

Prof. Dr.-Ing. Stefan Tenbohlen

List of Publications

1995

S. Tenbohlen

Discharge Development over Insulator Surfaces in SF6 Influenced by a Needle Protrusion.

9th International Symposium on High Voltage Engineering, Graz, No. 2270, 1995

1997

S. Tenbohlen

Particle-Initiated Surface Discharges in SF6 under Fast Oscillating Impulse Voltages.

10th International Symposium on High Voltage Engineering, Montreal, Vol. 2, pp.101-104, 1997

S. Tenbohlen

Der Einfluß dielektrischer Oberflächen auf die Durchschlagsentwicklung einer störstellenbehafteten SF6-Anordnung.

Aachen, Techn. Hochsch., Diss., 1997

1998

U. Sundermann, S. Tenbohlen

Der intelligente Transformator - Zustandserfassung und Diagnose von Leistungstransformatoren.

Elektrizitätswirtschaft Jg. 97 (1998), H. 10, S. 48-56

M. Schäfer, S. Tenbohlen

Erwärmungsmodell für Transformatoren und Berechnung des Wicklungsheipunktes.

Haefely-Symposium 1998, Stuttgart, S.1/12-12/12

U. Sundermann, H. Blaum, S. Tenbohlen

Der intelligente Transformator - Zustandserfassung und Diagnose von Leistungstransformatoren.

KEMA-Kolloquium „Vorteile im Wettbewerb durch effizientes Betriebsmittel-Management“, Fulda, 1998

S. Tenbohlen

Die Entladungsentwicklung an dielektrischen Oberflächen unter SF6 bei Beanspruchung mit schnell schwingender Stospannung.

Elektrie, Berlin 52 (1998) 3-6, S. 118-123

S. Tenbohlen, L. Wendrich, T. Rappenecker

Mit Feldbus- und Prozeleittechnik Transformatoren überwachen.

ETZ Elektrotechnik und Automation, Heft 22, 1998

1999

S. Tenbohlen

Der intelligente Transformator - Zustandserfassung und Diagnose an Leistungstransformatoren.

VDE Vortragsreihe, Bezirksverein Kassel e.V., November 1998

S. Tenbohlen

Sensor zur zeitaufgelösten Messung der im Buchholzrelais gesammelten Gase.

Deutsche Patentschrift DE 198 22 868 C1, 1999

S. Tenbohlen, G. Schröder

Der Einfluß von Oberflächenladungen auf die Entladungsentwicklung an Stützern unter SF6.

ETG-Fachtagung „Einfluß von Grenzflächen auf die Lebensdauer elektrischer Isolierungen“, Bad Nauheim, September 1999

S. Tenbohlen

Monitoring of Power Transformers Through Field Bus and Process Control Engineering.
IEEE PowerTech, Budapest, 1999

S. Tenbohlen, M. Schäfer

Beurteilung der Überlastbarkeit von Transformatoren mit online Monitoringsystemen.

Micafil-Symposium „Werterhaltung von Isolationssystemen in Betriebsmitteln

Transformatoren – Schaltanlagen – Kabel“; Stuttgart, September 1999

S. Tenbohlen, F. Figel

On-Line Condition Monitoring of Power Transformers.

Beijing Electric Power International Conference on Transmission and Distribution '99, Beijing, 1999

2000

S. Tenbohlen, M. Schäfer, H. Matthes

Beurteilung der Überlastbarkeit von Transformatoren mit online Monitoringsystemen.

Elektrizitätswirtschaft, Jg.99 (2000), Heft 1-2

S. Tenbohlen

Ontwikkelingen op het gebied van on-line monitoring.

CENTRAM, Transformatorstag, Arnheim, Niederlande, 2000

S. Tenbohlen, F. Figel

On-Line Condition Monitoring of Power Transformers.

PES Winter Meeting 2000, Singapore, January 23-27, 2000

S. Tenbohlen, G. Schröder

The Influence of Surface Charge on Lightning Impulse Breakdown of Spacers in SF6.

IEEE Transactions on Dielectrics and Electrical Insulation, Vol.7 No.2, April 2000

S. Tenbohlen, T. Stirl

Optimierte Betriebsführung von 123-kV-Leistungstransformatoren.

ETZ Elektrotechnik und Automation, Heft 11-12, 2000

S. Tenbohlen, D. Uhde, J. Poittevin, H. Borsi, P. Werle, U. Sundermann, H. Matthes

Enhanced Diagnosis of Power Transformers using on- and off-line Methods: Results, Examples and Future Trends.

paper 12-204, CIGRE, Paris, 2000

S. Tenbohlen
Monitoring of Power Transformers Through Field Bus and Process Control Engineering.
paper 4.7, 3rd International World Energy System Conference (WESC-2000), Irkutsk,
Russia, September 21-22, 2000

2001

S. Tenbohlen
Offline Zustandsbewertung von Leistungstransformatoren.
Technische Akademie Esslingen, Ostfildern-Nellingen, 2001

S. Tenbohlen
Online-Diagnose von Leistungstransformatoren mit Monitoringsystemen.
Technische Akademie Esslingen, Ostfildern-Nellingen, 2001

S. Tenbohlen, T. Stirl
Assessment of Overload Capacity of Power Transformers by On-line Monitoring Systems.
IEEE Winter Meeting, Columbus/Ohio, 2001

T. Stirl, S. Tenbohlen
The transformer monitoring revolution.
Power Industry Development 2001

S. Tenbohlen
Monitoringsystem erhöht Verfügbarkeit von Transformatoren und senkt Betriebskosten.
Maschinenmarkt, Nr. 14, April, 2001

S. Tenbohlen
Cost Reduction by Tailor-Made Refurbishment.
CIGRE, Colloquium SC12, Dublin, 2001

S. Tenbohlen, F. Figel
Service optimisation and early fault recognition in power transformers.
Electricity + Control, June, 2001

S. Tenbohlen, F. Figel
On-Line Condition Monitoring of Power Transformers: Practical Experience.
Electricity + Control, August, 2001

T. Garnett, T. Stirl, S. Tenbohlen
On-line Monitoring of Power Transformers Through Field Bus and Process Control Engineering.
Proceedings of EuroTechCon 2001, TJ/H2b, Birmingham, UK, 2001

J. Baum, K. Doernemann, T. Stirl, S. Tenbohlen
On-line Monitoring of Power Transformers Through Field Bus and Process Control Engineering.
International Conference on Power Transformers, Bydgoszcz, Poland, 2001

S. Tenbohlen
Aktuelle Tendenzen bei der Vor-Ort Diagnose von Leistungstransformatoren.
Jubiläumsausgabe Elektrizitätswirtschaft, Jg.100 (2001), Heft 21-22, S. 120-124

S. Tenbohlen, P. Mayer
On-line Monitoring of Power Transformers Through Field Bus and Process Control Engineering, II Workspot.
CIGRE, Salvador, Brasil, 2001

2002

G. Pudlo, S. Tenbohlen, G. Krost, M. Linders
Berechnung der Überlastbarkeit von Transformatoren in Energieversorgungsnetzen mit Monitoringsystemen.

ETG Fachbericht 87 „Diagnostik elektrischer Betriebsmittel“, Berlin, 2002

S. Tenbohlen, T. Stirl
Technische Möglichkeiten von online Monitoringsystemen für Leistungstransformatoren.
Micafil Symposium, Stuttgart, 2002

S. Tenbohlen, P. Glaninger
Verfahren zur Ermittlung von Temperaturen in einem elektrischen Transformator.
Patentoffenlegungsschrift DE 100 65 800 A1, 2002

S. Tenbohlen, T. Stirl, G. Bastos, J. Baldauf, P. Mayer, M. Stach, B. Breitenbauch, R. Huber
Experience-based Evaluation of Economic Benefits of On-line Monitoring Systems for Power Transformers.
paper 12-110, CIGRE, Paris, 2002

G. Pudlo, S. Tenbohlen, G. Krost, M. Linders
Integration of Power Transformer Monitoring and Overload Calculation into the Power System Control Surface.
IEEE/PES Transmission and Distribution Conference 2002, Yokohama, 2002

S. Tenbohlen
Diagnose und Zustandsüberwachung von Leistungstransformatoren; Möglichkeiten und Wirtschaftlichkeit von on-line Monitoringsystemen.
Fachveranstaltung: Zustandsbeurteilung von Energieübertragungssystemen, Haus der Technik, Essen, 2002

S. Tenbohlen, V. Moorkath, I. Illath
On-line Monitoring of Power Transformers, National Seminar „Large Power Transformers - Modern Trends in Application, Testing and Condition Monitoring“.
New Delhi, India, 14-15 November, 2002

S. Tenbohlen
Technische Möglichkeiten und praktische Betriebserfahrung mit on-line Monitoringsystemen für Leistungstransformatoren.
Symposium „Geriatric des Transformators“, Regensburg, November 2002

S. Tenbohlen
Schadenfrüherkennung bei Großtransformatoren.
AZT-Expertentage 2002 „Elektrische und elektronische Anlagen“, Allianz Zentrum für Technik, Ismaning, November 2002

2003

S. Tenbohlen, F. Hofmann, J. Baum
Wartungsfreiheit und Alterungsstopp durch Hermetikabschluss bei Leistungstransformatoren.
Elektrizitätswirtschaft, Jg.102 (2003), Heft 5

S. Ryder, S. Tenbohlen
A Comparison of the Swept Frequency and Impulse Response Methods for Making Frequency Response Analysis Measurements.
Doble Conference, Boston, April 2003

S. Tenbohlen, S. Ryder
Making Frequency Response Analysis Measurements: A Comparison of the Swept Frequency and Low Voltage Impulse Methods.
13th International Symposium on High Voltage Engineering, Delft, 2003

T. Jung, L. Chailleux, S. Tenbohlen, J. Altwegg, P. Roussel, C. Harfouch
Implementation of new monitoring tools and optimisation of maintenance through the use of Web-based technology.
XVII SNPTEE, Brazil, 2003

S. Tenbohlen, T. Stirl, M. Rösner
Benefit of sensors for on-line monitoring systems for power transformers.
Matpost03, Lyon, France, 2003

A. Kachler, S. Tenbohlen, M. Stach, T. Leibfried, I. Höhlelein-Atanosova
Transformer Life Management German Experience with Condition Assessment.
Cigre A2 Colloquium, Merida, Mexico, 2003

2004

S. Tenbohlen
Leistungstransformatoren – Neue Trends bei Design, Produktion und Betriebsüberwachung.
Micafil Symposium, Stuttgart, 2004

S. Tenbohlen
Leistungstransformatoren, Seminar Hoch- und Mittelspannungsschaltgeräte und – anlagen.
Aachen, 2004

S. Tenbohlen, M. Stach, T. Lainck, G.W.H. Gunkel, J. Altmann, G. Daemisch, E. Bräsel
New Concepts for Prevention of Ageing by means of On-line Degassing and Drying and Hermetically Sealing of Power Transformers.
CIGRE, Paris, 2004, paper A2-204

S. Tenbohlen, M. Rösner
Online-Feuchtigkeitsüberwachung der festen Isolierstoffe in Leistungstransformatoren.
ETG-Fachtagung, Köln, 2004, ETG Fachbericht 97, S. 315 – 319

A. Kachler, S. Tenbohlen, M. Stach, T. Leibfried, I. Höhlelein-Atanosova
Transformer Life Management German Experience with Condition Assessment.
ETG-Fachtagung, Köln, 2004, ETG Fachbericht 97, S. 327 – 342

T. Jung, L. Chailleux, S. Tenbohlen, J. Altwegg, P. Roussel, C. Harfouch
Implementation of new monitoring tools and optimisation of maintenance through the use of Web-based technology.
IEEE/PES T&D 2004 Latin America, Sao Paulo, Brazil, 2004, paper 416

S. Tenbohlen, F. Hofmann
Wartungsarmut und reduzierte Alterung von Leistungstransformatoren durch Hermetikabschluß.
Regensburger Transformator Kolloquium, Regensburg, November 2004, Tagungs-CD

M. Koch , S. Tenbohlen
Einflussgrößen und Zuverlässigkeit bei dielektrischen Diagnosemethoden zur Bestimmung des Feuchtegehalts.
Regensburgener Transformator-Kolloquium, Regensburg, November 2004, Tagungs-CD

2005

S. Markalous, R. Huber, S. Tenbohlen
Onsite-Teilentladungsmessung an Leistungstransformatoren.
etz, Heft 1/2005

M. Koch, S. Tenbohlen
Dielektrische Diagnosemethoden im Vergleich.
"ew" Magazin für Energie und Wirtschaft, Heft 3, 24. Januar 2005, S. 42 - 45, VWEW
Energieverlag GmbH, Frankfurt a.M.

