H. Krompholz, and L.L. Hatfield).
2. “High Voltage Subnanosecond Breakdown,” IEEE Transactions on Plasma Science, Special Issue on High Power Microwave Generation, 26 874 (1998) (with J. Mankowski and M. Kristiansen).
3. “Imaging of High-Power Microwave-Induced Surface Flashover,” IEEE Transactions on Plasma Science Special Issue “Images in Plasma Science”, 27 138 (1999) (with A. Neuber, D. Hemmert, M. Kristiansen, H. Krompholz, and L.L. Hatfield)
4. “High Power Microwave Generation by a Coaxial Virtual Cathode Oscillator,” IEEE Transactions on Plasma Science, 27 1538 (1999) (with W. Jiang, K. Woolverton, and M. Kristiansen).
5. “Efficiency Enhancement of Coaxial Virtual Cathode Oscillator,” 27 1543 (1999) IEEE Transactions on Plasma Science, (with W. Jiang and M. Kristiansen).
6. “Pulsed Power Generation Using Ferromagnetic Circuits,” IEEE Transactions on Plasma Science, Vol. 28, 2000. (with S.I. Shkuratov, M. Kristiansen, L.L. Hatfield, and R. Martin).
7. “High-Current and High-Voltage Pulsed Testing of Resistors,” Plasma Science, IEEE Transactions on , Volume: 28 , Issue: 5 , Oct. 2000 Pages:1607 - 1614 , (with S.I.

- Shkuratov, M. Kristiansen, L.L. Hatfield, and E. Horrocks).
8. "Optical Diagnostics on Helical Flux Compression Generators," IEEE Transactions on Plasma Science, Special Issue on Pulsed Power Science and Technology, Vol. 28, 1445-1450, 2000. (with A. Neuber, M. Kristiansen, and H. Krompholz).
 9. "High Voltage Subnanosecond Corona Inception," IEEE Transactions on Plasma Science, Special Issue on Pulsed Power Science and Technology, Vol. 28, 2000. (with J. Mankowski and M. Kristiansen).
 10. "Microwave Magnetic Field Effects on High Power Microwave Window Breakdown," IEEE Transactions on Plasma Science, Special Issue on High Power Microwaves, Vol. 28, 472-477, 2000. (with D. Hemmert, A. Neuber, M. Kristiansen, H. Krompholz, and L.L. Hatfield).
 11. "Electrical Behavior of a Simple Helical Flux Compression Generator for Code Benchmarking," Plasma Science, IEEE Transactions on , Volume: 29 , Issue: 4 , Aug. 2001, Pages:573 - 581 , (with A. Neuber, M. Kristiansen, J.B. Cornette, K. Jamison, R. Parinson, M. Giesselmann, P. Worsey, J. Baird, and M. Schmidt).
 12. "Subnanosecond Corona Inception in an Ultra Wideband Environment," Plasma Science, IEEE Transactions on , Volume: 30 , Issue: 3 , June 2002 Pages:1211 - 1214 ,(with John Mankowski M. Kristiansen, J. Lehr, W. Prather, and J. Gaudet).
 13. "Compact Explosive-Driven Generator of Primary Power Based on a Longitudinal Shock Wave Demagnetization of Hard Ferri- and Ferromagnetics", Plasma Science, IEEE Transactions on , Volume: 30 , Issue: 5 , Oct. 2002 Pages:1681 - 1691, (with S.I. Shkuratov, M. Kristiansen, and J.C. Hernandez).
 14. "Current Mode of Pulsed Power Generation in Moving Magnet Systems", Plasma Science, IEEE Transactions on , Volume: 30 , Issue: 5 , Oct. 2002 Pages:1674 - 1680, (with S.I. Shkuratov, M. Kristiansen, and J.C. Hernandez).
