

# Veröffentlichungen

**Prof. Dr.-Ing. habil. Christian Weindl**

(Stand 18.03.2020)

134. I. Mladenovic, Ch. Weindl: Study on Performance, Reliability & Diagnostic Possibilities of the MV PILC Cables; Part 1 – Artificial Ageing Experiment & Diagnostic Parameters, Transactions on Dielectrics and Electrical Insulation, to be published
133. I. Mladenovic, Ch. Weindl: Study on Performance, Reliability & Diagnostic Possibilities of the MV PILC Cables; Part 2 – Diagnostic Parameters and their Dependencies, Transactions on Dielectrics and Electrical Insulation, to be published
132. I. Mladenovic, Ch. Weindl: Study on Performance, Reliability & Diagnostic Possibilities of the MV PILC Cables; Part 3 – Innovative Approach for Remaining Lifetime Determination, Transactions on Dielectrics and Electrical Insulation, to be published
131. A.-C. Müller, T. Blenk, Ch. Weindl, A.-K. Gerlach, D. Geiger: Accelerated Aging of MV Cables as a Function of Grid Utilization; IEEE 2020 International Conference on Dielectrics (IEEE ICD 2020), July 05. -9., Valencia, Spain; 2020
130. T.Blenk, Ch. Weindl, T. Hertlein, A. Bauer, I. Mladenovic: Load Control through Asset Management based on Incentive Regulation; International Conference on Diagnostics in Electrical Engineering (Diagnostika);Pilsen, 2020, Czech Republic
129. M. Zapf, H. Pengg, Ch. Weindl: How to Comply with the Paris Agreement: Global Carbon Pricing According to Carbon Budgets, Energies from MDPI, Open Access Journal 2019
128. M. Zapf, H. Pengg, Th. Bütler, C. Bach, Ch. Weindl: Economical and Sustainable Powertrain Technologies. 10. Biokraftstoffsymposium, July 25, Coburg, Germany, 2019
127. T. A. Hertlein, Ch. Weindl, I. Mladenovic, T. Blenk: Structural function and operation of a cluster-based energy management system, Power and Energy Student Summit 2019 (PESS 2019), July 9.-11., Magdeburg, 2019
126. A.-C. Müller, Ch. Weindl: Entwicklung und Applikation eines Systems zur künstlich beschleunigten Alterung und zur diagnostischen Analyse von Betriebsmitteln im Mittelspannungsbereich, BayWISS-Jahreskolloquium des Bayerischen Wissenschaftskolloquiums 2019, June 12., Regensburg, Germany, 2019

125. E. Fischer: Entwicklung und Verifikation eines messtechnischen Verfahrens zur orts aufgelösten Evaluierung dielektrischer Eigenschaften von Energieversorgungskabeln, Dissertation, Technische Fakultät der Friedrich-Alexander-Universität Erlangen-Nürnberg, 2019
124. M. Zapf, H. Pengg, Th. Bütler, C. Bach, Ch. Weindl: Kosteneffiziente und nachhaltige Automobile. Bewertung der Klimabelastung und der Gesamtkosten – Heute und in Zukunft, 1. Aufl. Wiesbaden: Springer Fachmedien Wiesbaden GmbH; Springer Vieweg, 2019
123. T. Blenk, Ch. Weindl, T.-A. Hertlein I. Mladenovic: Marktgesteuerte Flexibilisierung der Netznutzung und netzorientierter Lastausgleich, 2. Regenerative Energietechnik Konferenz in Nordhausen (RetCon 2019), February 7.-8., Nordhausen, 2019
122. A.-C. Müller, Ch. Weindl: Influences of changed Grid Utilization by Renewable Energies on the Ageing Behavior of Medium Voltage Cables, Jicable 2019 - 10th International Conference on Insulated Power Cables, June 23.-27., Versailles, France; 2019
121. M. Zapf, Ch. Weindl: Power-to-Gas als Zukunftsoption, KWK-Jahreskonferenz 2018, September 06.-07., 2018, Dresden, Deutschland
120. R. Böhm, Ch. Weindl, J. Franke: Control of a hybrid storage system (HSS) comprising a RedOx-Flow Battery and a High Speed Flywheel for a hybrid compensation system, 8th IEEE PES Innovative Smart Grid Technologies Conference Europe (2018 IEEE PES ISGT Europe), October 21.-25., 2018, Sarajevo, Bosnia and Herzegovina
119. M. Zapf, Ch. Weindl, H. Pengg, R. German: Specific Grid Charges for Controllable Loads in Smart Grids – A Proposal for a Reform of the Grid Charges in Germany, Conference on Sustainable Energy Supply and Energy Storage Systems (IEEE-NEIS 2018), September 20.-21., 2018, Hamburg, Germany
118. M. Zapf, Ch. Weindl, H. Pengg: Market Mechanisms and a Regulatory Framework as an Incentive System to Increase the Flexibility of Power Consumption, 2018 International Conference on Diagnostics in Electrical Engineering (IEEE – CDEE), September 4.-7., 2018, Pilsen, Czech Republic
117. F. Epplein, Ch. Weindl: Aspects interpreting PILC cables' diagnostic parameters measured at different test voltage frequencies, 2018 International Conference on Diagnostics in Electrical Engineering (IEEE – CDEE), September 4.-7., 2018, Pilsen, Czech Republic
116. E. Fischer, Ch. Weindl: Spatially-resolved diagnosis of power cables in field environment: challenges and opportunities, 2018 International Conference on Diagnostics in Electrical Engineering (IEEE – CDEE), September 4.-7., 2018, Pilsen, Czech Republic