D. Denissov, H. Rebholz, W. Köhler, S. Tenbohlen
Dielectric Strength of Different Gases in GIS.
14th International Symposium on High Voltage Engineering, Beijing, China, August 25-29, 2005, Proceedings of the ISH, paper No. H-02

S.M. Hoek, U. Riechert, T. Strehl, S. Tenbohlen, K. Feser
A New Procedure for Partial Discharge Localization in Gas-Insulated Switchgear in Frequency Domain.
14th International Symposium on High Voltage Engineering, Beijing, China, August 25-29, 2005, Proceedings of the ISH, paper No. G-005

M. Koch, S. Tenbohlen
Diagnostics of Oil-Paper-Insulations Using Relaxation Currents.
14th International Symposium on High Voltage Engineering, Beijing, China, August 25-29, 2005, Proceedings of the ISH, paper No. H-45

S. Markalous, S. Tenbohlen, K. Feser
New robust non-iterative algorithms for acoustic PD-localization in oil/paper-insulated transformers.
14th International Symposium on High Voltage Engineering, Beijing, China, August 25-29, 2005, Proceedings of the ISH, paper No. G-039

S. Markalous, S. Tenbohlen, K. Feser
Improvement of acoustic detection and localization accuracy by sensitive electromagnetic PD measurements under oil in the UHF range.
14th International Symposium on High Voltage Engineering, Beijing, China, August 25-29, 2005, Proceedings of the ISH, paper No. G-040

R. Vilaithong, T. Stirl, S. Tenbohlen
Improved Top Oil Temperature model for Unsteady-State Conditions of Power Transformers.
14th International Symposium on High Voltage Engineering, Beijing, China, August 25-29, 2005, Proceedings of the ISH

J. Osztermayer, K. Feser, S. Tenbohlen
Real-time Condition Assessment of Power System Assets as a Vital Information Backbone for a Comprehensive Online Asset-Management.
14th International Symposium on High Voltage Engineering, Beijing, China, August 25-29, 2005, Proceedings of the ISH, paper No. G-122

M. Koch, S. Tenbohlen
Ölleitfähigkeit und Grenzflächenpolarisation am Öl-Papier-Dielektrikum, VDE-Fachtagung - Grenzflächen in elektrischen Isoliersystemen.
ETG-Fachbericht 99, S. 171 – 176, Hanau, 2005

S. Markalous, S. Tenbohlen
Diagnose und Ortung von Teilentladungen in Leistungstransformatoren auf der Basis akustischer und elektromagnetischer UHF-Signale.
ETG-Fachtagung, Hanau, 2005, ETG-Fachbericht 99, S. 229 – 234

M. Zerrer, M. Aidam, K. Feser, W. Köhler, S. Tenbohlen
Korrelation verschiedener Messmethoden mit Hilfe der Statistik.
GMM-Fachtagung, Ingolstadt, 26.-27. Oktober 2005

2006

M. Zerrer, W. Köhler, M. Aidam, S. Tenbohlen, K. Feser
Vergleichbarkeit verschiedener Emissionsmessverfahren in der Automobil-EMV.
Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Düsseldorf, 7. - 9. März 2006, S. 455-461

M. Koch, S. Tenbohlen
Wasser in Leistungstransformatoren – Richtig messen und den Zustand beurteilen.
Stuttgarter Hochspannungssymposium 2006 „Zustandserfassung und –beurteilung von Betriebsmitteln des elektrischen Netzes“, 15. - 16. März 2006, Stuttgart, S. 199-217

M. Zerrer, K. Feser, W. Köhler, S. Tenbohlen
Vergleichbarkeit verschiedener Emissionsmessverfahren in der Automobil-EMV.
HF-Report EMV-Magazin, Februar/März 2006 / 20. Jahrgang, S. 34-37

M. Koch, S. Tenbohlen, T. Stirl
Advanced Online Moisture Measurements in Power Transformers.
CMD 2006 International Conference on Condition Monitoring and Diagnosis, Changwon, Korea, April 2-5, 2006

R. Vilaithong, S. Tenbohlen, T. Stirl
Investigation of Different Top-oil Temperature Models for On-line Monitoring System of Power Transformer.
CMD 2006 International Conference on Condition Monitoring and Diagnosis, Changwon, Korea, April 2-5, 2006, Paper No. 661

S.M. Gubanski, J. Blennow, L. Karlsson, K. Feser, S. Tenbohlen, C. Neumann, H. Moscicka-Grzesiak, A. Filipowski, L. Tatarski
Reliable Diagnostics of HV Transformer Insulation for Safety Assurance of Power Transmission System - REDIATool - a European Research Project.
CIGRE Session 2006, Paper D1-207, Paris, Frankreich

S. Tenbohlen, S. Hoek, D. Denissov, R. Huber, U. Riechert, S. Markalous, T. Strehl, T. Klein
Electromagnetic (UHF) PD Diagnosis of GIS, Cable Accessories and Oil-paper Insulated Power Transformers for Improved PD Detection and Localization.
CIGRE Session 2006, Paris, Frankreich, Paper No. D1-104

S. Coenen, S. Tenbohlen, S. Markalous
Elektromagnetische Teilentladungsmessung bei Leistungstransformatoren.
ETG-Fachtagung „Diagnostik elektrischer Betriebsmittel“, 19.-20. September 2006, Kassel, S. 351-356

D. Denissov, W. Köhler, S. Tenbohlen, T. Klein
Praktische Probleme beim Einsatz der UHF-TE-Diagnostik an Hochspannungskabelsteckern im Betrieb.
ETG-Fachtagung „Diagnostik elektrischer Betriebsmittel“, 19.-20. September 2006, Kassel, S. 303-308

M. Fischer, J. Aragon-Patil, S. Tenbohlen
Interpretation der Gas-in-Öl-Analysen von Leistungstransformatoren durch Einsatz von Fuzzy Logik mit dem Ziel einer präziseren IT-gestützten Zustandserfassung.
ETG-Fachtagung „Diagnostik elektrischer Betriebsmittel“, 19.-20. September 2006, Kassel, S. 415-420

S.M. Hoek, U. Riechert, T. Strehl, S. Tenbohlen, K. Feser
Teilentladungsortung in GIS im Frequenzbereich.
ETG-Fachtagung „Diagnostik elektrischer Betriebsmittel“, 19.-20. September 2006, Kassel, S. 171-176

M. Koch, S. Tenbohlen
Ein neues Verfahren zur Online-Feuchtemessung in Leistungstransformatoren.
ETG-Fachtagung „Diagnostik elektrischer Betriebsmittel“, 19.-20. September 2006, Kassel, S. 143-148

M. Koch, S. Tenbohlen
Der Bubble-Effekt und das Risiko eines dielektrischen Fehlers in Leistungstransformatoren.
ETG-Fachtagung „Diagnostik elektrischer Betriebsmittel“, 19.-20. September 2006, Kassel, S. 377-382

S. Markalous, R. Zieschan, T. Strehl, S. Tenbohlen
Neue Ansätze zur laufzeit-basierten Ortung von Teilentladungen in Transformatoren.
ETG-Fachtagung „Diagnostik elektrischer Betriebsmittel“, 19.-20. September 2006, Kassel, S. 125-129

R. Vilaithong, S. Tenbohlen, T. Stirl
Modelle zur Online-Berechnung der Deckelöltemperatur von Leistungstransformatoren.
ETG-Fachtagung „Diagnostik elektrischer Betriebsmittel“, 19.-20. September 2006, Kassel, S. 439-443

R. Wimmer, S. Tenbohlen, K. Feser, M. Krüger
Richtlinien für den Messaufbau für eine hohe Reproduzierbarkeit der FRA-Messergebnisse.
ETG-Fachtagung „Diagnostik elektrischer Betriebsmittel“, 19.-20. September 2006, Kassel, S. 361-366

2007

J. Aragón-Patil, M. Fischer, S. Tenbohlen
Improvement of Dissolved Gas Analysis (DGA) by Means of Experimental Investigations of Generated Fault Gases and a Fuzzy Logic Based Interpretation Scheme.
15th International Symposium on High Voltage Engineering, Ljubljana, Slovenia, August 27-31, 2007, Proceedings of the ISH, paper No. T7-157

J. Aragón-Patil, M. Fischer, S. Tenbohlen
Improvement of interpretation of dissolved gas analysis for power transformers
Third International Conference on Advances in Processing, Testing and Application of Dielectrics Materials.
(APTDAM 2007) Wrocław, Poland, September 26-28, 2007, page No. 91-97

J. Aragón-Patil, S. Tenbohlen, E. Bräsel, U. Sasum
Improved Monitoring of Dissolved Transformer Gases on the Basis of a Natural Internal Standard (NIS).

Cigré SC A2 & D1-Colloquium, Brugge, Belgium, October 7-12, paper No. PS1-10

S. Coenen, S. Tenbohlen, S.M. Markalous, T. Strehl
Performance Check and Sensitivity Verification for UHF PD measurements on power transformers.

15th International Symposium on High Voltage Engineering, Ljubljana, Slovenia, August 27-31, 2007, Proceedings of the ISH, paper No. T7-100

D. Denissov, R. Grund, T. Klein, W. Köhler, S. Tenbohlen
UHF Partial Discharge Diagnosis of Plug-in Cable Terminations.

7th International Conference on Insulated Power Cables, Jicable'07, June 24-28, 2007, Paris, France, paper No. 0133

D. Denissov, W. Köhler, S.M. Hoek, S. Tenbohlen, T. Klein
On-Line Partial Discharge Diagnostics for Cable Termination.

15th International Symposium on High Voltage Engineering, Ljubljana, Slovenia, August 27-31, 2007, Proceedings of the ISH, paper No. T7-70

S.M. Hoek, U. Riechert, T. Strehl, K. Feser, S. Tenbohlen
New Procedures for Partial Discharge Localization in Gas-Insulated Switchgears in Frequency and Time Domain.

15th International Symposium on High Voltage Engineering, Ljubljana, Slovenia, August 27-31, 2007, Proceedings of the ISH, paper No. T7-547

M. Koch, S. Tenbohlen, D. Giselsbrecht, C. Homagk, T. Leibfried
Onsite, Online and Post Mortem Insulation Diagnostics at Power Transformers.

Cigré SC A2 & D1 Colloquium, Brugge, Belgium 2007

M. Koch, S. Tenbohlen, M. Krüger, A. Kraetge
Improved Moisture Analysis of Power Transformers Using Dielectric Response Methods.

MATPOST'07, 3rd European Conference on HV & MV Substation Equipment, Lyon, France, 2007

M. Koch, S. Tenbohlen, M. Fischer
The Breakdown Voltage of Insulation Oil under the Influence of Humidity, Acidity, Particles and Pressure.

International Conference on Advances in Processing, Testing and Application of Dielectric Materials APTADM, Wroclaw, 2007

M. Koch, S. Tenbohlen
Systematic Investigations on the Evolution of Water Vapour Bubbles in Oil-Paper-Insulations.

15th International Symposium on High Voltage Engineering, Ljubljana, Slovenia, August 27-31, 2007, Proceedings of the ISH, paper No. T9-167

M. Koch, S. Tenbohlen, J. Blenno, I. Hoehlein
Reliability and Improvements of Water Titration by the Karl Fischer Technique.