 15. "Rapid decontamination of large surface areas," Plasma Science, IEEE Transactions on , Volume: 28 , Issue: 1 , Feb. 2000, Pages:173 - 179. (with Farrar, L.C.; Haack, D.P.; McGrath, S.E.; O'Hair, E.A.; Fralick, J.A)
 16. "Shock Wave Demagnetization of BaFe₁₂O₁₉ Hard Ferrimagnetics", Journal of Applied Physics 91 (2002) 3007-3009 (with S.I. Shkuratov, E.F. Talantsev and M. Kristiansen).
 17. "Transverse Shock Wave Demagnetization of Nd₂Fe₁₄B High-Energy Hard Ferromagnetics, Journal of Applied Physics 92 (2002) 159-162 (with S.I. Shkuratov, E.F. Talantsev, and M. Kristiansen).
 18. "Ultracompact Explosive-Driven High-Current Source of Primary Power Based on Shock Wave Demagnetization of Nd₂Fe₁₄B Hard Ferromagnetics", Review of Scientific

- Instruments, 73 (2002) 2738-2742 (with S.I. Shkuratov, E.F. Talantsev, and M. Kristiansen).
19. "The Conductivity of a Longitudinal-Shock-Wave-Compressed Nd₂Fe₁₄B Hard Ferromagnetics, Modern Physics Letters B, 16, No. 12 (2002) 1-11 (with E.F. Talantsev, S.I. Shkuratov, and M. Kristiansen).
 20. "Theoretical Treatment of Explosive Driven Ferroelectric Generators", Plasma Science, IEEE Transactions on , Volume: 30 , Issue: 5 , Oct. 2002 Pages:1665 - 1673, (with S.I. Shkuratov, Ya. Tkach, E.F. Talantsev, M. Kristiansen, L.L. Altgilbers, and P.T. Tracy).
 21. "Single Shot, Repetitive and Life-Time High-Voltage Testing of Capacitors", Plasma Science, IEEE Transactions on , Volume: 30 , Issue: 5 , Oct. 2002 Pages:1943 - 1949, (with S.I. Shkuratov, E.F. Talantsev, L.L. Hatfield, and M. Kristiansen).
 22. "Studies on a Helical Magnetic Flux Compression Generator," SAE Transactions, Journal of Aerospace, vol. 109, pp. 865-869, 2000 (This Transactions volume was published in 2001 and "...contains the best 135 technical papers of all those presented in 2000.") (with A. Neuber, M. Kristiansen, M. Giesselmann, B. Freeman, D. Dorsey, P. Worsey, J. Baird, and M. Schmidt).
 23. "Longitudinal Shock Wave Demagnetization of High Energy Nd₂Fe₁₄B Ferromagnetics," Appl. Phys. Lett. 82, 1248 (2003) (with S.I. Shkuratov, E.F. Talantsev, and M. Kristiansen).
 24. "Thermodynamic State of The Magnetic Flux Compression Generator Volume," IEEE Trans. on Plasma Science, vol. 30, 1659-1664 (2002). (with A. Neuber, T. Holt, and M. Kristiansen).
 25. "Helical MFCG For Driving A High Inductance Load," accepted for publication in the Special Edition of the Journal of EM Phenomenon on FCGs (Oct. 2003) (with Andreas A. Neuber, Juan-Carlos Hernández, Magne Kristiansen).
 26. "Quantification of Ohmic and Intrinsic Flux Losses in Helical Flux Compression Generators," IEEE Transactions on Plasma Science, vol. 32, pp. 1902-1908 (2004) (with Juan-Carlos Hernandez, Andreas A. Neuber and Magne Kristiansen).
 27. "DC Flashover of a Dielectric Surface in Atmospheric Conditions," IEEE Transactions on Plasma Science, vol. 32, pp. 1828-1834 (2004) (with John T. Krile, Andreas A. Neuber, and Hermann G. Krompholz).
 28. "Magnetic Flux Compression Generators," Proceeding of the IEEE, vol. 92 number 7, 1205-1215 July 2004. (with Andreas A. Neuber).
 29. "Microwave Frequency Determination Mechanisms in A Coaxial Vircator," IEEE Transactions on Plasma Science, vol. 32, pp. 1799-1804 (2004) (with X. Chen, J.