115. T. Blenk, Ch. Weindl, A. Bauer, I. Mladenovic: Market-driven flexibility of grid usage and network-oriented load balancing, 2018 International Conference on Diagnostics in Electrical Engineering (IEEE – CDEE), September 4.-7., 2018, Pilsen, Czech Republic
114. A.-C. Müller, Ch. Weindl, J. Schramm: Requirements of a system for the artificial aging of paper-insulated-lead covered medium voltage cables, 2018 International Conference on Diagnostics in Electrical Engineering (IEEE – CDEE 2018), September 4.-7., 2018, Pilsen, Czech Republic
113. M. Zapf, Ch. Weindl, H. Pengg: Requirements for Cost Allocation in the future Electricity Market Design based on the Expansion of Renewable Energies, iSEnEC: Integration of Sustainable Energy Conference, July 17.-18., 2018, Nuremberg, Germany
112. M. Zapf, Ch. Weindl: Netzentgeltssystematik für steuerbare Verbrauchseinrichtungen, Fachforum im Rahmen des Arbeitskreis Regulierungsmanager (AK REM) der KVK Kompetenzzentrum Verteilnetze und Konzessionen GmbH, Eisenach, 19.04.2018
111. M.Zapf, Ch.Weindl, H.Pengg: Reform der Netzentgelte in Smart Grids - Vorschlag zur Änderung der Stromnetzentgelte für steuerbare Verbrauchseinrichtungen, ew - das magazin für die energiewirtschaft, EW Medien und Kongresse GmbH, Ausgabe 01/2018, Berlin, 2018
110. M.Zapf, Ch.Weindl, H.Pengg: Reform der Netzentgelte - Stromnetzentgelte für steuerbare Verbrauchseinrichtungen, ew - das magazin für die energiewirtschaft, EW Medien und Kongresse GmbH, Ausgabe 01/2018, Berlin, 2018
109. E. Fischer, Ch. Weindl:, Analysis of Field Measurement Results of a Spatially Resolved Diagnostic Method for Power Cables, 20th International Symposium on High Voltage Engineering, August 27 - September 01, 2017, Buenos Aires, Argentina
108. F. Epplein, Ch. Weindl: Comparison of VLF and Power Frequency Measurements for Diagnostic Analysis of MV PILC Cables, 20th International Symposium on High Voltage Engineering, August 27 - September 01, 2017, Buenos Aires, Argentina
107. E. Fischer, Ch. Weindl:, Measurement Results of a Spatially-Resolved Diagnostic Method and Influencing Factors in Field Environment of MV Power Cables, 24th International Conference & Exhibition on Electricity Distribution CIREN 2017, 12-15 June 2017, Glasgow, Scotland, UK
106. F. Epplein, Ch. Weindl, I. Mladenovic: Analysis and Evaluation of Dielectric Parameters for Design Verification and Calibration of a newly developed Diagnostic System, 24th International Conference & Exhibition on Electricity Distribution CIREN 2017, 12-15 June 2017, Glasgow, Scotland, UK
105. M. Zapf, Ch. Weindl: Gastkommentar: "Umlagen sollten von allen Letztverbrauchern getragen werden", energate messenger, 03/2017

