

RESUME

Revised: 10-2012

NAME: [Michael G. Giesselmann](#)

BORN: October 1956, Basel, Switzerland

CITIZENSHIP: Naturalized US Citizen

TITLE: Professor & Chair in the Department of [Electrical and Computer Engineering](#)

ADDRESS: ECE Department, Mail Stop 3102, Texas Tech University
Lubbock, Texas 79409, Ph.: (806) 742-3465, FAX: (806) 742-1281
Mobile: (806) 438-0271, E-Mail: Michael.Giesselmann@ttu.edu

EDUCATION: Dr. Ing. EE (Ph.D.), Technical University of Darmstadt, Germany, 1986
Dipl. Ing. EE (M.S.), Technical University of Darmstadt, Germany, 1981

PROFESSIONAL: Licensed Professional Engineer (P.E.) in the State of Texas
Eminent Engineer & faculty advisor of Tau Beta Pi (Engineering Honor Society)
Senior Member of the Institute of Electrical and Electronics Engineers (IEEE)
Within IEEE Member of: Nuclear & Plasma Sciences Society
Power Electronics Society
Power Engineering Society
Industry Applications Society (IAS)
IAS Industrial Drives & Electric Machines Committee

EMPLOYMENT:

Professor & Chair,	Texas Tech University, Lubbock, Texas	2010-present
Professor & Assoc. Chair,	Texas Tech University, Lubbock, Texas	2008-2010
Professor,	Texas Tech University, Lubbock, Texas	2002-2008
Associate Professor,	Texas Tech University, Lubbock, Texas	1992-2002
Assistant Professor,	Texas Tech University, Lubbock, Texas	1986-1992
Research Assistant,	Technical Univ. of Darmstadt, Germany	1981-1986

EXPERTISE: Power Electronics, AC Motor Drives, Rotating Machines, Transformer Design, Computer Simulations of Machines and Power Systems, Pulsed Power Technology, Ignitrons, Utility Power Systems, Gas Discharges, High Voltage and High Current Design, High Speed Optical and Electrical Diagnostics (down to sub ns regime), Digital Data Acquisition and Image Processing, Lasers.

CONSULTING: Discharge Characteristics of Batteries, German Industry, 1981
Breakdown Voltage of Transformer Oil, German Utility, 1985
The Use of Fire Extinguishers in High Voltage Installations, German Industry, 1985
Review of "Electrical Machines: Principles, Applications and Control Schematics" for WEST Educational Publishing, April 1988
Power Transformer Design for OEC Disonics, 1990-1992
System study of Pulsed Power Supply for the Swedish Defense Department, 1995
Protection of Induction Motors for Electric Submersible Pumps, ESP, Inc., 1995-96
Modeling of Multi-Winding Transformers and Power Electronics, ABB, 1998.
Modeling of Synchronous Machines, Moog Inc., 2000
Switch-Mode Power Converter Design, General Motors, Honeoye Falls, NY, 2001
Switch-Mode Power Converter Design, Optimal Energy Systems, CA, 2003
Current Source Design, Science Research Laboratory, Boston, MA, 2006
LCD Backlighting, Patent Litigation Expert, Knobbe Martens Olson & Bear LLP, 2007
Florescent Lighting Ballast Expert witness, Orrick, Herrington & Sutcliffe, LLP, 2011

AWARDS: Halliburton Award for excellence in Teaching, 1988
Ex Students Association "New Faculty Award", 1990
"Outstanding Faculty 1991" of the EE Department

Halliburton Award for excellence in Teaching, 1992
 Charles L. Burford Faculty Award for Excellence in undergraduate Teaching, 1994
 President's Excellence in Teaching Award, 1995
 Charter Member and Executive Council Member of the [TTU Teaching Academy](#), 1997
 "Outstanding Professor Award" Students of the ECE Department, 2000
 "Outstanding Faculty" Students of the TTU ECE Department, 2003
 Listing in "Who's Who in America", 2000, 2003
 Charles L. Burford Faculty Award, sponsored by [Abell-Hanger Foundation](#), 2004
 Halliburton Award for Excellence in Undergraduate Teaching, 2008
 Distinguished Resource Faculty Electric Energy Systems, Research & Education, 2010