- Mankowski, L. Hatfield, E. Choi, and M. Kristiansen).
30. "A Bench Top Railgun With Distributed Energy Sources," Mankowski, J.; Dickens, J.; Giesselmann, M.; McDaniel, B.; McHale, B.; Kristiansen, M., *Magnetics, IEEE Transactions on*, Volume 43, Issue 1, Part 2, Jan. 2007 Page(s):167 – 169
 31. "Interface Breakdown During High-Power Microwave Transmission," Neuber, A. A.; Edmiston, G. F.; Krile, J. T.; Krompholz, H.; Dickens, J. C.; Kristiansen, M., *Magnetics, IEEE Transactions on*, Volume 43, Issue 1, Part 2, Jan. 2007 Page(s):496 – 500
 32. "High-Power Microwave Surface Flashover of a Gas–Dielectric Interface at 90–760 torr," Edmiston, G.; Krile, J.; Neuber, A.; Dickens, J.; Krompholz, H., *Plasma Science, IEEE Transactions on*, Volume 34, Issue 5, Part 1, Oct. 2006 Page(s):1782 – 1788.
 33. "The Impact of Field Enhancements and Charge Injection on the Pulsed Breakdown Strength of Water," Wetz, D.A.; Mankowski, J.J.; Dickens, J.C.; Kristiansen, M., *Plasma Science, IEEE Transactions on*, Volume 34, Issue 5, Part 1, Oct. 2006 Page(s):1670 – 1679
 34. "Conduction and breakdown mechanisms in transformer oil," Butcher, M.; Neuber, A.A.; Cevallos, M.D.; Dickens, J.C.; Krompholz, H., *Plasma Science, IEEE Transactions on*, Volume 34, Issue 2, Part 3, April 2006 Page(s):467 – 475
 35. "A bench top railgun with distributed energy sources" Mankowski, J; Dickens, J; Giesselmann, M, et al., *IEEE TRANSACTIONS ON MAGNETICS* Volume: 43 Issue: 1 Special Issue: SI Pages: 167-169 Part: 2 Published: JAN 2007
 36. "Interface breakdown during high-power microwave transmission", Neuber, AA; Edmiston, GF; Krile, JT, James Dickens, *IEEE TRANSACTIONS ON MAGNETICS* Volume: 43 Issue: 1 Special Issue: SI Pages: 496-500 Part: 2 Published: JAN 2007
 37. "Contributing factors to window flashover under pulsed high power microwave excitation at high altitude", Edmiston, G; Neuber, A; McQuage, James Dickens, *IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION* Volume: 14 Pages: 783-789 Published: 2007
 38. Low-Jitter Triggered Spark Gap With High-Pressure Gas Mixtures Yeong-Jer Chen; Mankowski, J.J.; Dickens, J.C.; Walter, J.; Kristiansen, M.; *Plasma Science, IEEE Transactions on* Volume 36, Issue 5, Part 3, Oct. 2008 Page(s):2546 - 2553 Digital Object Identifier 10.1109/TPS.2008.2004366
 39. Compact Electroexplosive Fuses for Explosively Driven Pulsed Power McCauley, D.R.; Belt, D.W.; Mankowski, J.J.; Dickens, J.C.; Neuber, A.A.; Kristiansen, M.; *Plasma Science, IEEE Transactions on* Volume 36, Issue 5, Part 3, Oct. 2008 Page(s):2691 - 2699 Digital Object Identifier 10.1109/TPS.2008.2004230

40. Utilization of a Nonexplosive Test Bed for Flux-Compression-Generator Electroexplosive Opening Switches Belt, D.W.; Mankowski, J.J.; Neuber, A.A.; Dickens, J.C.; Kristiansen, M.; Plasma Science, IEEE Transactions on Volume 36, Issue 5, Part 3, Oct. 2008 Page(s):2684 - 2690 Digital Object Identifier 10.1109/TPS.2008.2001889
41. Secondary Arc Formation Within a Distributed Energy Railgun Karhi, R.W.; Mankowski, J.J.; Dickens, J.C.; Kristiansen, M.; Wetz, D.A.; Plasma Science, IEEE Transactions on Volume 36, Issue 5, Part 3, Oct. 2008 Page(s):2738 – 2746 Digital Object Identifier 10.1109/TPS.2008.2004228