104. E. Fischer, Ch. Weindl: Ausnutzung der Interferenzeigenschaften von Wanderwellen zur ortsauflösenden Diagnose von Mittelspannungskabeln, VDE-Fachtagung Hochspannungstechnik 2016, 15.-16.11.2016, Berlin, Deutschland
103. Th. Scharrer, F. Epplein, Ch. Weindl: Entwicklung eines Messsystems zur Offline-Diagnose von Mittelspannungskabeln, VDE-Fachtagung Hochspannungstechnik 2016, 15.-16.11.2016, Berlin, Deutschland
102. A. M. Lehmann, K. Raab, F. Gruber, E. Fischer, R. Muller, J. B. Huber: A Diagnostic Method for Power Line Networks by Channel Estimation of PLC Devices. IEEE International Conference on Smart Grid Communications, 6-9 November 2016, Sydney, Australia
101. E. Fischer, Ch. Weindl: Laboratory measurement results of a spatially-resolved diagnostic method for power cables using travelling waves, 2016 International Conference on Diagnostics in Electrical Engineering (IEEE – CDEE), September 6.-8., 2016, Pilsen, Czech Republic
100. Th. Scharrer, F. Epplein, Ch. Weindl: Diagnostic System for Off-Line Diagnosis of MV Cables, 2016 International Conference on Diagnostics in Electrical Engineering (IEEE – CDEE), September 6.-8., 2016, Pilsen, Czech Republic
99. E. Fischer, Ch. Weindl: Experimental Results of a Diagnostic Measurement Method for Power Cables Using Interference Characteristics of Travelling Waves, 2016 Electrical Insulation Conference (EIC 2016), 19.-22. June 2016, Montreal, USA
98. Th. Scharrer, F. Epplein, Ch. Weindl: Development of a Measurement System for Off-line Diagnosis of MV Cables, 2016 Electrical Insulation Conference (EIC 2016), 19.-22. June 2016, Montreal, USA
97. Erik Fischer, Christian Weindl: Spatially-resolved measurement and diagnostic method for power cables using interference characteristics of travelling waves, CIGRE Science & Engineering Journal, Invited Journal Paper, CIGRE, 2015
96. Christian Weindl: Empirical Determination of the Remaining Lifetime through Artificial Ageing of Power System Components – Example PILC, 2015 INMR World Congress on Insulators, Arresters, Bushings & Cable Accessories, Westin Grand Hotel, October 18-21, 2015, Munich, Germany
95. Ivana Mladenovic, Christian Weindl: Improvement of the Lifetime Prognosis of MV Cables - Dissipation Factor and its Supplement Parameters as Diagnostic Tool, 19<sup>th</sup> International Symposium on High Voltage Engineering (ISH2015), University of West Bohemia Pilsen, August 23.-28., 2015, Pilsen, Czech Republic
94. Erik Fischer, Christian Weindl: Spatially-resolved measurement and diagnostic method for power cables using interference characteristics of travelling waves, 9th

International Conference on Insulated Power Cable (JICABLE 2015), 21-25 June 2015, Paris-Versailles, France

93. Ivana Mladenovic, Christian Weindl, Thomas Scharrer: Essential Strategies for the Remaining Lifetime Estimation of MV Cable Systems, 23<sup>rd</sup> International Conference and Exhibition on Electricity Distribution, CIRED 2015, Lyon, France, 15.-18. June 2015
92. Matthias Luther, Ivana Mladenovic, Christian Weindl, Rainer Schmidt: Analysis of Low Voltage Networks with High Distributed Power Generation, 23<sup>rd</sup> International Conference and Exhibition on Electricity Distribution, CIRED 2015, Lyon, France, 15.-18. June 2015
91. Th. Scharrer, I. Mladenovic, Ch. Weindl: Entwicklung eines Messsystems zur dielektrischen Diagnose von 20kV-Mittelspannungskabeln, ETG-Fachtagung Diagnostik elektrischer Betriebsmittel, VDE-ETG Konferenz, Berlin, 2014
90. E. Fischer, Ch. Weindl: Ortsauflösende Diagnoseverfahren für Energieversorgungskabel und deren Perspektive, ETG-Fachtagung Diagnostik elektrischer Betriebsmittel, VDE-ETG Konferenz, Berlin, 2014
89. E. Fischer, Ch. Weindl: Perspective on Spatially-Resolved Diagnostic Methods for Power Cables," 2014 IEEE Electrical Insulation Conference (EIC 2014), 8-11 June 2014, Philadelphia, PA, USA, pp 382 – 386, ISBN: 978-1-4799-2787-6 © 2014 IEEE
88. Christian Weindl, Ivana Mladenovic, Thomas Scharrer, Vom Alterungsversuch zur zustandsorientierten Instandhaltung, ew - das magazin für die energiewirtschaft, Ausgabe 12/2013, 2013
87. Christian Weindl, Die Durchblicker: Kabeltestanlage Universität Erlangen, Interview des Bayerischen Rundfunks, ©BR, SWR, 11.06.2013, WDR5, 12.06.2013, NDR, 16.06.2013
86. I. Mladenovic, Ch. Weindl: Interpretation Possibilities of the Diagnostic Measurements on Power Cables and their Compatibility, IEEE CEIDP 2013, China, 2013
85. I. Mladenovic, Th. Scharrer, Ch. Weindl: Influence of the Electrical and Environmental Test-Conditions on the Characteristic Parameters of Return Voltage Curve, CDEE 2013, Poznan, Czech Republic, 2013
84. I. Mladenovic, Th. Scharrer, Ch. Weindl: Effects of MV PILC Cables Ageing Process on the Diagnostic Parameters: p-factor and  $\tan\delta$ , IEEE ICSD 2013, Bologna, Italy, 2013
83. Ch. Freitag, I. Mladenovic, Ch. Weindl: An Interpretation Approach for in Field Measured Dissipation Factor Values of MV Cable Lines, IEEE ICSD 2013, Bologna, Italy, 2013