MANAGEMENT: Chairman of the TTU Electrical & Computer Engineering Department, 2010 – present
 Chairman of the Board of Pulsed Power, Incorporated, 2001-2003
 General Chair of the 2003 IEEE International Pulsed Power Conference

GRANTS & CONTRACTS:

Date	Funding Source	Amount	Remarks
1988	LLNL, University of California	\$73,335	Grant # B039926, High Coulomb, High Current Ignitrons
1989	LLNL, University of California	\$60,343	Grant # B039926, High Coulomb, High Current Ignitrons
1989	Enfitek, Inc.	\$45,000	Scientific and technical assistance for Enfitek, Inc.,
1990	OEC-Diasonics, Salt Lake City	\$5,000	Power Transformer Design Study
1991	State of Texas, ATP	\$72,000	Development of Intelligent Power Modules, Cliff Eldred
1991	OEC-Diasonics, Salt Lake City	\$5,000	Power Transformer Design Study
1991	LLNL, University of California	\$99,957	Testing of High Power Ignitrons, Hercules, Diana, Doug Larson
1991	Defense Nuclear Agency	\$47,338	High Power Switch Development
1992	State of Texas, ATP	\$16,100	Development of Intelligent Power Modules, Domingo Nunez
1995	TTU Center for Energy Research	\$14,000	Cryogenic Operation of Power MOSFETs
1995	Defense Nuclear Agency	\$40,250	Tom Lamp, Development of Universal Power Converter
1996	Defense Nuclear Agency	\$17,500	Tom Lamp, Development of Universal Power Converter
1996	Defense Nuclear Agency	\$35,000	Tom Lamp, Development of Universal Power Converter
Jan-1997	Defense Nuclear Agency	\$18,750	R. Thibodeux , Development of Cryogenic Synchronous Rec.
May-1997	Defense Nuclear Agency	\$18,750	R. Thibodeux , Development of Cryogenic Synchronous Rec.
Feb-1998	WPAFB, Wright Lab	\$18,750	Advanced Power System Technology for Ground Based Radar
May-1998	WPAFB, Wright Lab	\$3,600	Advanced Power System Technology for Ground Based Radar
May-1998	FOA Swedish Defense Department	\$30,000	Inductive Energy Storage System
May-1998	Air Force Office for Scientific Research	\$91,425	Explosive Driven Power Generation for Directed Energy Munitions
Sep-1998	Triggered Vacuum Gap Technology	\$15,763	Institute for Advanced Technology, UT-Austin
Sep-1998	MURI II Kickoff	\$240	Various Sponsors
Sep-1998	30kV Rapid Charger, Kirtland AFB	\$25,185	Kirtland Air Force Base, Phillips Laboratory
Dec-1998	Triggered Vacuum Gap Technology	\$8,569	Institute for Advanced Technology, UT-Austin
Mar-1999	Air Force Office for Scientific Research	\$156,227	Explosive Driven Power Generation for Directed Energy Munitions
Sep-1999	Wright Patterson Air Force Base	\$10,691	Integrated Solid-State Laser Module Research
Nov-1999	US Army, University of Texas, Austin	\$24,573	Triggered Vacuum Gap Technology, PSpice modeling of a PDA
Jan-2000	Air Force Office for Scientific Research	\$151,500	Explosive Driven Power Generation for Directed Energy Munitions
May-2000	US Army, University of Texas, Austin	\$18,426	Upgrade of a Crowbar Switch
Jun-2000	Wright Patterson Air Force Base	\$17,259	Integrated Solid-State Laser Module Research
Aug-2000	Schaefer Inc.	\$30,000	Directed Energy Weapon Power Generation and Pulsed Power Tech.
Jan-2001	Air Force Office for Scientific Research	\$151,500	Explosive Driven Power Generation for Directed Energy Munitions
Jan-2001	Air Force Office for Scientific Research	\$101,000	Explosive Driven Power Generation for Directed Energy Munitions
Mar-2001	US Army, University of Texas, Austin	\$50,555	Modeling and Real Time Instrumentation of AC Alternators
May-2001	Schaefer, Inc.	(\$3,500)	Budget Adjustment