42. Imaging of the Explosive Emission Cathode Plasma in a Vircator High-Power Microwave Source Walter, J.; Mankowski, J.; Dickens, J.; Plasma Science, IEEE Transactions on Volume 36, Issue 4, Part 1, Aug. 2008 Page(s):1388 - 1389 Digital Object Identifier 10.1109/TPS.2008.924489
43. Optimization of a low jitter, 50 kV, 100 Hz triggered spark gap with high pressure gas mixtures, Chen, Y.; Dickens, J.; Mankowski, J.; Kristiansen, M.; Dielectrics and Electrical Insulation, IEEE Transactions on Volume 16, Issue 4, August 2009 Page(s):971 – 978 Digital Object Identifier 10.1109/TDEI.2009.5211842
44. Optimization of an FCG-Based High-Power Microwave System Using Nonexplosive Pulsed Power, Davis, C. B.; Neuber, A. A.; Young, A.; Walter, J.; Dickens, J. C.; Kristiansen, M.; Plasma Science, IEEE transactions on Volume 37, Issue 12, Part 2, Dec. 2009 Page(s):2321 - 2327 Digital Object Identifier 10.1109/TPS.2009.2033602
45. Recent Advances in Explosive Pulsed Power, L.L. Algilbers, A.H. Stults, J. Dickens, et. al., Journal of Directed Energy, Vol. 3, No. 2, Spring 2009, pg 149.
46. High electric field packaging of silicon carbide photoconductive switches Hettler, C.; James, C.; Dickens, J.; Pulsed Power Conference, 2009. PPC '09. IEEE June 28 2009-July 2 2009 Page(s):631 - 634 Digital Object Identifier 10.1109/PPC.2009.5386380
47. VUV Emission and Streamer Formation in Pulsed Dielectric Surface Flashover at Atmospheric Pressure, Rogers, T.G.; Neuber, A.A.; Frank, K.; Laity, G.R.; Dickens, J.C.; Plasma Science, IEEE Transactions on Volume: 38 , Issue: 10 , Part: 1 Digital Object Identifier: 10.1109/TPS.2010.2059714 Publication Year: 2010 , Page(s): 2764 - 2770
48. “Design and Evaluation of a Compact Silicon Carbide Photoconductive Semiconductor Switch, James,” C.; Hettler, C.; Dickens, J.; Electron Devices, IEEE Transactions on Volume: 58 , Issue: 2 Digital Object Identifier: 10.1109/TED.2010.2089689 Publication Year: 2011 , Page(s): 508 – 511.
49. “Pulsed magnetic field excitation sensitivity of match-type electric blasting caps,” Parson J, Dickens J, Walter J, et al., REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 81 Issue: 10 Article Number: 105115 OCT 2010

50. "Theoretical performance of a mobile GPS linked pulsed ring down array," Reale, D., Mankowski, J., Chen, Y., Walter, J, Holt, S., Dickens, J., Dielectrics and Electrical Insulation, IEEE Transactions on, Volume 18, Issue:4, Page(s): 1079 – 1083, 2011.
51. "Spatially Resolved VUV Spectral Imaging of Pulsed Atmospheric Flashover," George R Laity, Andrew S Fierro, Lynn L Hatfield, James C Dickens and Andreas A Neuber, Volume 39, Issue 11, Page(s) 2122-2123, 2011
52. "Phenomenology of streamer propagation during pulsed dielectric surface flashover," George Laity, Andreas Neuber, Andrew Fierro, James Dickens and Lynn Hatfield, Dielectrics and Electrical Insulation, IEEE Transactions on, Volume 18, Issue 4, Page(s) 946-953, 2011
53. "An explosively driven high-power microwave pulsed power system," M. A. Elsayed, A. A. Neuber, J. C. Dickens, J. W. Walter, M. Kristiansen, and L. L. Altgilbers, Review of Scientific Instruments, Volume 83, Issue 2, 024705(1-11), 2012.