15th International Symposium on High Voltage Engineering, Ljubljana, Slovenia, August 27-31, 2007, Proceedings of the ISH, paper No. T10-53

M. Koch, S. Tenbohlen, M. Krüger, A. Kraetge
A Comparative Test and Consequent Improvements on Dielectric Response Methods.

15th International Symposium on High Voltage Engineering, Ljubljana, Slovenia, August 27-31, 2007, Proceedings of the ISH, paper No. T8-168

E. Rahimpour, S. Tenbohlen
A Mathematical Model to Investigate Disc Space Variation in Power Transformer using Transfer Function Analysis.
15th International Symposium on High Voltage Engineering, Ljubljana, Slovenia, August 27-31, 2007, Proceedings of the ISH, paper No. T7-146

R. Wimmer, S. Tenbohlen, K. Feser, A. Kraetge, M. Krüger, J. Christian
The Influence of Connection and Grounding Technique on the Repeatability of FRA-Results.
15th International Symposium on High Voltage Engineering, Ljubljana, Slovenia, August 27-31, 2007, Proceedings of the ISH, paper No. T7-522

R. Wimmer, S. Tenbohlen, M. Heindl, A. Kraetge, M. Krüger, J. Christian
Development of an Algorithm to Assess the FRA.
15th International Symposium on High Voltage Engineering, Ljubljana, Slovenia, August 27-31, 2007, Proceedings of the ISH, paper No. T7-523

R. Wimmer, S. Tenbohlen, K. Feser
Online Monitoring of a transformer by means of FRA.
15th International Symposium on High Voltage Engineering, Ljubljana, Slovenia, August 27-31, 2007, Proceedings of the ISH, paper No. T7-524

R. Wimmer, S. Tenbohlen, K. Feser, A. Kraetge, M. Krüger, J. Christian
A new Approach of FRA Assessment with Algorithms.
Cigré SC A2 & D1 – Colloquium, Bruges, Belgium, October 7-12, paper No. PS2-16

R. Vilaithong, S. Tenbohlen, T. Stirl
Neural Network for Transformer Top-Oil Prediction.
15th International Symposium on High Voltage Engineering, Ljubljana, Slovenia, August 27-31, 2007, Proceedings of the ISH, paper No. T5-69

R. Vilaithong, S. Tenbohlen, T. Stirl
Online Tap Changer Diagnosis Based on Acoustic Technique.
3rd European Conference on HV & MV Substation Equipment (MATPOST'07), Lyon, France, November 15-16, 2007, Proceedings of the MATPOST

M. Zerrer, M. Aidam, W. Köhler, S. Tenbohlen, K. Feser
Estimation of Electromagnetic Coupling Phenomena in a Vehicle Wiring Harness Using Characteristic Transfer Functions.
18th International Symposium on Electromagnetic Compatibility, München, 24. bis 28. September 2007, Paper-No. 45

M. Zerrer, M. Aidam, W. Köhler, S. Tenbohlen, K. Feser
A Statistical Method to Improve Correlation of Automotive EMC-Measurements.
18th International Symposium on Electromagnetic Compatibility, München, 24. bis 28. September 2007, Paper-No. IF-3/4

2008

H.M. Rebholz, S. Tenbohlen
Simulationsmodelle zur Bestimmung der Funkstörfeldstärke beliebiger Leiteranordnungen für den Komponentenaufbau nach CISPR25.
EMV 2008, Düsseldorf, 19.-21. Febr. 2008, Konferenzband S. 195

M. Zerrer, W. Köhler, S. Tenbohlen, K. Feser, M. Aidam
Einsatz von Transferfunktionen zur Klassifizierung von Einbauorten elektronischer Steuergeräte im Kraftfahrzeug.
EMV 2008, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Düsseldorf, 19.-21. Februar 2008, Band zum Kongress, Seite 439

G. Voigt, S. Tenbohlen
Tan Delta Messungen und Teilentladungsdiagnose bei VLF Prüfspannungen.
Stuttgarter Hochspannungssymposium 2008, 05.-06. März 2008, Stuttgart

S. Coenen, S. Tenbohlen, S.M. Markalous, T. Strehl
Sensitivity of UHF PD measurements.
Stuttgarter Hochspannungssymposium 2008, 05.-06. März 2008, Stuttgart

M. Koch, M. Krüger, S. Tenbohlen
Moderne Verfahren zur Wasserbestimmung in Leistungstransformatoren.
Stuttgarter Hochspannungssymposium 2008, 05.-06. März 2008, Stuttgart

R. Seibold, S. Tenbohlen
Wasseraufnahmevermögen und Alterungsverhalten von Pflanzenölen für Leistungstransformatoren.
Stuttgarter Hochspannungssymposium 2008, 05.-06. März 2008, Stuttgart

R. Grund, D. Denissov, T. Klein, L. Zühlke, W. Köhler, S. Tenbohlen
Anwendung der UHF-TE-Messtechnik an Hochspannungskabelgarnituren.
Stuttgarter Hochspannungssymposium 2008, 05.-06. März 2008, Stuttgart, pp. 191-200

P. Jarman, B.-O. Stenestam, I. Hunter, A. Garnitschnig, E. Mortensen, K. Viereck, R. Kuppuswamy, S. Tenbohlen, S. Meijer, A. Wilson, M. Chauke, M. Judd, J. Vancotthem, D. Woodcock, C.J. Dupont, J. Harley, N. Fantana, J. Aubin, V. Sokolov, S. Mehta, B. Ward
Recommendations for Condition Monitoring and Condition Assessment Facilities for Transformers.
Report WG A2.27 (CIGRE), Electra, No. 237, April 2008, pp. 48-57

P. Picher, J. Lapworth, T. Noonan, J. Christian, M. Alpatov, D. Bormann, R. Breytenbach, P. Dick, A. Drobyshevski, I. Dumbrava, R. Fisher, H.K. Hoidalén, P. Jarman, I. Kispal, A. Kraetge, T. Leibfried, R. Malewski, R. Ocon, E. Perez, J. Rickmann, Y. Shirasaka, S. Tenbohlen, M. Tiberg, Z. Wang, P. Werelius, R. Zaleski
Mechanical Condition Assessment of Transformer Windings using Frequency Response Analysis (FRA).
Report WG A2.26 (CIGRE), Electra, No. 237, April 2008, pp. 34-46

P. Jarman, B.-O. Stenestam, I. Hunter, A. Garnitschnig, E. Mortensen, K. Viereck, R. Kuppuswamy, S. Tenbohlen, S. Meijer, A. Wilson, M. Chauke, M. Judd, J. Vancotthem, D. Woodcock, C.J. Dupont, J. Harley, N. Fantana, J. Aubin, V. Sokolov, S. Mehta, B. Ward
Recommendations for Condition Monitoring and Condition Assessment Facilities for Transformers.
Brochure 343, WG A2.27 (CIGRE), April 2008

P. Picher, J. Lapworth, T. Noonan, J. Christian, M. Alpatov, D. Bormann, R. Breytenbach, P. Dick, A. Drobyshevski, I. Dumbrava, R. Fisher, H.K. Hoidalén, P. Jarman, I. Kispal, A. Kraetge, T. Leibfried, R. Malewski, R. Ocon, E. Perez, J. Rickmann, Y. Shirasaka, S. Tenbohlen, M. Tiberg, Z. Wang, P. Werelius, R. Zaleski
Mechanical Condition Assessment of Transformer Windings using Frequency Response Analysis (FRA).
Brochure 342, WG A2.26 (CIGRE), April 2008

- S. Coenen, S. Tenbohlen, S.M. Markalous, T. Strehl
Attenuation of UHF signals regarding the Sensitivity Verification for UHF PD Measurements on Power Transformers.
 IEEE Conference on Condition Monitoring and Diagnosis (CMD), Peking, China, April 21-24, 2008, paper No. K1-4
- S.M. Hoek, S. Coenen, M. Bornowski and S. Tenbohlen
Fundamental Differences of the PD Measurement according to IEC 60270 and in UHF range.
 IEEE Conference on Condition Monitoring and Diagnosis (CMD), Peking, China, April 21-24, 2008, paper No. A2-1
- M.D. Judd, S. Meijer and S. Tenbohlen
Sensitivity check for RF PD detection for power transformers.
 IEEE Conference on Condition Monitoring and Diagnosis (CMD), Peking, China, April 21-24, 2008, paper No. K1-03
- D. Denissov, W. Köhler, S. Tenbohlen, R. Grund, T. Klein
Wide and narrow band PD detection in plug-in cable connectors in the UHF range.
 International Conference on Condition Monitoring and Diagnosis, CMD 2008, Peking, China, April 21-24, 2008, K1-09
- M. Koch, M. Krüger, S. Tenbohlen
Onsite-Diagnostik zur Feuchtebestimmung in Transformatoren.
 Bulletin SEV/AES 13/2008
- D. Denissov, W. Köhler, S. Tenbohlen, R. Grund, T. Klein
Simulation of UHF PD wave propagation in plug-in cable terminations.
 2008 IEEE International Symposium on Electrical Insulation, ISEI 2008, Vancouver, Canada, June 8–11, 2008, pp. 547-550
- V. Sokolov, J. Aubin, V. Davydov, H.-P. Gasser, P. Griffin, M. Koch, L. Lundgaard, O. Roizman, M. Scala, S. Tenbohlen, B. Vanin
Moisture Equilibrium and Moisture Migration within Transformer Insulation Systems.
 Report WG A2.30 (CIGRE), Electra, No. 238, June 2008, pp. 24-33
- V. Sokolov, J. Aubin, V. Davydov, H.-P. Gasser, P. Griffin, M. Koch, L. Lundgaard, O. Roizman, M. Scala, S. Tenbohlen, B. Vanin
Moisture Equilibrium and Moisture Migration within Transformer Insulation Systems.
 Brochure 349, WG A2.30 (CIGRE), June 2008
- P. Karimifard, G.B. Gharehpetian und S. Tenbohlen
Determination of axial displacement extent based on transformer winding transfer function estimation using vector-fitting method.
 European Transactions on Electrical Power, 2008, Vol. 18, pp. 423–436
- A. Pfeffer, T. Steiner, S. Tenbohlen
Neuerungen bei der Auswertung von Blitzstoßspannungsverläufen bei der Transformatorprüfung.
 ETZ, Heft 8/2008, S. 50-53
- H.M. Rebholz, S. Tenbohlen
A Fast Radiated Emission Model for Arbitrary Cable Harness Configurations Based on Measurements and Simulations.
 EMC 2008, Detroit, USA, International Symposium on Electromagnetic Compatibility, August 18-22, 2008, pp. 1-5