Aug-2001	Conoco, Inc.	\$50,000	Pulsed Power System for Enhanced Oil Extraction
Dec-2001	Air Force Office for Scientific Research	\$100,000	Explosive Driven Power Generation for Directed Energy Munitions
Dec-2001	State of Texas, ATP	\$72,300	Smart, Utility Connected Inverters for Solar Power Panels
2002	US Army, University of Texas, Austin	\$20,682	Mobile Platforms for Electric Weaponry
2002	US Army, University of Texas, Austin	\$38,246	Real Time Instrumentation of AC Alternators
Feb-2003	Air Force/Applied Physical Electronics	\$97,818	Rapid Capacitor Charger
Mar-2003	US Army, University of Texas, Austin	\$25,060	Real Time Instrumentation of AC Alternators
Mar-2003	Air Force Office for Scientific Research	\$34,800	Explosive Driven Power Generation for Directed Energy Munitions
May-2003	Air Force Office for Scientific Research	\$10,000	Pulsed Power Conference
June-2003	Air Force/ARC Technology	\$99,860	Rapid Capacitor Charger
Feb-2004	U.S. ARMY Research Lab	\$19,750	Modeling of SiC Semiconductors
Sep-2004	Northrop Grumman Marine Systems	\$40,000	Development of HVDC Power Modules
Dec-2004	Northrop Grumman Marine Systems	\$40,000	Development of HVDC Power Modules
Feb-2005	Northrop Grumman Marine Systems	\$43,000	Development of HVDC Power Modules
Apr-2005	Northrop Grumman Marine Systems	\$94,000	Development of HVDC Power Modules
Jul-2005	Northrop Grumman Marine Systems	\$60,440	Development of HVDC Power Modules
Aug-2005	AFOSR/HEM Technologies	\$20,000	Components for Multi-Stage Electromagnetic Launchers
Nov-2005	Northrop Grumman Marine Systems	\$53,096	Development of HVDC Power Modules
Dec-2005	US Army, University of Texas, Austin	\$2,200	Support of IAT for UA-Army Mobile Electric Platforms
Jan-2006	Applied Physical Electronics	\$10,030	Development of an 8-inch Rapid Capacitor Charger
Mar-2006	Northrop Grumman Marine Systems	\$40,000	Development of HVDC Power Modules
Mar-2006	Northrop Grumman Marine Systems	\$20,000	Development of HVDC Power Modules
May-2006	Power Conservation, Ltd.	\$45,408	Characterization of a Power Controller Unit for Induction Motors
Jul-2006	Northrop Grumman Marine Systems	\$27,000	Development of HVDC Power Modules
Jan-2007	Northrop Grumman Marine Systems	\$25,000	Development of HVDC Power Modules
May-2007	Northrop Grumman Marine Systems	\$25,000	Development of HVDC Power Modules
Jun-2007	Applied Physical Electronics, L.C.	\$59,446	Development of a Rapid Capacitor Charger for Commercialization
Aug-2007	Lynntech, Inc.	\$22,386	Pulsed Power System for Gas Processing
May-2008	TECO Westinghouse Motor Company	\$89,578	Dev. of a Smart Controller & Aux. Pwr. Supply for MW-Level Drives
July-2008	U.S. Department of Energy	\$39,360	Great Plains Wind Power Test Facility
Sep-2008	Dept of Labor/Tx	\$50,000	Texas Wind Power Institute
Mar-2009	AFOSR/University of Texas Austin	\$158,928	MURI Distributed Railgun Development for Affordable Space Access
Jan-2010	U.S. Department of Energy	\$38,060	Great Plains Wind Power Test Facility
Mar-2010	U.S. Army Research Office	\$75,000	Semiconductor Evaluation for EM Gun Applications
Mar-2010	AFOSR/University of Texas Austin	\$84,998	MURI Distributed Railgun Development for Affordable Space Access
Sep-2010	National Science Foundation	\$20,750	MRI-Development of Real Time Simulator for Smart Grid Systems
Sep-2010	U.S. Department of Energy	\$60,000	FY 11 Great Plains Wind Power Test Facility
Jan-2011	DOE/University of Minnesota	\$8,333	ARRA/Revitalize Electric Power Engineering Education
Mar-2011	U.S. Army Research Office	\$100,190	Semiconductor Evaluation for EM Gun Applications
Jul-2011	DOE/University of Minnesota	\$8,333	ARRA/Revitalize Electric Power Engineering Education
Oct-2011	U.S. Army/ARC Technology	\$40,625	Development of 100 kV Capacitor Charger
Nov-2011	Dept. of Energy/NREL	\$49,792	Gearbox Design for U.S.-Sourced, Next Generation Drivetrain
Feb-2012	U.S. Army Research Office	\$125,000	Semiconductor Evaluation for EM Gun Applications
May-2012	TECO Westinghouse Motor Company	\$42,961	Modular Transformer Design for MW-Level Drives
Oct-2012	Ctr. for Commercialization of Electric Technologies	\$150,473	Technology Solution for Wind Integration
Oct-2012	U.S. Army Research Office	\$25,000	Semiconductor Evaluation for EM Gun Applications
	Total	\$3,839,819	<i>Fraction credited to Dr. Giesselmann for Multi-Investigator Projects</i>