82. Ch. Freitag, I. Mladenovic, Ch. Weindl: Experiences of in field measured dissipation factor on MV PILC cables at 50 Hz, CIREC 2013, International Conference on Electricity Distribution, Stockholm, Sweden, 2013
81. Dr. Christian Weindl: Verfahren zur Bestimmung des Alterungsverhaltens und zur Diagnose von Betriebsmitteln der elektrischen Energieversorgung, Habilitationsschrift im Fachgebiet Elektrische Energieversorgung, Technische Fakultät der Friedrich-Alexander-Universität Erlangen-Nürnberg, 2012
80. Dipl.-Ing. Christian Freitag, Dipl.-Ing. Ivana Mladenovic, Dr.-Ing. Christian Weindl: Verlustfaktormessung an Mittelspannungskabeln bei Netzfrequenz, VDE-Kongress: Diagnostik elektrischer Betriebsmittel, Fulda, Deutschland, 2012
79. Dr. Christian Weindl, Dipl.-Ing. Ivana Mladenovic, Dipl.-Ing. Thomas Scharrer, Prof. Dr. Rainer Patsch: Analyse des Alterungsverhaltens von MS-Papier-Massekabeln unterschiedlicher Generationen anhand der Rückkehrspannung, VDE-Kongress: Diagnostik elektrischer Betriebsmittel, Fulda, Deutschland, 2012
78. I. Mladenovic, Ch. Weindl: Empiric Approach for Criteria Determination of Remaining Lifetime Estimation of MV PILC Cables, A chapter in Dielectric Material, ISBN 979-953-307-1016-8, InTech, DOI: 10.5772/51490, 2012
77. I. Mladenovic, Ch. Weindl, Ch. Freitag: Comparison of parametric Partial Discharge and Dissipation Factor Characteristics of MV PILC Cables, 2012 IEEE International Symposium on Electrical Insulation (ISEI), San Juan, Puerto Rico, 2012
76. I. Mladenovic, Ch. Weindl: Developments in the Diagnostics of MV PILC Cables, IEEE Electrical Insulation Magazine, January/February 2012
75. Hofmann H., Weindl C., Al-Amayreh M., Nilsson O.: Arc Movement inside an AC/DC Circuit Breaker working with a Novel Method of Arc Guiding: Part I – Experiments, Examination and Analysis, IEEE Journal Transactions on Plasma Science, 2012
74. Al-Amayreh M., Hofmann H., Nilsson O., Weindl C., Delgado A.: Arc Movement inside an AC/DC Circuit Breaker working with a Novel Method of Arc Guiding: Part II – Optical Imaging Method and Numerical Analysis, IEEE Journal Transactions on Plasma Science, 2012
73. Dr.-Ing. Christian Weindl: Systematische Alterungsuntersuchung an Papier-Masse-Isolierten Mittelspannungskabeln, VDE - FNN-Fachkongress Netztechnik, Erfurt, 28.-29.11.2011
72. C. Weindl, I. Mladenovic, C. Freitag: Systematische Alterungsuntersuchung an Papier-Masse-Isolierten Mittelspannungskabeln, Netzpraxis – Magazin für Energieversorgung, November 2011

71. I. Mladenovic, Th. Scharrer, Ch. Weindl: Alterung und Ästimation des Zustands von Papier-Masse Kabeln in Mittelspannungsnetzen, E&I Magazine, September 2011
70. I. Mladenovic, Ch. Weindl: Voltage- and Temperature-Dependencies of the Dissipation Factor of Pre-Aged PILC Cables, Jicable 2011- 8th International Conference on Power Insulated Cables, 19-23 June, Versailles France; 2011
69. I. Mladenovic, Ch. Weindl: Dependency of the Dissipation Factor on the Test-Voltage and the Ageing Status of MV PILC Cables, Jicable 2011 - 8th International Conference on Power Insulated Cables, 19-23 June, Versailles France; 2011
68. I. Mladenovic, Ch. Weindl: Dependencies of the PD- and  $\tan(\delta)$ -Characteristics on the Temperature and Ageing Status of MV PILC Cables, 2011 IEEE Electrical Insulation Conference (EIC 2011), 5 8th June, Annapolis, MD USA, 2011
67. Dr.-Ing. Christian Weindl: Masekabel am Ende?! Forschungsprojekt zur Ermittlung der Lebensdauer, Netztechnisches Symposium der Thüga AG, München, 31.05.2011
66. C. Freitag, C. Weindl, I. Mladenovic: On-Line Cable Diagnostic Possibilities in an Artificial Aging Environment, ICREPQ 2011, 13-15th April, Las Palmas de Gran Canaria Spain, 2011
65. Dr.-Ing. Christian Weindl: Determination of the Characteristic Life Time of PILC-Cables based on Electrical Diagnostic Methods, University of Plzen, Plzen, Czech Republic, 07.04.2011
64. Dr. Christian Weindl: Erste Ergebnisse empirischer Untersuchungen zur Alterung von papierisolierten MS-Kabeln - Forschungsprojekt zur Bestimmung der Restlebensdauer von Masekabeln anhand einer TE- und  $\tan(\delta)$ -Diagnose, Fachvortrag im Rahmen der VDE Arbeitsgruppe: Bewertung von TE-Messungen an MS-Kabeln, 24.03.2011, Nürnberg
63. I. Mladenovic; Ch. Weindl: Influence of the thermal stress on the diagnostic parameters of PILC cables, IEEE International Conference on Condition Monitoring and Diagnosis 2010, CMD 2010, 6-11 September, Tokyo, Japan, 2010
62. Ch. Weindl, I. Mladenovic, Th. Scharrer , R. Patsch: Development of the p-factor in an Accelerated Ageing Experiment of the MV PILC Cables, IEEE International Conference on Solid Dielectrics 2010, ICSD 2010, 4-9 July, Potsdam, Germany, 2010
61. I. Mladenovic, Ch. Weindl: Development of the Partial Discharges Inception Voltage for Different Sets of Pre-Aged PILC Cable Samples, 2010 IEEE International Symposium on Electrical Insulation (ISEI 2010), 6-9 June, San Diego USA, 2010
60. C. Freitag, I. Mladenovic, Ch. Weindl: Fully Automated MV Cable Monitoring and Measurement System for Multi-Sample Acquisition of Artificial Aging Parameters, ICREPQ 2010, 23-25 March, Granada Spain, 2010