- H.M. Rebholz, S. Tenbohlen
Prospects and Limits of Common- and Differential-Mode Separation for the Filter Development Process.
 EMC Europe 2008, Hamburg, 08.-12. September 2008, Proceedings - Part II, paper No. 130, pp. 419-424
- F. Streibl, S. Tenbohlen, J. Hartmann, M. Zerrer
Derating of Ceramic Capacitors during Electrostatic Discharges.
 EMC Europe 2008, Hamburg, 08.-12. September 2008, Proceedings - Part II, paper No. 299, pp. 187-190
- H.M. Rebholz, S. Tenbohlen
Efficient Characterization of RF Sources for the Design of Noise Suppression Filters.
 ISAPE 2008, International Symposium on Antennas, Propagation and EM Theory, Kunming, China, 02.-06. Nov. 2008, paper No. 072
- S. Tenbohlen, M. Koch, D. Vukovic, A. Weinläder, J. Baum, J. Harthun, M. Schäfer, S. Barker, R. Frotscher, D. Dohnal, P. Dyer
Application of vegetable oil-based insulating fluids to hermetically sealed power transformers.
 CIGRE Session 2008, Paris, France, August 24-29, 2008, paper No. A2-102
- T. Klein, D. Denissov, W. Köhler, S. Tenbohlen
Application of UHF method for on-line PD diagnostics of cable terminations.
 CIGRE Session 2008, Paris, France, paper No. B1-203
- J. Aragón-Patil, M. Fischer, S. Tenbohlen, Z.D. Wang, M. Schäfer, J. Atanasova-Höhlein
Investigation on Sampling, Measurement and Interpretation of Gas-in-Oil Analysis for Power Transformers.
 CIGRE Session 2008, Paris, France, August 25-29, 2008, paper No. D1-204
- S. Tenbohlen, A. Weinläder
Modellierung der Ölströmung und Temperaturverteilung in Leistungstransformatoren.
 Transformer Life Management Tagung, Hannover 2008
- A. Weinläder, S. Tenbohlen
Thermohydraulische Untersuchung von Transformatorwicklungen durch Messung und Simulation.
 ETG-Fachtagung: Grenzflächen in elektrischen Isoliersystemen, Würzburg 2008
- M. Koch, S. Tenbohlen
Der Einfluss von Alterung und Materialeigenschaften auf dielektrische Messungen an Öl-Papier-Isolierungen.
 ETG-Fachtagung: Grenzflächen in elektrischen Isoliersystemen, Würzburg 2008
- S. Tenbohlen, M. Koch, R. Seibold
Das Alterungsverhalten verschiedener Esterflüssigkeiten für Leistungstransformatoren.
 ETG-Fachtagung: Grenzflächen in elektrischen Isoliersystemen, Würzburg 2008
- M. Zerrer, M. Aidam, W. Köhler, S. Tenbohlen
The Benefit of Characteristic Transfer Functions in Automotive EMC.
 ISAPE 2008, International Symposium on Antennas, Propagation and EM Theory, Kunming, China, 02.-06. November 2008, paper No. 089
- S. Tenbohlen, S. Hoek, D. Denissov, S.M. Markalous
Partial Discharge Measurement in the Ultra High Frequency (UHF) Range.
 IEEE Tr. on Dielectrics and Electrical Insulation, Vol. 15, No. 6/2008, pp. 1544-1552

S. Coenen, S. Tenbohlen, S.M. Markalous, T. Strehl
Sensitivity of UHF PD Measurements in Power Transformers.
IEEE Tr. on Dielectrics and Electrical Insulation, Vol. 15, No. 6/2008, pp. 1553-1558

S.M. Markalous, S. Tenbohlen, K. Feser
Detection and Location of Partial Discharges in Power Transformers using acoustic and electromagnetic signals.
IEEE Tr. on Dielectrics and Electrical Insulation, Vol. 15, No. 6/2008, pp. 1576-1583

2009

H. Rebholz, S. Tenbohlen, W. Köhler
Influence of Automotive Harnesses on Conducted Emissions.
20th International Zurich Symposium on Electromagnetic Compatibility, Zurich, Switzerland, January 12-16, 2009, Proceedings, page 237-240

F. Streibl, S. Tenbohlen, J. Hartmann, E. Dudenhoeffer
Setup for Measuring the Derating of SMD Components under ESD Stress.
20th International Zurich Symposium on Electromagnetic Compatibility, Zurich, Switzerland, January 12-16, 2009, Proceedings, page 145-147

D. Denissov, W. Köhler, S. Tenbohlen, R. Grund, T. Klein
On-Site Condition Assessment of HV Cable Terminations in Service.
20th International Conference on Electricity Distribution (CIRED), Prague, 8.-11. June 2009, Paper No. 0894

B. Wille-Hausmann, C. Wittwer, S. Tenbohlen
Reduced Models for Operation Management of Distributed Generation.
20th International Conference on Electricity Distribution (CIRED), Prague, 8.-11. June 2009, Paper No. 0779

M. Heindl, S. Tenbohlen, A. Kraetge, M. Krüger, J.L. Velásquez
Determining of Pole-Zero Representations of FRA Measurement Data for Interpretation of Power Transformer Transfer Function Deviations.
Cigré 6th Southern Africa Regional Conference & Joint A2, A3, B3 Study Committee Colloquium, Somerset West, South Africa, August 17-21, 2009, Proceedings of the Cigré 2009, 6th Southern Africa Regional Conference, paper No. P505

J. Jagers, S. Tenbohlen
Differences Approaches for the Acquisition of Reliability Statistics.
Cigré 6th Southern Africa Regional Conference & Joint Study Committee A2, A3, B3 Colloquium, Somerset West, South Africa, August 17-21, 2009, Proceedings of the Cigré 2009, 6th Southern Africa Regional Conference, paper No. C104

M. Koch, M. Krüger, S. Tenbohlen
Comparing Various Moisture Determination Methods for Power Transformers.
Cigré 6th Southern Africa Regional Conference & Joint Study Committee A2, A3, B3 Colloquium, Somerset West, South Africa, August 17-21, 2009, Proceedings of the Cigré 2009, 6th Southern Africa Regional Conference, paper No. P509

S. Coenen, S. Tenbohlen, S. Markalous, T. Strehl
Fundamental Characteristics of UHF PD Probes and the Radiation Behavior of PD Sources in Power Transformers.
16th International Symposium on High Voltage Engineering, Cape Town, South Africa, August 24-28, 2009, Proceedings of the ISH, paper No. C-26, page 666-671

- S. Coenen, S. Tenbohlen, S. Markalous, T. Strehl
Sensitivity Limits of UHF PD Measurements on Power Transformers.
16th International Symposium on High Voltage Engineering, Cape Town, South Africa,
August 24-28, 2009, Proceedings of the ISH, paper No. D-36, page 1034-1039
- M. Fischer, S. Tenbohlen
Improved Condition Assessment by Fuzzy-Modelling, Adjustment and Merging of DGA's Interpretation Methods.
16th International Symposium on High Voltage Engineering, Cape Town, South Africa,
August 24-28, 2009, Proceedings of the ISH, paper No. F-16, page 1556-1561
- M. Heindl, S. Tenbohlen, A. Kraetge, M. Krüger, J.L. Velásquez
Algorithmic Determination of Pole-Zero Representations of Power Transformers' Transfer Functions for Interpretation of FRA Data.
16th International Symposium on High Voltage Engineering, Cape Town, South Africa,
August 24-28, 2009, Proceedings of the ISH, paper No. D-26, page 980-985
- J. Jagers, S. Tenbohlen
Evaluation of Transformer Reliability Data Based on National and Utility Statistics.
16th International Symposium on High Voltage Engineering, Cape Town, South Africa,
August 24-28, 2009, Proceedings of the ISH, paper No. F-3, page 1488-1493
- M. Jovalekic, S. Tenbohlen
The influence of carboxylic acids on the dielectric performance of oil-paper insulations.
16th International Symposium on High Voltage Engineering, Cape Town, South Africa,
August 24-28, 2009, Proceedings of the ISH, paper No. D-43, page 1071-1075
- A. Kraetge, M. Krüger, J.L. Velásquez, M. Heindl, S. Tenbohlen
Experiences with the practical application of sweep frequency response analysis (SFRA) on power transformers.
16th International Symposium on High Voltage Engineering, Cape Town, South Africa,
August 24-28, 2009, Proceedings of the ISH,
paper No. D-45, page 1081-1086
- A. Pfeffer, S. Tenbohlen
Analysis of full and chopped Lightning Impulse Voltages from Transformer Tests using the new k-Factor Approach.
16th International Symposium on High Voltage Engineering, Cape Town, South Africa,
August 24-28, 2009, Proceedings of the ISH, paper No. A-10, page 61-66
- A. Pfeffer, S. Coenen, S. Tenbohlen, S. Markalous, T. Strehl
Onsite experiences with multi-terminal IEC PD measurements and UHF PD measurements.
16th International Symposium on High Voltage Engineering, Cape Town, South Africa,
August 24-28, 2009, Proceedings of the ISH, paper No. C-51, page 791-796
- D. Vukovic, S. Tenbohlen
Comparative evaluation of breakdown strength of natural esters and mineral oil.
16th International Symposium on High Voltage Engineering, Cape Town, South Africa,
August 24-28, 2009, Proceedings of the ISH, paper No. C-14, page 603-608
- M. Jovalekic, D. Vukovic, S. Tenbohlen
Dissolved gas analysis of natural ester fluids under electrical and thermal stress.
16th International Symposium on High Voltage Engineering, Cape Town, South Africa,
August 24-28, 2009, Proceedings of the ISH, paper No. C-40, page 738-743

A. Weinläder, S. Tenbohlen

Thermal-hydraulic investigation of transformer windings by CFD-Modelling and measurements.

16th International Symposium on High Voltage Engineering, Cape Town, South Africa, August 24-28, 2009, Proceedings of the ISH, paper No. D-22, page 958-963

P. Müller, S. Tenbohlen, R. Maier, M. Anheuser

Artificial Low current Arc Faults for Pattern Recognition in Low voltage Switchgear.

55th IEEE Holm Conference on Electrical Contacts, Vancouver, Canada, September 14-16, 2009, Proceedings of Holm Conference 2009, paper No. 1.3, page 14-20

S. Tenbohlen, D. Vukovic, M. Jovalekic, M. Schäfer, J. Harthun

Dielectric performance and dissolved gas analysis of natural esters for application in power transformers.

CIGRE international colloquium on "Materials and emerging test techniques", Budapest, Hungary, September 20-25, 2009

S. Coenen, M. Heindl, A. Pfeffer, S. Tenbohlen, S. Markalous

On Site Experiences with Multi-Terminal IEC PD Measurements, UHF PD Measurements and mixed UHF and Acoustic PD Localisation.

EuroDoble2009, Oktober 19-21, 2009, Berlin, paper No. 3.2

S. Coenen, S. Tenbohlen, S. Markalous

Detektion und Ortung von Teilentladungen durch die UHF-TE-Messmethode.

Internationaler ETG-Kongress 2009, Düsseldorf, 27.-28. Oktober 2009, Fachtagung 4: „Diagnostik elektrischer Betriebsmittel“, ETG-Fachbericht 119, Paper Nr. 4.45

M. Fischer, S. Tenbohlen

Unschärfe Modellierung, Anpassung und Verdichtung von DGA-Interpretationsmethoden für eine präzisere Zustandsabschätzung.

Internationaler ETG-Kongress 2009, Düsseldorf, 27.-28. Oktober 2009, Fachtagung 4: „Diagnostik elektrischer Betriebsmittel“, ETG-Fachbericht 119, Paper Nr. 4.36

M. Heindl, S. Tenbohlen, A. Kraetge, M. Krüger, J.L. Velásquez

Algorithmische Bestimmung der Pol-Nullstellen-Darstellung von Transferfunktionen bei Leistungstransformatoren zur Bewertung von FRA-Messungen.

Internationaler ETG-Kongress 2009, Düsseldorf, 27.-28. Oktober 2009, Fachtagung 4: „Diagnostik elektrischer Betriebsmittel“, ETG-Fachbericht 119, Paper Nr. 4.29

M. Jovalekic, S. Tenbohlen

Gas-in-Öl-Analyse natürlicher Esterflüssigkeiten unter thermischen und elektrischen Belastungen.

Internationaler ETG-Kongress 2009, Düsseldorf, 27.-28. Oktober 2009, Fachtagung 4: „Diagnostik elektrischer Betriebsmittel“, ETG-Fachbericht 119, Paper Nr. 4.48, S. 443-448

M. Koch, M. Krüger, S. Tenbohlen

Methoden zur Feuchtebestimmung in Transformatoren im Vergleich.

Internationaler ETG-Kongress 2009, Düsseldorf, 27.-28. Oktober 2009, Fachtagung 4: „Diagnostik elektrischer Betriebsmittel“, ETG-Fachbericht 119, Paper Nr. 4.32, S. 357-362

A. Kraetge, J.L. Velásquez, M. Krüger, M. Heindl, S. Tenbohlen

Erfahrungen mit dem praktischen Einsatz der Sweep Frequency Response Analysis (SFRA) zur Messung von Leistungstransformatoren.