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

	Function	Name	Degree	Grad. Date
1.	Committee Chair	- Scott Clark	(EE) Ph.D.	ongoing
2.	Committee Chair	- Shad Holt	(EE) Ph.D.	ongoing
3.	Committee Chair	- Travis T. Vollmer	(EE) Ph.D.	2012
4.	Committee Co-Chair	- Jacob Wayne Day	(EE) Ph.D.	2011
5.	Committee Co-Chair	- Ryan Karhi	(EE) Ph.D.	2010
6.	Committee Chair	- Jeffery P. Diehl	(ME) M.S.	2010
7.	Committee Chair	- Travis T. Vollmer	(EE) M.S.	2009
8.	Committee Chair	- Babar Chaudhry	(EE) M.S.	2009
9.	Committee Chair	- Ryan Christopher Edwards	(EE) Ph.D.	2007
10.	Committee Chair	- Brent McHale	(EE) Ph.D.	2006
11.	Committee Chair	- Brandon Paul Dixon	(EE) M.S.	2004
12.	Committee Chair	- Suneetha Parupalli	(EE) M.S.	2004
13.	Committee Chair	- Edwards, Ryan Christopher	(EE) M.S.	2004
14.	Committee Chair	- Raghotham Reddy Nathadi	(EE) M.S.	2004
15.	Committee Co-Chair	- Tammo Heeren	(EE) Ph.D.	2003
16.	Committee Chair	- Brent McHale	(EE) M.S.	2003
17.	Committee Chair	- Alison Nicole Dusang	(EE) M.S.	2003
18.	Committee Chair	- Jin Gi Kim	(EE) Ph.D.	2002
19.	Committee Chair	- Ali Buendia	(EE) M.S.	2001
20.	Committee Chair	- Tammo Heeren	(EE) M.S.	2000
21.	Committee Chair	- Eric Kristiansen	(EE) M.S.	2000
22.	Committee Chair	- Guruprakash Radhakrishnan	(EE) M.S.	2000
23.	Committee Chair	- Mohammed Haider	(EE) M.S.	1999
24.	Committee Co-Chair	- Stephen Bayne	(EE) Ph.D.	1997
25.	Committee Chair	- Brent Crittenden	(EE) M.S.	1996
26.	Committee Chair	- Zia Mahmud	(EE) M.S.	1996
27.	Committee Co-Chair	- Wasim Faruk	(EE) M.S.	1996
28.	Committee Chair	- Clifford Eldred	(EE) M.S.	1993
29.	Committee Chair	- Diana Loree (Adkins)	(EE) Ph.D.	1991
30.	Committee Chair	- John E. Burke	(EE) M.S.	1989
1.	Committee Member	- Stephen Peterson	(IE) Ph.D.	ongoing
2.	Committee Member	- Brian Steiner	(EE) M.S.	2012
3.	Committee Member	- Bejoy Pushpakaran	(EE) M.S.	2012
4.	Committee Member	- Charlie S. Anderson	(EE) M.S.	2011
5.	Committee Member	- Jacob C. Stephens	(EE) M.S.	2011
6.	Committee Member	- Kevin J. Lawson	(EE) M.S.	2011
7.	Committee Member	- Bryce Gaston	(EE) M.S.	2011
8.	Committee Member	- Chris Pattison	(EE) Ph.D.	2011
9.	Committee Member	- Jerry Lopez	(EE) Ph.D.	2011
10.	Committee Member	- Andrew Young	(EE) Ph.D.	2011