54. "Operation of a Sealed-Tube-Vircator High-Power-Microwave Source," John W Walter, Curtis F Lynn, James C Dickens and Magne Kristiansen, Plasma Science, IEEE Transactions on, Volume 40, Issue 6, Pages 1618-1621, 2012.
55. "Characterization of Annealed HPSI 4H-SiC for Photoconductive Semiconductor Switches," C Hettler, WW Sullivan III and J Dickens, Materials Science Forum, Volume 717, Page(s) 301-304, 2012.
56. "Charged Electret Deposition for the Manipulation of High Power Microwave Flashover Delay Times," J Stephens, S Beeson, J Dickens and A Neuber, Physics of Plasmas, Volume 19, Issue 11, Page(s) 112111-11211-5, 2012.
57. Shallow Incorporation of Nitrogen in HPSI 4H-SiC through the Laser Enhanced Diffusion Process," WW Sullivan III, C Hettler and J Dickens, Materials Science Forum, Volume 717, Page(s) 813-816, 2012.
58. Material selection considerations for coaxial, ferrimagnetic-based nonlinear transmission lines," JWB Bragg, AA Neuber and JC Dickens, Journal of Applied Physics, Volume 113, Issue 6, Page(s) 064904-064904-4, 2013
59. C. F. Lynn, J. C. Dickens, and A. A. Neuber, "Focused cathode design to reduce anode heating during vircator operation," Phys. Plasmas 20, 103113 (2013).
60. J.-W. Bragg, W. Sullivan, D. Mauch, A. Neuber, J. Dickens, "All solid-state high power microwave source with high repetition frequency," Review of Scientific Instruments, 84(5), 054703 - 054703-7 (2013)
61. S. Beeson, J. Dickens, and A. Neuber, "Plasma relaxation mechanics of pulsed high power

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- microwave surface flashover,” *Physics of Plasmas* 20(9), 093509 - 093509-9 (2013).
62. G. Laity, A. Fierro, J. Dickens, A. Neuber, and K. Frank, “Simultaneous measurement of nitrogen and hydrogen dissociation from vacuum ultraviolet self-absorption spectroscopy in a developing low temperature plasma at atmospheric pressure,” *Appl. Phys. Letters*, 102, 184104, (2013).
 63. J.-W. Bragg, J. Dickens, and A. Neuber, ““Ferromagnetic Nonlinear Transmission Lines as High Power Microwave Source” *IEEE Trans. on Plasma Sci.* 41, 232-237, 2013.
 64. W.W. Sullivan, D. Mauch, A. Bullick, C. Hettler, A. Neuber, J. Dickens, “A compact 45 kV curve tracer with picoampere current measurement capability,” *Rev. Sci. Inst.* 84, 034702 (2013).
 65. G. Laity, A. Fierro, J Dickens, A Neuber, “A Passive Measurement of Dissociated Atom Densities in Atmospheric Pressure Air Discharge Plasmas using Vacuum Ultraviolet Self-Absorption Spectroscopy,” *Journal of Applied Physics* 115, 123302, (2014).
 66. A Fierro, J Dickens, A Neuber, “3-D Simulation of Low-Temperature Plasma Development Under Pulsed Conditions,” *IEEE Transactions on Plasma Science*, to be published, (2014).
 67. J Stephens, A Fierro, B Walls, J Dickens, A Neuber, “Nanosecond, repetitively pulsed microdischarge vacuum ultraviolet source,” *Applied Physics Letters* 104 (7), 074105, (2014).
 68. J Stephens, J Dickens, and A Neuber, “Semiempirical wide-range conductivity model with exploding wire verification,” *Physical Review E* 89 (5), 053102 (2014).