Internationaler ETG-Kongress 2009, Düsseldorf, 27.-28. Oktober 2009, Fachtagung 4: „Diagnostik elektrischer Betriebsmittel“, ETG-Fachbericht 119, Paper Nr. 4.39

P. Müller, S. Tenbohlen, R. Maier, M. Anheuser
Erzeugung von stromschwachen Störlichtbögen zur Diagnose von Fehlern in Niederspannungsschaltanlagen.
Internationaler ETG-Kongress 2009, Düsseldorf, 27.-28. Oktober 2009, Fachtagung 4:
„Diagnostik elektrischer Betriebsmittel“, ETG-Fachbericht 119, Paper Nr. 4.55, Seite 483-488

A. Pfeffer, S. Coenen, S. Tenbohlen
Mehrstellen-Teilentladungs-Messung und UHF-Messmethode zur Vor-Ort-TE- Diagnose von Leistungstransformatoren.
Internationaler ETG-Kongress 2009, Düsseldorf, 27.-28. Oktober 2009, Fachtagung 4:
„Diagnostik elektrischer Betriebsmittel“, ETG-Fachbericht 119, Paper Nr. 4.03

H. Rebholz, S. Tenbohlen, W. Köhler
Time Domain Characterization of Radio Frequency Sources for the Design of Noise Suppression Filters.
IEEE Transactions on Electromagnetic Compatibility, Vol. 51, No. 4, November 2009

P. Karimifard, G.B. Gharehpetian, S. Tenbohlen
Localization of Winding Radial Deformation and Determination of Deformation Extent using Vector Fitting-based Estimated Transfer Function.
European Transactions on Electrical Power (ETEP), Vol. 19, Issue 5, July 2009, page 749–762

2010

M. Duval, I. Atanasova-Hoehlein, M. Cyr, M. Grisar, K. Carrander, F. Scatiggio, S. Tenbohlen, J. Dukarm, L. Arvidsson, P. Boman, A. Hall
Report on Gas Monitors for Oil-Filled Electrical Equipment.
Electra No. 248, February 2010, page 74-79; see also Technical Brochure No. 409

S. Coenen, A. Pfeffer, S. Tenbohlen, A. Wilson, S. Markalous
Möglichkeiten und Grenzen der Vor-Ort-Teilentladungsmesstechnik.
Stuttgarter Hochspannungssymposium 2010, 9.-10. März 2010, Tagungsband (ISBN 978-3-00-030454-5), S. 117-128

M. Fischer, T. Lübke, S. Tenbohlen, M. Schäfer, R. Haug
Effiziente Zuteilung knapper Wartungs- und Instandsetzungsressourcen an Leistungstransformatoren.
Stuttgarter Hochspannungssymposium 2010, 9.-10. März 2010, Tagungsband (ISBN 978-3-00-030454-5), S. 73-82

J. Hohloch, W. Köhler, S. Tenbohlen, M. Aidam, T. Krauß
Messverfahren zur Beurteilung des Emissionsverhaltens von geschirmten Energiekabeln für KFZ-Hochvoltbordnetze.
EMV 2010, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Düsseldorf, 9.-11. März 2010, Tagungsband, Seite 273

S. Tenbohlen, F. Streibl, C. Pratler, J. Hartmann
Leiterplatten-EMV-Filter.
VDE-GMM-Fachtagung AmE 2010 – Automotive meets Electronics, Dortmund, 15.-16. April 2010, GMM Fachbericht Band 64, Paper Nr. 6

M. Koch, M. Krueger, S. Tenbohlen
On-site Methods for Reliable Moisture Determination in Power Transformers.
Transmission and Distribution Conference 2010 IEEE PES, New Orleans, April 19-22, 2010, P 1-6

M. Koch, S. Raetzke, M. Krueger, S. Tenbohlen
Moisture Diagnostics of Power Transformers by a Fast and Reliable Dielectric Response Method.

CIGRE VI Workspot – Int. Workshop on Power Transformers, Foz do Iguacu, Brasil, April 25-28, 2010, Paper No. TP1-12

S. Tenbohlen

On site Measurement of Partial Discharges – Experiences with multi-Terminal IEC PD measurements, UHF PD measurements and Acoustic PD Localisation. CIGRE VI Workspot – Int. Workshop on Power Transformers, Foz do Iguacu, Brasil, April 25-28, 2010, Tutorials

S. Tenbohlen, M. Koch

Aging Performance and Moisture Solubility of Vegetable Oils for Power Transformers. IEEE Transactions on Power Delivery, Vol. 25, No. 2, April 2010, page 825-830

S.M. Gubanski, J. Blennow, B. Holmgren, M. Koch, A. Kuechler, R. Kutzner, J. Lapworth, D. Linhjell, S. Tenbohlen, P. Werelius

Dielectric Response Diagnoses for Transformer Windings.

Electra No. 249, April 2010, S. 64-71; see also Technical Brochure No. 414

Su Su Win, S. Coenen, S. Tenbohlen

Localization of Partial Discharges in Power Transformer by Acoustic Method. Second IEEE Student Conference 2010, Hamburg, May 20-21, 2010, Session 5

M. Fischer, S. Tenbohlen, M. Schäfer, R. Haug

Determining Power Transformers' Sequence of Maintenance and Repair in Power Grids. 2010 IEEE International Symposium on Electrical Insulation, San Diego, California, USA, June 6-10, 2010, Proceedings of the ISEI, Paper No. 067

S. Tenbohlen, A. Pfeffer, S. Coenen

On-site Experiences with Multi-Terminal IEC PD Measurements, UHF PD Measurements and Acoustic PD Localisation.

2010 IEEE International Symposium on Electrical Insulation, San Diego, California, USA, June 6-10, 2010, Proceedings of the ISEI, Paper No. 095

A. Pfeffer, S. Tenbohlen

Evaluation of Parameters of Lightning Impulse Voltages from Transformer Tests Using the New k-factor Approach.

IEEE Transactions on Dielectrics and Electrical Insulation, June 2010, Paper No. 2435, Vol. 17, Issue 3, pp. 953-958

E. Rahimpour, S. Tenbohlen

Experimental and Theoretical Investigation of Disc Space Variation in real High-Voltage Windings using Transfer Function Method.

IET Electr. Power Appl., July 2010, Vol. 4, Iss. 6, pp. 451-461

S. Coenen, S. Tenbohlen, A. Pfeffer, A. Wilson, S. Markalous

Combination of Different Techniques for Improved Interpretation of PD Measurements.

CIGRE Session, Paris, France, August 22-27, 2010, SC D1, PS2: Challenges for testing and diagnostics, Paper No. D1-207

A. Weinsläder, S. Tenbohlen, R. Wittmaack

Prediction of the Oil Flow and Temperature Distribution in Power Transformers by CFD.

CIGRE Session, Paris, France, August 22-27, 2010, SC A2, PS3: Transformer Modelling, Paper No. A2-301

S. Coenen, M. Reuter, S. Tenbohlen, S. Markalous
Influence of PD Location in Transformer windings on IEC60270- and UHF-Measurements.

International Conference on Condition Monitoring and Diagnosis (CMD), Tokyo, Japan,
September 6-11, 2010, Proceedings of the CMD, Paper No. A3-5, page 97-100

S. Coenen, S. Tenbohlen, F. Werner, S. Markalous
Localization of PD Sources inside Transformers by Acoustic Sensor Array and UHF Measurements.

International Conference on Condition Monitoring and Diagnosis (CMD), Tokyo, Japan,
September 6-11, 2010, Proceedings of the CMD, Paper No. A8-4, page 235-238

M. Heindl, S. Tenbohlen, J. Velásquez, A. Kraetge, R. Wimmer
Transformer Modelling Based On Frequency Response Measurements For Winding Failure Detection.

International Conference on Condition Monitoring and Diagnosis (CMD), Tokyo, Japan,
September 6-11, 2010, Proceedings of the CMD, Paper No. A7-3, page 201-204

A. Troeger, U. Riechert, S. Burow, S. Tenbohlen
Sensitivity Evaluation of Different Types of PD Sensors for UHF-PD-Measurements.
International Conference on Condition Monitoring and Diagnosis (CMD), Tokyo, Japan,
September 6-11, 2010, Proceedings of the CMD, Paper No. P1-49, page 839-842

M. Koch, S. Rätzke, S. Tenbohlen
Die Leitfähigkeit von Isolierflüssigkeiten bei niedrigen Frequenzen und Gleichspannung.
ETG-Fachtagung Isoliersysteme bei Gleich und Mischfeldbeanspruchung, Köln, 27.-
28.9.2010, Paper No. 5.6

M. Koch, S. Tenbohlen, T. Stirl
Diagnostic Application of Moisture Equilibrium for Power Transformers.
IEEE Transactions on Power Delivery, Vol. 25, No. 4, October 2010, page 2574-2581

A. Weinläder, S. Tenbohlen
Investigation of the Thermal Behaviour of Transformers by CFD and Validation by Measurements.
3rd International Advanced Research Workshop on Transformers, Santiago de
Compostela, Spain, October 4-6, 2010, Proceedings of ARWtr 2010, Paper No. 46, page
382-387

P. Müller, S. Tenbohlen, R. Maier, M. Anheuser
Characteristics of Series and Parallel Low Current Arc Faults in the Time and Frequency.

25th ICEC & 56th IEEE Holm Conference on Electrical Contacts, Charleston SC, USA,
October 4-7, 2010, Proceedings of the 56th Holm Conference, Paper No. 7.5, page 223-
229

K.J. Rapp, C.P. McShane, J. Vandermaar, D. Vukovic, S. Tenbohlen
Long Gap Breakdown of Natural Ester Fluid
International Conference on High Voltage Engineering and Application, New Orleans,
USA, October 11-14, 2010, Paper No. 7145

E. Rahimpour, M. Jabbari, S. Tenbohlen
Mathematical Comparison Methods to Assess Transfer Functions of Transformers to Detect Different Types of Mechanical Faults.
IEEE Transactions on Power Delivery, October 2010, Vol. 25, No. 4, pp. 2544-2555

J. Hohloch, W. Köhler, S. Tenbohlen, M. Aidam, T. Krauß
Measurement of Transient Pulses on High-Voltage Automotive Power Networks.
VDE-Kongress 2010, E-Mobility, Leipzig, 8. - 9. November 2010, Paper FZT 1.1.3

M. Reuter, W. Köhler, S. Tenbohlen
Characterization of automotive High Voltage Networks for EMI Measurements. VDE-Kongress 2010, E-Mobility, Leipzig, 8. - 9. November 2010, Paper FZT 1.2.4

A. Probst, S. Tenbohlen
Herausforderungen und Chancen für das Stromnetz durch Elektromobilität. VDE-Kongress 2010 - E-Mobility: Technologien - Infrastruktur - Märkte, Leipzig, November 2010

N. Schmidt, S. Tenbohlen
Beurteilung der Überlastbarkeit von ON-gekühlten Leistungstransformatoren. EW - Das Magazin für die Energie Wirtschaft, Jg. 109 (2010), Heft 25, S. 70-74

M. Duval, I. Hoehlein, F. Scatiggio, M. Cyr, M. Grisaru, R. Frotscher, M. Martins, L. Bates, P. Boman, A.C. Hall, G. Wilson, L. Arvidsson, M. Szebeni, K. Carrander, H. Athanassatou, A.M. Haug, A. Moellmann, H.J. Knab, J. VanPeteghem, G. Buchgraber, S. Tenbohlen, R. Maina, B. Pahlavanpour, P. McShane, C. Myers, R. Martin, Z. Wang
DGA in Non-Mineral Oils and Load Tap Changers and Improved DGA Diagnosis Criteria. ELECTRA No. 253, December 2010, page 85-89; see also Technical Brochure No. 443, WG D1.32

E. Gulski, T. Strehl, M. Muhr, S. Tenbohlen, S. Meijer, M.D. Judd, R. Bodega, E. Lemke, R.A. Jongen, S. Coenen, B. Larzelere, M. Hanai, P. Agoris
Guidelines for Unconventional Partial Discharge Measurements. ELECTRA No. 253, December 2010, page 91-95; see also Technical Brochure No. 444, WG D1.33