11.	Committee Member	- Charlie Anderson	(EE) M.S.	2011
12.	Committee Member	- Po-Hsing Wu	(EE) M.S.	2010
13.	Committee Member	- Travis Schricker	(EE) M.S.	2010
14.	Committee Member	- Jason R Korn	(EE) M.S.	2010
15.	Committee Member	- Anusha Kolla	(EE) M.S.	2008
16.	Committee Member	- Chintan Trehan	(EE) Ph.D.	2007
17.	Committee Member	- Bryan McDaniel	(EE) M.S.	2006
18.	Committee Member	- Michael Pate	(EE) Ph.D.	2005
19.	Committee Member	- Sam A. Lewis	(EE) M.S.	2005
20.	Committee Member	- Dimitry Markov	(EE) Ph.D.	2004
21.	Committee Member	- Chintan Trehan	(EE) M.S.	2004
22.	Committee Member	- Michael Hoffman	(EE) M.S.	2003
23.	Committee Member	- Gilberto Zamora	(EE) Ph.D.	2002
24.	Committee Member	- Molly Dickens	(EE) Ph.D.	2002

25.	Committee Member	- Roberto Izquierdo	(EE) M.S.	2001
26.	Committee Member	- Praveen Maraju	(EE) M.S.	2001
27.	Committee Member	- Zhan Mei	(EE) M.S.	2001
28.	Committee Member	- Efren Brito	(EE) M.S.	2001
29.	Committee Member	- Ramiro Castellanos	(EE) Ph.D.	2000
30.	Committee Member	- Taarinya Polepeddi	(EE) M.S.	2000
31.	Committee Member	- Michael David Cevallos	(EE) M.S.	2000
32.	Committee Member	- Kallepalli, Shyam	(EE) M.S.	2000
33.	Committee Member	- Pavan Mula	(EE) M.S.	1999
34.	Committee Member	- Nabin Shrestha	(EE) M.S.	1999
35.	Committee Member	- Shuhui Li	(EE) Ph.D.	1999
36.	Committee Member	- Naveen Anumalla	(EE) M.S.	1999
37.	Committee Member	- Zhongqiang Zheng	(EE) M.S.	1998
38.	Committee Member	- Jason Elliot	(EE) M.S.	1997
39.	Committee Member	- Tina Darlene Stewart	(EE) M.S.	1997
40.	Committee Member	- John Mankowski	(EE) Ph.D.	1997
41.	Committee Member	- Worapoj Kreesuradej	(EE) Ph.D.	1996
42.	Committee Member	- David Lojewski	(EE) Ph.D.	1996
43.	Committee Member	- Scott Aylor	(EE) M.S.	1996
44.	Committee Member	- Michelle Wofford (Caldwell)	(EE) Ph.D.	1995
45.	Committee Member	- Stephen Bayne	(EE) M.S.	1994
46.	Committee Member	- James Claude Dickens	(EE) M.S.	1991
47.	Committee Member	- Michelle Wofford (Caldwell)	(EE) M.S.	1991
48.	Committee Member	- Galen Kunka	(EE) M.S.	1991
49.	Committee Member	- Brian N. Strecker	(EE) M.S.	1991
50.	Committee Member	- Steven Batsel	(EE) Ph.D.	1990
51.	Committee Member	- Diana Loree (Adkins)	(EE) M.S.	1988