59. Al-Amayreh M., Ausmeier S., Petchenko A., Delgado A., Iglseider H., Hofmann H., Weindl C., Nilsson O., Kralik R., Ignatov A.: Numerical and Experimental Investigation of the Arc Plasma inside a Circuit Breaker, 8th Euromech Fluid Mechanics Conference EFMC8 2010, September 13 – 16, 2010, Bad Reichenhall, Germany
58. Al-Amayreh M., Ausmeier S., Petchenko A., Delgado A., Iglseider H., Hofmann H., Weindl C., Nilsson O., Kralik R., Ignatov A.: Study of the Movement and the Light Emission of the Plasma Arc in a Contactor, 18. Fachtagung „Lasermethoden in der Strömungsmesstechnik“ 2010, September 7 – 9, 2010, Cottbus, Germany
57. Dr.-Ing. Christian Weindl, Dipl.-Ing. Ivana Mladenovic: Bestimmung der Restlebensdauer von Massekabeln anhand einer Teilentladungs- und  $\tan(\delta)$ -Diagnose, Determination of the Rest Life Time of PILC MV-Cables based on a Partial Discharge and  $\tan(\delta)$  Diagnostic, ETG Kongress 2009, Diagnostik elektrischer Betriebsmittel, Oktober 27-28, 2009 Düsseldorf (Germany)
56. I. Mladenovic, Ch. Weindl: ICAAS – Integrated System for lasting Accelerated Aging of MV Cables, Data Monitoring and Acquisition, IEEE Conference on Electrical Insulation and Dielectric Phenomena 2009, CEIDP 2009, October 18 - 21, 2009, Virginia Beach, USA
55. I. Mladenovic, Ch. Weindl: Determination of the Environmental Conditions for the Accelerated Ageing of MV-PILC Cables, 9th International Conference on Properties and Applications of Dielectric Materials 2009, ICPADM 2009, July 19-23, 2009, Harbin, China
54. Mladenovic I., Weindl C.: Empiric Approach to a Condition-Oriented Maintenance and Investment Strategy for MV Cable Networks, International Conference on CLEAN ELECTRICAL POWER - Renewable Energy Resources Impact 2009, ICCEP 2009, June 9-11, 2009, Capri (Italien)
53. Mladenovic I., Weindl C., Freitag C.: New System for MV-Cable ageing under controlled conditions, Congrès international des Réseaux électriques de Distribution 2009, CIRED 2009, June 8 - 11, 2009, Prague (Tschechia)
52. Dr. Christian Weindl, Ivana Mladenovic: Bestimmung der Restlebensdauer von Massekabeln anhand einer TE- und  $\tan(\delta)$  - Diagnose, 2. Ideenschmiede Teilentladungsdiagnose mit 50 Hz, 19.05.2009, N-ERGIE-Tagungszentrum Sandreuth, Nuremberg (Germany)
51. Mladenovic Ivana, Weindl Christian: Bestimmung der Restlebensdauer von Massekabeln anhand einer TE- und  $\tan(\delta)$  - Diagnose, 4. IMCORP Ideenschmiede, 14.05.2009, Gent (Belgien)
50. Al-Amayreh M., Ausmeier S., Hofmann H., Nilsson O., Weindl C., Delgado A.: Study of the Flow inside an Industrial Electrical Breaker - Experimental Analysis, 17. Fachtagung