2011

M. Koch, S. Tenbohlen
Evolution of Bubbles in Oil-Paper-Insulation Influenced by Material Quality and Aging. IET Electr. Power Appl., Jan. 2011, Vol. 5, Iss. 1, pp. 168-174

D. Burger, S. Tenbohlen, W. Köhler, W. Ebbinghaus
Investigation of Electromagnetic Disturbance Sources in Medium Voltage Switchgear. 21st International Conference on Electricity Distribution (CIRED), Frankfurt, June 6-9, 2011, Paper No. 0388

A. Probst, M. Siegel, M. Braun, S. Tenbohlen
Impacts of Electric Mobility on Distribution Grids and Possible Solution through Load Management. 21st International Conference on Electricity Distribution (CIRED), Frankfurt, June 6-9, 2011, Paper No. 0126

P. Müller, S. Tenbohlen, R. Maier, M. Anheuser
Current Characteristics of Serial and Parallel Low Current Arc Faults in Distribution Networks. 21st International Conference on Electrical Distribution (CIRED), Frankfurt, June 6-9, 2011, Paper No. 0181

J. Smajic, W. Halaus, A. Troeger, S. Burow, R. Brandl, S. Tenbohlen
HF Resonators for Damping of VFTs in GIS. International Conference on Power Systems Transients, Delft, Netherlands, June 14-17, 2011, Proceedings of the IPST, Paper No. 185

D. Vukovic, S. Tenbohlen, J. Harthun, C. Perrier, H. Fink
Breakdown Strength of Vegetable-based Oils Under AC and Lightning Impulse Voltages.
17th IEEE International Conference on Dielectric Liquids, Trondheim, Norway, June 26-30, 2011, Paper No. 116

M. Jovalekic, D. Vukovic, S. Tenbohlen
Dissolved gas analysis of alternative dielectric fluids under thermal and electrical stress

17th IEEE International Conference on Dielectric Liquids, Trondheim, Norway, June 26-30, 2011, Paper No. 97

M. Jovalekic, D. Kolb, S. Tenbohlen, L. Bates, R. Szewczyk
A Methodology for Determining Water Saturation Limits and Moisture Equilibrium Diagrams of Alternative Insulation Systems.
17th IEEE International Conference on Dielectric Liquids, Trondheim, Norway, June 26-30, 2011, Paper No. 122

M. Beltle, S. Tenbohlen
Investigations on Vibrations of Power Transformers.
17th International Symposium on High Voltage Engineering, Hannover, Germany, August 22-26, 2011, Proceedings of the ISH, Paper No. F-073

M. Heindl, M. Beltle, M. Reuter, D. Schneider, S. Tenbohlen
Investigation of GIC related Effects on Power Transformers using modern Diagnostic Methods.

17th International Symposium on High Voltage Engineering, Hannover, Germany, August 22-26, 2011, Proceedings of the ISH, Paper No. F-077

D.T. Oyedokun, C.T. Gaunt, S. Tenbohlen, M. Heindl, M. Beltle, M. Reuter, D. Schneider
Laboratory Test for GIC Effects on Power Transformers.
17th International Symposium on High Voltage Engineering, Hannover, Germany, August 22-26, 2011, Proceedings of the ISH, Paper No. B-037

S. Burow, S. Tenbohlen, W. Köhler, J. Smajic, A. Tröger, W. Holaus
Can ferrite Materials or resonant Arrangements reduce the Amplitudes of VFTO in GIS?

17th International Symposium on High Voltage Engineering, Hannover, Germany, August 22-26, 2011, Proceedings of the ISH, Paper No. B-035

M. Heindl, S. Tenbohlen, R. Wimmer
Transformer Modeling Based on Standard Frequency Response Measurements.
17th International Symposium on High Voltage Engineering, Hannover, Germany, August 22-26, 2011, Proceedings of the ISH, Paper No. F-076

A. Müller, M. Jovalekic, S. Tenbohlen
Assessment of Oil Analysis Data for Medium Voltage Distribution Transformers.
17th International Symposium on High Voltage Engineering, Hannover, Germany, August 22-26, 2011, Proceedings of the ISH, Paper No. F-070

A. Müller, M. Beltle, S. Coenen, S. Tenbohlen
Correlation of DGA, UHF PD Measurement and Vibration Data for Power Transformer Monitoring.
17th International Symposium on High Voltage Engineering, Hannover, Germany, August 22-26, 2011, Proceedings of the ISH, Paper No. F-071

- A. Weinsläder, N. Schmidt, S. Tenbohlen, J. Harthun, H. Fink, S. Chen
Thermal-Hydraulic Investigation of a Large Power Step Up Transformer.
 17th International Symposium on High Voltage Engineering, Hannover, Germany, August 22-26, 2011, Proceedings of the ISH, Paper No. H-015
- A. Pfeffer, S. Tenbohlen, S. Kornhuber
Influences of PD Location and Frequency ranges on Measured Apparent charges.
 17th International Symposium on High Voltage Engineering, Hannover, Germany, August 22-26, 2011, Proceedings of the ISH, Paper No. D-40
- A. Pfeffer, S. Tenbohlen, S. Kornhuber
Pulse-Sequence Analysis of Partial Discharges in Power Transformers.
 17th International Symposium on High Voltage Engineering, Hannover, Germany, August 22-26, 2011, Proceedings of the ISH, Paper No. D-41
- M. Jovalekic, D. Vukovic, S. Tenbohlen
Dissolved gas analysis of alternative dielectric fluids under thermal and electrical stress.
 17th International Symposium on High Voltage Engineering, Hannover, Germany, August 22-26, 2011, Proceedings of the ISH, Paper No. F-067
- M. Jovalekic, S. Tenbohlen, L. Bates and R. Szewczyk
Water saturation limits and moisture equilibrium diagrams of alternative insulation materials
 17th International Symposium on High Voltage Engineering, Hannover, Germany, August 22-26, 2011, Proceedings of the ISH, Paper No. E-077
- S. Tenbohlen, F. Vahidi, J. Gebauer, M. Krüger, P. Müller
Assessment of Power Transformer Reliability.
 17th International Symposium on High Voltage Engineering, Hannover, Germany, August 22-26, 2011, Proceedings of the ISH, Paper No. G-026
- G.T. Velez, A. Weinsläder, S. Tenbohlen, P.K. Petrov
Verification of Analytical Expressions for Calculation of the Resistance to Ground of Single Conductive Concrete Encased Grounding Electrodes by FEM.
 17th International Symposium on High Voltage Engineering, Hannover, Germany, August 22-26, 2011, Proceedings of the ISH, Paper No. A-009
- A. Abdel-Majeed, R. Viereck, F. Oechsle, M. Braun, S. Tenbohlen
Effects of Distribution Generators from Renewable Energy on the Protection System in Distribution Networks.
 UPEC - 46th International Universities' Power Engineering Conference, Soest, September 5-8, 2011
- P. Müller, S. Tenbohlen, R. Maier, M. Anheuser
Influence of Capacitive and Inductive Loads on the Detectability of Arc Faults. 57th IEEE Holm Conference on Electrical Contacts, Minneapolis, USA, September 11-14, 2011, Proceedings of the 57th Holm Conference
- N. Schmidt, S. Tenbohlen, R. Skrzypek, B. Dolata
Assessment of Overload Capabilities of Power Transformers.
 Cigre SC A2 & D1 Joint Colloquium, Kyoto, Japan, September 11-16, 2011, Proceedings of the Cigre A2/D1 Joint Colloquium, Paper No. PS1-O-28
- D. Burger, S. Tenbohlen, W. Köhler, W. Ebbinghaus
Sources of Transient Electromagnetic Disturbance in Medium Voltage Switchgear.
 EMC Europe 2011, York, United Kingdom, September 26-30, 2011, Paper No. 114

J. Hohloch, W. Köhler, S. Tenbohlen, M. Aidam, T. Krauß
Measurement of Conducted Interferences in Automotive High-Voltage Power Networks.

EMC Europe 2011, York, England, September 26-30, 2011, Paper No. 250

M. Reuter, S. Tenbohlen, W. Köhler, A. Ludwig
Impedance Analysis of Automotive High Voltage Networks for EMC Measurements.
10th International Symposium on Electromagnetic Compatibility, EMC Europe, York,
England, UK, September 27-29, 2011, Conference Proceedings, Paper No. 130

M. Koch, M. Jovalekic, S. Tenbohlen
Diagnostic Tests for Ester Filled Transformers.
CIGRE SC A2 & D1 Joint Colloquium, September 2011, Kyoto, Japan

S. Rätzke, M. Koch, S. Tenbohlen, M. Jovalekic, A. Marinescu, I. Budan
Monitoring the water content in power transformers during oven drying process.
CIGRE SC A2 & D1 Joint Colloquium, September 2011, Kyoto, Japan

M. Jovalekic, S. Tenbohlen, L. Bates, R. Szewczyk
Water saturation limits and moisture equilibrium diagrams of alternative insulation materials.
CIGRE SC A2 & D1 Joint Colloquium, September 2011, Kyoto, Japan

E. Rahimpour, S. Tenbohlen
Fault Diagnosis of Actual Large-Power High-Voltage Windings using Transfer Function Method.
Archives of Electrical Engineering, Vol. 60, No. 3, pp. 269-281, September 2011

M. Fischer, S. Tenbohlen, M. Schaefer, R. Haug
Determining Power Transformers' Sequence of Service in Power Grids.
IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 18, Issue 5, pp. 1789-1797, October 2011

A. Probst, M. Braun, S. Tenbohlen
Erstellung und Simulation probabilistischer Lastmodelle von Haushalten und Elektrofahrzeugen zur Spannungsbandanalyse.
Internationaler ETG-Kongress, Würzburg, 8.-9. November 2011, Beitrag Nr. P06

S. Tenbohlen, A. Probst, P. Wajant
Neuer Strom in alten Netzen?
In: Erneuerbare Energie, 3. Auflage, S. 112-119. Herausgeber Thomas Bürke und Roland Wengenmayr, © 2012 WILEY-VCH Verlag

S. Coenen, S. Tenbohlen, R. Heywood, M. Boltze
Prospects and Limits of on-site PD Measurement Technique.
2011 International Conference of Doble Clients, Boston, 2011

S. Tenbohlen, A. Pfeffer, S. Coenen
On-site Partial Discharge Measurement in Power Transformers by UHF Sensors.
Highvolt Symposium, Dresden, 2011

M. Koch, S. Rätzke, M. Krüger, S. Tenbohlen
A Systematic Benchmark of today's Moisture Assessment Methods for Power Transformers.
Matpost 2011, Lyon, France, 2011

S. Tenbohlen

Herausforderungen und Lösungen für die Energieversorgungsnetze.
Stiftungsreihe 93, ISSN 0932-156x, Alcatel-Lucent Stiftung, Stuttgart 2011

A. Probst, M. Braun, S. Tenbohlen

Erstellung und Simulation probabilistischer Lastmodelle von Haushalten und Elektrofahrzeugen zur Spannungsbandanalyse.

VDE-Kongress, Würzburg, November 8-9, 2011, Beitrag Nr. 02.09

A. Probst, M. Braun, J. Backes, S. Tenbohlen

Probabilistic analysis of voltage bands stressed by electric mobility.

IEEE Power and Energy Society, Innovative Smart Grid Technologies, Manchester, December 5-9, 2011

2012

A. Weinläder, W. Wu, S. Tenbohlen, Z. Wang

Prediction of the Oil Flow Distribution in Oil-immersed Transformer Windings by Network Modelling and CFD.

IET Electric Power Applications, Vol. 6, Issue 2, 2012

P. Wiest, A. Probst, M. Braun, S. Tenbohlen

Wirtschaftliche Betrachtung von Batteriespeichern zur Frequenzregelung

IEEE Power and Energy Student Summit, Ilmenau, January 19-20, 2012

G. Kayser, A. Probst, M. Braun, S. Tenbohlen

Probabilistische Lastmodellierung von Haushaltlasten.