PUBLICATIONS

PUBLICATIONS

1. W. Pfeiffer, M. Giesselmann, P. Völker, "Pre-Discharge Development at Interfaces between Gaseous and Solid Dielectrics", 1982 IEEE International Symposium on Electrical Insulation, Philadelphia, June 1982.
2. W. Pfeiffer, M. Giesselmann, and P. Völker, "Spatial and Temporal Pre-Discharge Development at Insulator Surfaces in Compressed Gases", Proceedings of the Seventh International Conference on Gas Discharges and their Applications (GD'82) London, U.K., p. 277-279, September 1982.
3. M. Giesselmann, W. Pfeiffer, "Influence of Solid Dielectrics upon Breakdown Voltage and Pre-Discharge Development in Compressed Gases", "Gaseous Dielectrics IV", Pergamon Press, Editor: L.G. Christophorou, p. 431-437, New York 1984.
4. M. Giesselmann, W. Pfeiffer, "Flashover Mechanism and Dielectric Strength of Gas / Solid Interfaces", 1984 IEEE International Symposium on Electrical Insulation, Montreal, Canada, June 1984, Conference Record, p. 218-221.
5. M. Giesselmann, W. Pfeiffer, J. Wolf, "Nanosecond, Pulsed Breakdown of N₂ and SF₆", Conference on Electrical Insulation and Dielectric Phenomena", CEIDP, Clayton, Delaware, Conference Record, p. 343-348, 1984.
6. M. Giesselmann, I. Kusuma, W. Pfeiffer, and J. Wolf, "Breakdown Development of Pulsed N₂ and SF₆ Gaps", 5th IEEE Pulsed Power Conference, Arlington, Virginia, Conference Record, p. 84-87, June 10-12, 1985.