„Lasermethoden in der Strömungsmesstechnik“ 2009, September 7 – 9, 2009, Erlangen, Germany

49. Al-Amayreh M., Ausmeier S., Petchenko A., Delgado A., Iglseeder H., Hofmann H., Weindl C., Nilsson O., Kralik R.: Systematic Design of an AC / DC Circuit Breaker with Novel Electric Arc Guiding, 2nd German – Jordanian Workshop „Energy and Alternative Fuels“ 2009, October 12 – 16, 2009, Amman, Jordan
48. Al-Amayreh M., Ausmeier S., Petchenko A., Delgado A., Iglseeder H., Hofmann H., Weindl C., Nilsson O., Kralik R.: Study of the Arc Plasma inside an Industrial Electrical Breaker, 21st International Conference on Numerical Simulation of Plasmas 2009, ICNSP 2009, October 6 – 9, 2009, Lisbon, Portugal
47. Dr. Christian Weindl, Ivana Mladenovic: Bestimmung der Restlebensdauer von Massekabeln anhand einer TE- und  $\tan(\delta)$  – Diagnose, Führungskreis der N-ERGIE AG, Stammhaus, 12.12.2008, N-ERGIE AG
46. Mladenovic I., Weindl C.: Determination of the Characteristic Life Time of Paper-insulated MV-Cables based on a Partial Discharge and  $\tan(\delta)$  Diagnosis, 14th International Power Electronics and Motion Control Conference, EPE-PEMC 2008, September 1 - 3, 2008, Poznan (Poland), 978-1-4244-1742-1/08/\$25.00 © 2008 IEEE
45. Skuletic S., Weindl Ch., Herold G.: Reliability and Quality of the Power System of Montenegro regarding the possibilities of exchanging Electricity to the neighboring Networks, to be published
44. Wu Bin, Weindl Ch., Herold G.: Raumzeiger-Modell von Drehstromsystemen mit Spannungszwischenkreis-Umrichtern, Elektrie, to be published
43. Hamzeh A., Weindl C., Herold G., Kaadan.M.: Wind resources assessment in Syria and restrictions of integrating wind Generation into the Grid in View of the German Experience, 4<sup>th</sup> World Wind Energy Conference and Exhibition, WWEC 2007, October 2 – 4, 2007, Mar del Plata (Argentina)
42. Dr. Christian Weindl: Bestimmung der Restlebensdauer von Massekabeln anhand einer TE- und  $\tan(\delta)$  - Diagnose, Ideenschmiede Teilentladungsdiagnose mit 50 Hz, 28.06.2007, N-Ergie-Tagungszentrum, Ansbach (Germany)
41. Al-Nasseir J., Weindl C., Herold G.: Dual-Inductive Snubber Circuit Design for Three-Level Inverter, 12th European Conference on Power Electronics and Applications, EPE 2007, September 2-5, 2007, Aalborg (Denmark)
40. Weindl Ch.: Future Role of HVDC & FACTS in Power Systems, Guest Lecture at the Faculty of Mechanical and Electrical Engineering, University of Damascus, Syria, April 04, 2007

39. Weindl Ch.: Application of Space Phasor Theory and State-Space Modeling in Modern Power Systems, Guest Lecture at the Faculty of Mechanical and Electrical Engineering, University of Damascus, Syria, April 03, 2007
38. Weindl Ch.: The Implementation of Scientific Topics and Industrial Projects at the Department of Electrical Power Systems at the University of Erlangen-Nürnberg, Guest Lecture at the Faculty of Mechanical and Electrical Engineering, University of Damascus, Syria, April 02, 2007
37. J. W. Gonzalez\*, C. Weindl†, G. Herold†, D. Retzmann††, H. A. Cardona\*, I. A. Isaac\* and G. J. Lopez: On the Indicators to qualify an HVDC connected to Very Weak AC Networks, Revista Investigaciones Aplicadas No. 1 (2007) 6-15, Publicada en linea por la Universidad Pontificia Bolivariana, Medellin, Colombia, 2007
36. Skuletic S., Weindl Ch., Herold G., Knezevic L.: Possibilities of Computer Application for the Design of Lightning Protection of High-Voltage Substations, 41st International Universities Power Engineering Conference, UPEC, 6th - 8th September 2006, Newcastle upon Tyne (United Kingdom)
35. J. W. Gonzalez\*, C. Weindl†, G. Herold†, D. Retzmann††, H. A. Cardona\*, I. A. Isaac\* and G. J. Lopez: Feasibility of HVDC for Very Weak AC Systems with SCR below 1.5, 12th International Power Electronics and Motion Control Conference, EPE-PEMC 2006, August 30 - September 1, 2006, Portoroz (Slovenia)
34. Al-Nasseir J., Weindl C., Herold G., J. Flotthmesch J.: A Dual-use Snubber Design for Multi-Level Inverter Systems, 12th International Power Electronics and Motion Control Conference, EPE-PEMC 2006, August 30 - September 1, 2006, Portoroz (Slovenia)
33. Wu Bin, Weindl Ch., Herold G.: Space Phasor Model of Three-Phase AC Systems with Current-Source Power Converters, Part II: Calculation of the Network Interactions & Exemplification Study, Electrical Engineering (Archiv für Elektrotechnik), Springer-Verlag, 2005, ISSN: 0948-7921 (Paper) 1432-0487 (Online) DOI: 10.1007/s00202-004-0287-6, Electrical Engineering 88 (2006) H 4, S. 309-316
32. Wu Bin, Weindl Ch., Herold G.: Space Phasor Model of Three-Phase AC Systems with Current-Source Power Converters, Part I: Theoretical Background, Electrical Engineering (Archiv für Elektrotechnik), Springer-Verlag, 2005, ISSN: 0948-7921 (Paper) 1432-0487 (Online) DOI: 10.1007/s00202-004-0286-7, Electrical Engineering 88 (2006) H 4, S. 297-307
31. Christian Weindl, Dieter Braisch, Uwe Nieberlein, Hochgenaue und EMV-sichere Messdatenerfassung für Hochstromanlagen, Bulletin SEV/AES 21/05, 2005
30. Gonzalez J. W., Cardona H. A., Isaac I. A., Lopez G. J., Weindl C., Herold G.: Riesgos de la Transmision en Corriente Directa para la Estabilidad de Voltaje en Sistemas de Potencia, III REUNION INTERNACIONAL DE GENERACIÓN & TRANSMISION Y