IEEE Power and Energy Student Summit, Ilmenau, January 19-20, 2012

J. Horn, A. Probst, M. Braun, S. Tenbohlen

A new approach using load control to dampen interarea frequency oscillations.

IEEE Power and Energy Student Summit, Ilmenau, January 19-20, 2012

J. Hohloch, W. Köhler, S. Tenbohlen, M. Aidam, T. Krauß

Charakterisierung und Vergleich leitungsgebundener Störungen an KFZ-Hochvoltbordnetzen.

EMV 2012, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Düsseldorf, 7.-9. Februar 2012, Tagungsband S. 477-484

D. Schneider, S. Tenbohlen, W. Köhler

Untersuchung von Vorhersagemethoden der Abstrahlung bei Komponenten tests nach CISPR 25.

EMV 2012, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Düsseldorf, 7.-9. Februar 2012, Tagungsband S. 263-271

M. Reuter, M. Waible, S. Tenbohlen, W. Köhler

Einfluss der Abschlussimpedanz von Hochvoltkabeln auf Funkstörgrößen in elektrisch angetriebenen Kraftfahrzeugen.

EMV 2012, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Düsseldorf, 7.-9. Februar 2012, Tagungsband S. 469-476

D. Burger, S. Tenbohlen, W. Köhler, W. Ebbinghaus

Auswirkungen multipler Rückzündungen in vakuumisolierten Leistungsschaltern auf die EMV von Mittelspannungsschaltanlagen.

EMV 2012, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Düsseldorf, 7.-9. Februar 2012, Tagungsband S. 199-206

M. Siegel, S. Kornhuber, M. Beltle, A. Müller, S. Tenbohlen
Monitoring von Teilentladungen in Leistungstransformatoren.
Stuttgarter Hochspannungssymposium 2012, 6.-7. März 2012, Tagungsband (ISBN 978-3-00-037432-6), S. 229-238

S. Burow, U. Riechert, W. Köhler, S. Tenbohlen
New mitigation methods for transient overvoltages in gas insulated substations.
Stuttgarter Hochspannungssymposium 2012, 6.-7. März 2012, Tagungsband (ISBN 978-3-00-037432-6), S. 169-181

M. Jovalekic, S. Tenbohlen
Gassing behavior of various alternative insulating liquids under thermal and electrical stress

IEEE Conference on Electrical Insulation (ISEI), San Juan, Puerto Rico, 10.-13. Juni 2012, pp. 490-494

M. Jovalekic, D. Vukovic, S. Tenbohlen, J. Harthun, C. Perrier
Comparative Experimental Study of Dielectric Strength of Oil-cellulose Insulation for Mineral and Vegetable-based Oils.
IEEE Conference on Electrical Insulation (ISEI), San Juan, Puerto Rico, 10.-13. Juni 2012, pp. 424-428

R. Frotscher, D. Vukovic, M. Jovalekic, S. Tenbohlen, J. Harthun., C. Perrier,
M. Schäfer
Behaviour of Ester Liquids under Dielectric and Thermal Stress – From Laboratory Testing to Practical Use.
CIGRE Session 2012, Paris, Frankreich, 26.-31. August 2012

J. Hohloch, W. Köhler, S. Tenbohlen, M. Aidam, A. Ludwig
Measurement of Transfer Impedances of Components for Automotive High-Voltage Power Networks.
EMC Europe 2012, Rom, Italien, September 17-21, 2012, Paper No. B3-2

D. Schneider, S. Tenbohlen, W. Köhler
Pre-Compliance Test Method for Radiated Emissions of Automotive Components Using Scattering Parameter Transfer Functions.
EMC Europe 2012, Rom, Italien, September 17-21, 2012, Paper No. A8-1

M. Reuter, S. Tenbohlen, W. Köhler
Influence of Termination Impedance on conducted Emissions in Automotive High Voltage Networks.
11th International Symposium on Electromagnetic Compatibility, EMC Europe, Rom, Italien, September 17-21, 2012, Conference Proceedings,
Paper No. B3-1

D. Burger, S. Tenbohlen, W. Köhler, W. Ebbinghaus
Impact of Multiple Restrikes at Vacuum Circuit Breakers on the EMC of Medium Voltage Switchgear.
EMC Europe 2012, Rom, Italien, September 17-21, 2012, Paper No. C2-1

M. Beltle, S. Tenbohlen
Usability of Vibration Measurement for Power Transformer Diagnosis and Monitoring.
IEEE International Conference on Condition Monitoring and Diagnosis (CMD), September 23-27, 2012, Bali, Indonesien, Paper No. A129, pp. 281 – 284

M. Beltle, A. Müller, S. Tenbohlen
Analysis of UHF PF Monitoring Data by Means of Normalized Cross-Correlation.
IEEE International Conference on Condition Monitoring and Diagnosis (CMD), September 23-27, 2012, Bali, Indonesien, Paper No. G-11, pp. 103 – 106

A. Müller, M. Jovalekic, S. Tenbohlen
Solubility Study of Different Gases in Mineral and Ester-based Transformer oils.
2012 IEEE International Conference on Condition Monitoring and Diagnosis (CMD), Bali, Indonesien, September 23-27, 2012, Paper No. A-124, pp. 937-940

A. P. Purnomoadi, M. A. G. Al-Suhaily, S. Meijer, J. J. Smit, S. Burow, S. Tenbohlen
The Influence of Free Moving Particles on the Breakdown Voltage of GIS under Different Electrical Stresses.
2012 IEEE International Conference on Condition Monitoring and Diagnosis (CMD), Bali, Indonesien, September 23.-27, 2012, Paper No. A-164, pp. 383-386

M. Reuter, S. Tenbohlen, W. Köhler
Messung leitungsgebundener Störgrößen von Komponenten für Hochvolt-Anwendungen.
4. AutoTest, Fachkonferenz zum Thema: „Test von Hard- und Software in der Automobilentwicklung“, 17.-18. Oktober 2012, Haus der Wirtschaft, Stuttgart

M. Heindl, M. Beltle, S. Tenbohlen, U. Sundermann, F. Schatzl
Betriebsverhalten von Leistungstransformatoren in Hybridnetzen.
VDE-Kongress, Intelligente Energieversorgung der Zukunft, Stuttgart, 5.-6.11.2012, Beitrag Nr. P4.7

S. Tenbohlen, M. Heindl, M. Jovalekic, A. Müller, M. Siegel
Trends in der Diagnostik von Hochspannungs-Betriebsmitteln.
VDE-ETG-Fachtagung: Diagnostik elektrischer Betriebsmittel, Fulda, 14.-16.11.2012, Beitrag Nr. 1

M. Beltle, A. Müller, S. Tenbohlen
Analyse von UHF-TE-Langzeitmessungen mittels bilderkennender Verfahren. VDE-ETG-Fachtagung: Diagnostik elektrischer Betriebsmittel, Fulda, 14.-16.11.2012, Beitrag Nr. 8

M. Siegel, S. Tenbohlen S. Kornhuber
Neue Methoden zur Ortung mehrerer TE-Quellen mittels akustischem Sensorarray.
VDE-ETG-Fachtagung: Diagnostik elektrischer Betriebsmittel, Fulda, 14.-16.11.2012, Beitrag Nr. 12

M. Heindl, M. Beltle, S. Tenbohlen und S. Coenen (Siemens, Nürnberg)
Untersuchung der Vergleichbarkeit von Übertragungsfunktionsmessungen (FRA) an Leistungstransformatoren.
VDE-ETG-Fachtagung: Diagnostik elektrischer Betriebsmittel, Fulda, 14.-16.11.2012, Beitrag Nr. 14

M. Beltle, M. Siegel, S. Tenbohlen und S. Coenen (Siemens, Nürnberg)
Untersuchungen verschiedener Verfahren zur TE-Detektion und zur Vibrationsmessung.
VDE-ETG-Fachtagung: Diagnostik elektrischer Betriebsmittel, Fulda, 14.-16.11.2012, Beitrag Nr. 15

S. Burow, W. Köhler, S. Tenbohlen, U. Straumann
Messung und Dämpfung von sehr schnellen Transienten (VFT) in gasisolierten Schaltanlagen.
VDE-ETG-Fachtagung: Diagnostik elektrischer Betriebsmittel, Fulda, 14.-16.11.2012, Beitrag Nr. 32

A. Müller, S. Tenbohlen

Fehlergasverluste über das Ausdehnungsgefäß eines freiatmenden Leistungstransformators.

VDE-ETG-Fachtagung: Diagnostik elektrischer Betriebsmittel, Fulda, 14.-16.11.2012, Beitrag Nr. 33

A. Müller, M. Jovalekic, S. Tenbohlen

Studie über die Löslichkeit verschiedener Gase in mineralischen und auf Estern basierenden Transformator- Ölen.

VDE-ETG-Fachtagung: Diagnostik elektrischer Betriebsmittel, Fulda, 14.-16.11.2012, Beitrag Nr. 46

M. Beltle, S. Tenbohlen

Untersuchung der Vibrationen von Leistungstransformatoren für Diagnose und Monitoring.

VDE-ETG-Fachtagung: Diagnostik elektrischer Betriebsmittel, Fulda, 14.-16.11.2012, Beitrag Nr. 47

N. Schmidt, S. Tenbohlen, P. Mazidi

The Overload Assessment of Power Transformers by Thermal Monitoring.

VDE-ETG-Fachtagung: Diagnostik elektrischer Betriebsmittel, Fulda, 14.-16.11.2012, Beitrag Nr. 48

M. Jovalekic, S. Tenbohlen

Gas in Öl Analyse verschiedener alternativer Isolieröle unter thermischen und elektrischen Belastungen.

VDE-ETG-Fachtagung: Diagnostik elektrischer Betriebsmittel, Fulda, 14.-16.11.2012, Beitrag Nr. 53

N. Schmidt, A. Weindlader, S. Tenbohlen, Universität Stuttgart; S. Chen, Alstom Grid, Massy, Frankreich

Experimental Investigation of the Temperature Distribution within the Low Voltage Winding of a Large Power Transformer.

VDE-ETG-Fachtagung: Diagnostik elektrischer Betriebsmittel, Fulda, 14.-16.11.2012, Beitrag Nr. 54

M. Wild, S. Tenbohlen, E. Gulski

Die Anwendung von gedämpften Wechselfspannungen für Vor-Ort-Prüfungen und Zustandsbestimmung von Hochspannungskabeln.

VDE-ETG-Fachtagung: Diagnostik elektrischer Betriebsmittel, Fulda, 14.-16.11.2012, Beitrag Nr. 74

M. Beltle, A. Müller, S. Tenbohlen

Statistical Analysis of Online Ultrahigh-Frequency Partial-Discharge Measurement of Power Transformers.

IEEE Electrical Insulation Magazine, Vol. 28, No. 6, November/December 2012, pp. 15 – 19

P. Karimifard, G.B. Gharehpetian, A.J. Ghanizadeh, S. Tenbohlen

Estimation of simulated transfer function to discriminate axial displacement and radial deformation of transformer winding.