7. M. Giesselmann, I. Kusuma, W. Pfeiffer, and J. Wolf, "Discharge Development in SF₆ and SF₆ - N₂ Mixtures under Impulse Voltage Stress", Proceedings of the Eighth International Conference on Gas Discharges and their Applications (GD'85) Oxford, U.K., p. 278-281, September 1985.
8. M. Giesselmann, "Diagnostics of Pulsed Discharges", 1985 meeting of Short Time Physics, Bayreuth, Germany.
9. M. Giesselmann, W. Pfeiffer, J. Wolf, "Voltage - Time Characteristics in SF₆ and SF₆ - N₂ Mixtures", 1986 IEEE International Symposium on Electrical Insulation, Washington D.C., June 1986.
10. Michael Giesselmann, "[Kurzzeitoptische Untersuchungen der Entladungsentwicklung in N₂ und SF₆ an Modellanordnungen bei Gleich- und Impulsspannung](#)" (*Short Time Optical Investigations of the Discharge Development in N₂ and SF₆ at Model Arrangements under DC- and Impulse Voltage Stress*), Ph.D. Dissertation, August 1986 (*in German*).
11. M. Giesselmann, B. Pashaie, M. Kristiansen, and G. Schaefer, "Laser Enhanced Attachment in Diffuse Gas Discharges", 1987 IEEE International Conference on Plasma Science, June 1-3, 1987, Arlington, Virginia.
12. M. Giesselmann, W. Pfeiffer, and J. Wolf, "Short Time Optical and Electrical Diagnostics of Pulsed N₂ and SF₆ Discharges", Proceedings of the 6th IEEE Pulsed Power Conference, June 29-July 1, 1987, Arlington, Virginia, p. 182...186.
13. D. Adkins, M. Giesselmann, and M. Kristiansen, "The Performance of New, Redesigned Ignitron Tubes in Axial Magnetic Fields", 4th Symposium on Electromagnetic Launch Technology", April 19-21, 1988, Austin, Texas.
14. D. Adkins, M. Giesselmann, and M. Kristiansen, "The Performance of New, Redesigned Ignitron Tubes in Axial Magnetic Fields", IEEE Transactions on Magnetics, Vol. 25, No. 1, January 1989, p. 27...32.
15. D. Adkins-Loree, M. Giesselmann, and M. Kristiansen, "Axial Magnetic Field Effects on Redesigned Ignitrons Utilizing Glass Walls and Cylindrical Dielectric Inserts", Proceedings of the 18th Power Modulator Symposium, June 20-22, 1988, Hyatt Regency, Hilton Head Island, South Carolina, p. 241...246.
16. D. Adkins-Loree, M. Giesselmann and M. Kristiansen, "Dielectric strength of High Power Ignitrons in Axial Magnetic Fields", Proceedings of the 1988 IEEE International Symposium on Electrical Insulation and Dielectric Phenomena, CEIDP, October 1988, Ottawa, Canada, p. 72...77.
17. G. Schaefer, M. Giesselmann, B. Pashaie, and M. Kristiansen, "CO₂-Laser Enhanced Electron Attachment in Externally Sustained Diffuse Gas Discharges Containing Vinyl Chloride", Journal of Applied Physics 64 (11), 1 December 1988, p. 6123...6127.
18. J.P. Craig and M. Giesselmann, "Computer Aided Teaching of Electromagnetic and Electro-mechanical Energy Conversion Devices", 21st Frontiers of Power Conference, October 10-11, 1988, Oklahoma State University, Oklahoma City, Oklahoma.
19. D.L. Adkins-Loree, M. Giesselmann, M. Kristiansen, "The Effects of Axial Magnetic Fields on High Current, High Coulomb Ignitrons", Fall Meeting of AAPT, APS and SPS, November 4-5, 1988, Lubbock, Texas.
20. J.E. Burke, D.L. Loree, M. Giesselmann, and M. Kristiansen, "Optical Study of the Effects of Anode Geometry on the Performance of an Ignitron", Proceedings of the 7th IEEE Pulsed Power Conference, Monterey, California, June 11-14, 1989.