 69. D. V. Reale, J.-W. B. Bragg, N. R. Gonsalves, J. M. Johnson, A. A. Neuber, J. C. Dickens, and J. J. Mankowski, “Bias-field controlled phasing and power combination of gyromagnetic nonlinear transmission lines,” *Review of Scientific Instruments*, 85, 054706 (2014).
 70. J Stephens, A Fierro, J Dickens, and A Neuber, “Influence of VUV illumination on breakdown mechanics: pre-ionization, direct photoionization, and discharge initiation,” *Journal of Physics D: Applied Physics* 47 (32), 325501 (2014).
 71. J. Stephens, A. Fierro, J. Dickens, and A. Neuber, “Micrometer-resolution high speed imaging of pulsed microdischarge ignition,” *IEEE Trans. On Plasma Sci.* Volume 42, issue 10, pgs 2652-2653, (2014).
 72. J. Parson, J. Mankowski, J. Dickens, A. Neuber, “Imaging of Explosive Emission Cathode and Anode Plasma in a Vacuum-Sealed Vircator High-Power Microwave Source at 250 A/cm²,” *IEEE Trans. On Plasma Sci.*, Volume 42, issue 10, pgs 2864-2865 (2014).
 73. J. Parson, C. Lynn, J. Mankowski, M. Kristiansen, A. Neuber, J. Dickens,” *Conditioning*

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- of carbon fiber cathodes in UHV-sealed tubes at 200 A/cm²,” IEEE Trans. On Plasma Sci., Volume 42, issue 10, pgs 2592-2593, (2014).
74. D. Ryberg, A. Fierro, J. Dickens, and A. Neuber, “System for Time-Discretized VUV Spectroscopy of Spark Breakdown in Air,” to be published in Rev. Sci. Inst. 2014.
 75. S. Beeson, J. Dickens, and A. Neuber,” Global Model for Total Delay Time Distribution of High Power Microwave Surface Flashover,” to be published in IEEE Trans. On Plasma Sci. (2014).
 76. A. Fierro, J. C. Dickens, A. Neuber, “3-D S Simulation of Low-Temperature Plasma Development Under Pulsed Conditions,” IEEE Trans. On Plasma Sci., Volume 42, issue 10, pgs 2864-2865, (2014)
 77. J. Stephens, A. Fierro, J. Dickens, and A. Neuber, ”Temporally resolved electron density of a repetitive, nanosecond pulsed microdischarge" To be published in Journal of Physics D: Applied Physics : JPhysD-103225.R1.
 78. SI Beeson, J. Dickens, A. Neuber “A High Power Microwave Triggered RF Opening Switch,” Review of Scientific Instruments, Volume 86, Issue 3, March 1, 2015.
 79. Huseyin Ekinici, Vladimir V. Kuryatkov, Daniel L. Mauch, James C. Dickens & Sergey A. Nikishin, “Plasma Etching of n-Type 4H-SiC for Photoconductive Semiconductor Switch Applications,” Journal of Electronic Materials, Volume 44, Issue 3, Feb, 2015.
 80. S Lin, S Beeson, C Liu, J Dickens and A Neuber “Self-induced gaseous plasma as high power microwave opening switch medium,” Physics of Plasmas 22, 043509 (2015).
 81. DH Barnett, JM Parson, CF Lynn, PM Kelly, M Taylor, S Calico, MC Scott, JC Dickens, AA Neuber, JJ Mankowski, “Optically isolated, 2 kHz repetition rate, 4 kV solid-state pulse trigger generator,” Review of Scientific Instruments 86, 034702 (2015).
 82. Jonathan M Parson, Curtis F Lynn, Mike C Scott, Steve E Calico, James C Dickens, Andreas A Neuber, John J Mankowski, “A frequency stable vacuum-sealed tube high-power microwave vircator operated at 500 Hz,” IEEE Electron Device Letters, Volume: 36 Issue: 5, 2015.
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