OPERADORES Y ADMINISTRADORES DE MERCADOS “RIESGO & PRODUCTIVIDAD”  
Medellín, 11-14 de Septiembre de 2005

29. Weindl C., Herold G.: *A Novel State-Space Oriented Transient Simulation Method for Power Systems with Power Electronic Devices*, 8th International Conference on Electrical Power Quality and Utilisation, September 21-23, 2005, Cracow, Poland, EPQU 05, Report96
28. Al-Nasseir, J.; Weindl, Ch.; Herold, G.: *An optimized Snubber Design for Three Level Inverter Systems*. 11th European Conference on Power Electronics and Applications, 11.-14. September 2005, Dresden (Germany), Bericht 81
27. Weindl Christian: *Developments, Possibilities and Requirements to Simulation Systems for modern Power Systems*, Chairman Course III - Energy Generation and Distribution, DAAD Summer Academy 2005, Petrovac, Montenegro, Aug. 27 - Sept. 07, 2005
26. Abido M. A., Weindl Ch., Herold G.: *STATCOM-Based Damping Stabilizers for Power System Stability Enhancement*, 11th International Conference on Power Electronics and Motion Control EPE-PEMC'2004, Riga, Latvia, September 2 - 4, 2004, Report A122653
25. Weindl Ch., Herold G.: *Description of a State-Space oriented transient Network Simulation Methodology for Power Systems with Semiconductor based Devices*, 11th International Conference on Power Electronics and Motion Control EPE-PEMC 2004, Riga, Latvia, September 2 - 4, 2004, Report A61318
24. Al Nasseir, J.; Weindl, Ch.; Herold, G.: *Calculation of Overvoltage and Losses in Three Level Inverters with Double Snubber Circuit*. 11th International Power Electronics and Motion Control Conference EPE-PEMC 2004, 2.-4. September 2004, Riga (Lettland), Report A24179
23. Weindl Ch., Herold G., Ebner G.: *Beschreibung und Berechnung eines dynamischen Zwischenphasenreglers, Teil II: Analytisches Lösungsverfahren – Beispielstudie*, ELEKTRIE 58 (2004), Nr. 1-12, S. 20-29
22. Weindl Ch., Herold G., Ebner G.: *Beschreibung und Berechnung eines dynamischen Zwischenphasenreglers, Teil I: Systembeschreibung – Analyse der Schaltzustände & Ableitung der Ersatznetzwerke*, ELEKTRIE 58 (2004), Nr. 1-12, S. 9-19
21. Ebner, Günter ; Weindl, Christian ; Herold, Gerhard: *Description of a novel Dynamic Interphase Power Flow Controller based on Power Semiconductors*. 10th European Conference on Power Electronics and Applications EPE'2003, Toulouse, Frankreich, September 2.-4., 2003, Report 62. ISBN 90-75815-07-7
20. Weindl Ch.: *Structural Changes and New Challenges of Electrical Power Systems with Emphasis on Simulation and Computation Methods*, Proceedings of the 2<sup>nd</sup> German-