21. D.L. Loree, J.E. Burke, M. Giesselmann, and M. Kristiansen, "Preliminary Interferometric Investigations of a Demountable Ignitron", Proceedings of the 7th IEEE Pulsed Power Conference, Monterey, California, June 11-14, 1989.
22. D.L. Loree, M. Giesselmann, M. Kristiansen and A. Shulski, "Plasma Diagnostics for High Power Ignitron Development", 5th Symposium on Electromagnetic Launch Technology (EML), April 2-5, 1990, Destin, Florida.
23. D.L. Loree, M. Giesselmann, M. Kristiansen and A. Shulski, "Plasma Diagnostics for High Power Ignitron Development", IEEE Transactions on Magnetics, Vol. 27, No.1, January 1991.
24. D.L. Loree, M. Giesselmann, and M. Kristiansen, "Ignitron Research at Texas Tech University," International Magnetic Pulse Compression Workshop, Granlibakken Conference Center, Lake Tahoe, California, Feb. 12-14, 1990.
25. M. Giesselmann, "Recent Developments" of the Mercury Pool Cathode Ignitron, published in "Gas Discharge Closing Switches", edited by Gerhard Schaefer, M. Kristiansen, and A. Guenther, Plenum Press, 1991, p. 486..488.
26. D.L. Loree, M. Giesselmann, M. Kristiansen, A. Shulski, R. Kihara, "Recent Advances in High Power Ignitron Development", 19th Power Modulator Symposium, June 26-28, 1990, San Diego, Ca., IEEE Transactions on Electron Devices, Vol. 30, No. 4, p. 720...725, April 1991.
27. D.L. Loree, M. Giesselmann, E. Loree, M. Kristiansen, and A. Shulski, "Recombination Studies of a High Current Ignitron", 8th IEEE International Pulsed Power Conference", June 15-19, 1991, San Diego, California.
28. D. Doan, M. Tanner, S. Wester, M. Giesselmann, "A Voltage Inverter for Speed Control of 3-Phase Induction Motors", 26th Annual IECEC, Boston, Massachusetts, August 4-9, 1991.
29. D.L. Loree, M. Kristiansen, M. Giesselmann, and D. Larson, "A Status Report on Project Hercules", Sixth Symposium on Electromagnetic Launch Technology (EML), Austin, Texas, April 28-30, 1992.
30. D.L. Loree, M. Giesselmann, and M. Kristiansen, "Spark Gap Ignitor Studies on a Pulsed Power Ignitron", XVth International Symposium on Discharges and Electrical Insulation in Vacuum, Darmstadt, Germany, Sep. 6-10, 1992.
31. D.L. Loree, and M. Giesselmann, "Results of Lifetime Testing of Pulsed Power Switches Using an Electrolytic Capacitor Bank", 9th IEEE Pulsed Power Conference, Albuquerque, New Mexico, June 21-23, 1993.
32. M. Giesselmann, "Advanced Modeling of Adjustable Speed AC-Motor Drives using PSpice", IMACS-TC1 '93, 4th International Conference on Computational Aspects of Electromechanical Energy Converters and Drives, July 7-9, 1993, Montreal, Quebec, Canada.
33. M. Giesselmann, C. Eldred, and D. Seitz, "Development of Next Generation Intelligent Power Modules for Induction Motor Drives and Dynamic Modeling of Machine Behavior", IECEC-93, Atlanta, Georgia, August 8-13, 1993.
34. M. Giesselmann, "Life Time Testing of High Power Ignitrons", Proceedings of the 21st IEEE Power Modulator Symposium, Costa Mesa, California, June 27-30, 1994.
35. G. Choudhury and M. Giesselmann, "Development of Induction Motor Drives with Real Time PWM Control and Dynamic Modeling of Drive Performance", IECEC-94, Monterey, California, August 7-11, 1994.

36. M. Giesselmann, "Review of various Induction Machine Models and Field Oriented Controllers for Design Center 3 (PSpice) using the Windows Interface", 5th International IMACS-Symposium on Systems Analysis and Simulation, Berlin, Germany, June 26-30, 1995.
37. M. Giesselmann, "Design Considerations and Dynamic modeling of Turbo-Alternators using PSpice for Windows", Proceedings of the 10th IEEE International Pulsed Power Conference, Albuquerque, New Mexico, July 3-6, 1995.
38. M. Giesselmann and B. Crittenden, "Design and Construction of a Neutral Point Clamped Inverter", Proceedings of the 22nd International Power Modulator Symposium, Boca Raton, Florida, June 24-27, 1996.
39. M. Giesselmann, Z. Mahmud and S. Carson, "Investigation of Power MOSFET switching at cryogenic (LN₂) temperatures", Proceedings of the 22nd International Power Modulator Symposium, Boca Raton, Florida, June 24-27, 1996.
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