- Syrian Symposium for Electrical and Mechanical Engineering '03, Albaath University - Homs, Syria, Oct. 19 - 26, 2003
19. Weindl Ch.: State-Space Approach for the Computation of Static Var Compensators in Large Electrical Distribution Systems, Proceedings of the 2<sup>nd</sup> German-Syrian Symposium for Electrical and Mechanical Engineering '03, Albaath University - Homs, Syria, Oct. 19 - 26, 2003
  18. Weindl Christian: Liberalization of the Electrical Energy Market and resulting technical Challenges, Chairman Course III - Energy Generation and Distribution, DAAD Summer Academy 2003, Petrovac, Montenegro, Aug. 30 - Sept. 10, 2003
  17. G. Herold, G. Ebner, R. Süßbrich, C. Weindl: Comparison of Different Calculation Methods for a Power Semiconductor based Interphase Power Flow Controller, Proceedings of the IEEE Power Tech '03 Conference (BPT03), Bologna, Italy, June 23-26, 2003
  16. Wu Bin, Weindl Ch., Herold G.: Raumzeiger-Modell von Drehstromnetzen mit Stromzwischenkreis-Umrichtern, Teil II - Berechnung der Umrichter-Netz-Wechselwirkungen und Anwendung des Verfahrens auf ein HGÜ-System, EE-Report 2/2003, University of Erlangen-Nürnberg, 2003
  15. Wu Bin, Weindl Ch., Herold G.: Raumzeiger-Modell von Drehstromnetzen mit Stromzwischenkreis-Umrichtern, Teil I - Theoretische Grundlagen, EE-Report 1/2003, University of Erlangen-Nürnberg, 2003
  14. Weindl Christian: Structural Changes and new Challenges in the Electrical Energy Market, Chairman Course III - Energy Generation and Distribution, DAAD Summer Academy 2002, Petrovac, Montenegro, Aug. 31 - Sept. 10, 2002
  13. Weindl, Ch., Herold, G.: State-Space Calculation of Power Systems including Thyristor Controlled Compensation Devices, Proceedings of the 9th European Conference on Power Electronics and Applications (EPE), Graz, Austria, Aug. 27 – 29, 2001, CD-Volume, 13 pages
  12. Weindl, Ch., Herold, G.: Development of an Analytic State-Space Description of Power Systems including Thyristor Controlled Series Compensation, Proceedings of the 9th International Conference on Harmonics and Quality of Power (0-7803-6499-6/00), Orlando, Florida, USA, 2000, Vol. 1, S. 961-966
  11. Weindl, Christian: Beschreibung und Berechnung von Drehstromsystemen mit leistungselektronischen Anlagen im Zustandsraum, Dissertation an der Technischen Fakultät der Universität Erlangen-Nürnberg, 273 Seiten, 1999
  10. Weindl, C., Herold, G.: Analytic State-Space Description of Networks including Static Var Compensators, Proceedings of the IEEE Power Tech '99 Conference (BPT99-416-42), Budapest, Hungary, Aug. 29 – Sept. 2, 1999

9. Weindl, Christian: Analytische Berechnung stationär betriebener Stromrichter und FACTS-Anlagen unter dem Aspekt der harmonischen Stabilität. Forschungsbericht, Lehrstuhl für Elektrische Energieversorgung der Friedrich-Alexander-Universität. Erlangen, 1998
8. Weindl, C., Herold, G.: State Space Representation of Current Converters in Extensive Three-Phase A.C. Systems, Proceedings of the 8th International Conference on Harmonics and Quality of Power (ICHQP-98-292), Athens, Greece, 1998, Vol. 1, S. 734-739
7. Weindl, Ch., Herold, G.: Analytische Darstellung 12pulsiger Stromrichter im Zustandsraum, Archiv für Elektrotechnik (Electrical Engineering), Heft 81, Springer-Verlag, 1998, S. 203-215
6. Weindl, Ch., Herold, G.: Analytical Calculation of 6-pulse Current Converters in Large Compensated Networks in Steady State, Proceedings of the 7th European Conference on Power Electronics and Applications (EPE), Trondheim, Norway, 1997, Vol. 1, S. 1.378-1.383
5. Weindl, Ch., Herold G.: Berechnung stationär betriebener 6pulsiger Stromrichter im Zustandsraum, Archiv für Elektrotechnik (Electrical Engineering), Heft 80, Springer-Verlag, 1997, S. 51-64
4. Herold G., Weindl Ch., Jäger J.P., v. Grafenstein A., Schmid G., Wehrfritz Ch.: Multi Signalprocessing System for High Speed Monitoring of FACTS-Equipment in Electrical Power Systems, Texas Instruments DSP Solutions Challenge, Texas Instruments Europe University Program, 1996
3. Weindl, C.: Analytic Calculation of 6-pulse Current Converters in Steady-State, European FACTS Network, 1996
2. Weindl, C.: Multi Signalprocessing System for High Speed Monitoring of FACTS-Equipment in Electrical Power Systems, EE-Report 13/96, Erlangen, 1996
1. Weindl Ch., Herold, G.: Calculation of 6-pulse Current Converters in Steady State and Optimized Design of Series Wave Traps. Proceedings of the 7th International Power Electronics & Motion Control Conference (PEMC), Budapest, Hungary, 1996, Vol. 3, S. 510-516