COMPEL, The international journal for computation and mathematics in electrical and electronics engineering, Special section: selected papers from the 4th International Conference on Electromagnetic Fields, Health and Environment, UK-Bingley, 2012, S. 1277-1293

S. Coenen, S. Tenbohlen

Location of PD Sources in Power Transformers by UHF and Acoustic Measurements.
IEEE Transactions on Dielectrics and Electrical Insulation, December 2012, Vol. 19, Issue 6, pp. 1934-1940

S. Tenbohlen, J. Jagers, G. Bastos, B. Diggin, P. Manski, B. Desai, M. Krüger, J. Gebauer, P. Müller, J. Lapworth, A. Mikulecky, C. Rajotte, T. Sakia, S. Yukiyasu
Transformer Reliability survey: Interim Report
Report WG A2.37, Electra, No. 261, April 2012

R. Pietsch, W. Hauschild, J. Blackett, R. Bodega, A. Claudi, B. Finlay, M. Gamlin, E. Gockenbach, E. Gulski, R.A. Jongen, T. Leibfried, E. Lemke, S. Meijer, P. Mohaupt, Michael Muhr, F. Petzold, E. Pultrum, G. Rizzi, T. Strehl, C. Sumereder, S. Tenbohlen, P. Werle
High-Voltage On-Site Testing with Partial Discharge Measurement
Brochure 502, WG D1.33 (CIGRE), June 2012

A. Müller, M. Bettle, and S. Tenbohlen

Automated PRPD Pattern Analysis using Image Recognition
International Journal Electrical Engineering and Informatics, vol. 4, no. 3, pp. 483–494, 2012

2013

A. Ellerbrock, A. Abdel-Majeed, S. Tenbohlen

Design and Building of a Cheap Smart Meter.
IEEE Power and Energy Student Summit, Bielefeld, January 24-25, 2013

S. Burow, U. Straumann, W. Köhler, S. Tenbohlen

Damping of VFTO by RF Resonator and Nanocrystalline Materials.
Electrical Insulation Conference 2013, Ottawa, Canada, 2.-5. Juni 2013, Conference Proceedings, Paper No. 097

F. Vahidi, M. Jovalekic, S. Tenbohlen, M. Rösner, C. Perrier, H. Fink

Electrical conductivity measurement and determination of ion mobility in insulating oil.
Electrical Insulation Conference (EIC), Ottawa, Canada, 2-5. Juni 2013, Paper No. 068, pp. 313-317

S. Burow, U. Straumann, W. Köhler, S. Tenbohlen

Measurement System for Very Fast Transient Overvoltages in Gas Insulated Switchgear.

Electrical Insulation Conference 2013, Ottawa, Canada, 2.-5. Juni 2013, Conference Proceedings, Paper No. 105

M. Wild, S. Tenbohlen, E. Gulski, R. Jongen

Power Cable Modeling for PD Pulse Propagation and Sensitivity.
EIC 2013, Electrical Insulation Conference, 2.-5. Juni 2013, Ottawa, Canada, Paper No. 087

M. Wild, S. Tenbohlen, E. Gulski, R. Jongen, F. de Vries

Practical aspects of PD localization for long length Power Cables.
EIC 2013, Electrical Insulation Conference, 2.-5. Juni 2013, Ottawa, Canada, Paper No. 088

- S. Eilenberger, D. Schöllhorn, G. Walker, S. Tenbohlen, M. Braun
Probabilistic Simulation for LF-Grid Optimization with new Network Components.
 CIRED, 22nd International Conference on Electricity Distribution, June 10-13, 2013,
 Stockholm, Schweden, June 10-13, 2013, Paper 0575
- A. Probst, S. Tenbohlen, M. Seel, M. Braun
Probabilistic grid planning with consideration of dispersed generation and electric vehicles.
 CIRED, 22nd International Conference on Electricity Distribution, June 10-13, 2013,
 Stockholm, Schweden, Paper 1361
- A. Abdel-Majeed, S. Tenbohlen, D. Schöllhorn, M. Braun
Meter Placement for Low Voltage System State estimation with Distributed Generation.
 CIRED, 22nd International Conference on Electricity Distribution, June 10-13, 2013,
 Stockholm, Schweden, June 10-13, 2013, Paper 0640
- A. Abdel-Majeed, S. Tenbohlen, D. Schöllhorn, M. Braun
Development of State Estimator for Low Voltage Networks Using Smart Meters Measurement Data.
 POWERTECH 2013, Grenoble, Frankreich, June 16-20, 2013, Paper A5562AA
- M. Nemati, M. Imran, B. Meyer, M. Braun, H. Mueller, S. Tenbohlen
Development of Generic Dynamic Models for Distributed Generators in Microgrids.
 POWERTECH 2013, Grenoble, Frankreich, June 16-20, 2013, Paper A5725MN
- M. Brunner, M. Braun, S. Tenbohlen
Heat pumps as important contributors to local demand-side management
 POWERTECH 2013, Grenoble, Frankreich, June 16-20, 2013, Paper A5721MB
- J. Smajic, A. Shoory, S. Burow, W. Holaus, U. Riechert, S. Tenbohlen
Simulation Based Design of HF-Resonators for Damping of Very Fast Transients in GIS.
 COMPUMAG 2013, Budapest, Ungarn, June 30 –July 4, 2013, Paper No. PB6-2
- M. Reuter, T. Friedl, S. Tenbohlen, W. Köhler
Emulation of Conducted Emissions of an Automotive Inverter for Filter Development in HV Networks.
 IEEE International Symposium on Electromagnetic Compatibility, Denver, USA, August 5-9, 2013, Conference Proceedings pp. 236-241
- D. Schneider, M. Böttcher, S. Tenbohlen, W. Köhler
Pre-Compliance Test Method for Radiated Emissions with Multiple Segment Transfer Functions.
 IEEE International Symposium on Electromagnetic Compatibility, Denver, USA, August 5-9, 2013, Conference Proceedings pp. 605-610
- M. Siegel, S. Tenbohlen, H.O. Kristiansen (Doble TransiNor AS)
New Methods for Multisource PD Localization On Power Transformers by an Acoustic Sensor Array.
 18th International Symposium on High Voltage Engineering, ISH 2013, Seoul, Südkorea, 25.-30. August 2013, Paper OF4-02
- M. Beltle, M. Siegel, S. Tenbohlen
Investigations of in-oil Methods for PD Detection and Vibration Measurement.
 18th International Symposium on High Voltage Engineering, ISH 2013, Seoul, Südkorea, 25.-30. August 2013, Paper OD5-04

A. Müller, M. Beltle, M. Siegel, S. Tenbohlen
Assessment of UHF PD Monitoring Data by Means of Pattern Recognition.
18th International Symposium on High Voltage Engineering, ISH 2013, Seoul, Südkorea,
25.-30. August 2013, Paper OF4-05

Win S. S., S. Tenbohlen
Partial Discharge Localization in Power Transformers.
18th International Symposium on High Voltage Engineering, ISH2013, Seoul, Südkorea,
25.-30. August 2013, Proceedings of the ISH, Paper No. OD5-01

A. Müller, S. Tenbohlen
Analysis of Fault Gas Losses through the Conservator Tank of free-breathing Power Transformers.
18th International Symposium on High Voltage Engineering, ISH 2013, Seoul, Südkorea,
25.-30. August 2013, Paper OF3-02

M. Beltle, S. Tenbohlen
Vibration Analysis of Power Transformers.
18th International Symposium on High Voltage Engineering, ISH 2013, Seoul, Süd-korea,
25.-30. August 2013, Paper OF3-05

N. Schmidt, S. Tenbohlen, S. Chen, C. Breuer
Numerical and Experimental Investigation of the Temperature Distribution inside Oil-Cooled Transformer Windings.
18th International Symposium on High Voltage Engineering, ISH 2013, Seoul, Südkorea,
25.-30. August 2013, Paper OG1-03

A. Müller, S. Tenbohlen
Analysis of Fault Gas Losses through the Conservator Tank of Free-Breathing Power Transformers.
18th International Symposium on High Voltage Engineering, ISH2013, Seoul, Südkorea,
25.-30. August 2013, Proceedings of the ISH, Paper No. OF3-02

A. Müller, M. Beltle, M. Siegel, S. Tenbohlen
Assessment of UHF PD Monitoring Data by Means of Pattern Recognition.
18th International Symposium on High Voltage Engineering, ISH2013, Seoul, Südkorea,
26.-30. August 2013, Proceedings of the ISH, Paper No. OF4-05

J. Hohloch, S. Tenbohlen, W. Köhler, M. Aidam, A. Ludwig, X. Pan
RF coupling behaviour between the high and low voltage levels in automotive power networks.
12th International Symposium on Electromagnetic Compatibility, EMC Europe, Brügge, Belgien, September 2-6, 2013, Conference Proceedings, Paper No. 302

M. Reuter, S. Tenbohlen, W. Köhler
Influence of a Traction Battery's Input Impedance on Conducted Emissions of an Automotive HV Inverter.
12th International Symposium on Electromagnetic Compatibility, EMC Europe, Brügge, Belgien, September 2-6, 2013, Conference Proceedings, pp. 229 - 234

D. Schneider, M. Böttcher, B. Schoch, S. Hurst, S. Tenbohlen, W. Köhler
Transfer Functions and Current Distribution Algorithm for the Calculation of Radiated Emissions of Automotive Components.
12th International Symposium on Electromagnetic Compatibility, EMC Europe, Brügge, Belgien, September 2-6, 2013, pp. 443-448 (Best Paper Award)

- S. Coenen (Siemens AG), M. Beltle, M. Siegel, S. Tenbohlen
Investigations of in-oil Methods for PD Detection and Vibration Measurement.
 CIGRE SC A2 & C4 JOINT COLLOQUIUM 2013, Zürich, Schweiz, 8.-14. September
 2013, Paper PS3 id093
- S. Tenbohlen, M. Siegel, M. Beltle, M. Reuter
*Suitability of Ultra High Frequency Partial Discharge Measurement for Quality Assurance
 and Testing of Power Transformers .*
 CIGRE SC A2 & C4 JOINT COLLOQUIUM 2013, Zürich, Schweiz, 8.-14. September
 2013, Paper PS3 id118
- M. Reuter, S. Tenbohlen, W. Köhler
*Einfluss der Batterieimpedanz auf EMV-Störgrößen im Hochvoltbordnetz elektrisch
 angetriebener Kraftfahrzeuge.*
 Internationaler ETG-Kongress, 5.-6. November 2013, Berlin, Beitrag EM_02.01
- S. Eilenberger, G. Kayser, S. Tenbohlen, D. Schöllhorn, M. Braun, M. Sojer, T. Smolka
Probabilistische Netzsimulation zur Bewertung von regelbaren Transformatoren.
 Internationaler ETG-Kongress, 5.-6. November 2013, Berlin, Beitrag 02.09.03
- A. Abdel-Majeed, S. Tenbohlen, D. Schöllhorn, M. Braun
Platzierung von Messstationen zur Zustandsschätzung in Niederspannungsnetzen.
 Internationaler ETG-Kongress, 5.-6. November 2013, Berlin, Beitrag 02.10.02
- M. Brunner, M. Braun, S. Tenbohlen
Wärmepumpen als Möglichkeit zur Spannungsregelung in Niederspannungsnetzen.
 Internationaler ETG-Kongress, 5.-6. November 2013, Berlin, Beitrag 02.12.04
- J. Hohloch, S. Tenbohlen, W. Köhler, A. Ludwig, X. Pan
*Untersuchung der elektromagnetischen Kopplung zwischen KFZ-Bordnetzen mit
 verschiedenen Spannungsebenen.*
 Internationaler ETG-Kongress, 5.-6. November 2013, Berlin, Beitrag Nr. P71
- M. Wild, S. Tenbohlen, R. Jongen, B. Quak
*Untersuchung von Teilentladungsverhalten mit Wechselspannung und gedämpfter
 Wechselspannung.*
 4. ETG-Fachtagung „Grenzflächen in elektrischen Isoliersystemen“,
 12.-13. November 2013, Dresden, Tagungsband S. 198
- M. Jovalekic, S. Tenbohlen, J. Harthun, C. Perrier
Performance of alternative insulating liquids at low temperature.
 4. ETG-Fachtagung „Grenzflächen in elektrischen Isoliersystemen“,
 12.-13. November 2013, Dresden, Paper P.2, Tagungsband S. 90
- F. Vahidi, S. Tenbohlen, M. Rösner, C. Perrier, H. Fink
*The investigation of the temperature and electric field dependency of mineral oil electrical
 conductivity.*
 4. ETG-Fachtagung „Grenzflächen in elektrischen Isoliersystemen“,
 12.-13. November 2013, Tagungsband S. 111
- U. Schichler, W. Koltunowicz, F. Endo, K. Feser, A. Girodet, H. Hama,
 L. Lundgaard, S. Meijer, C. Neumann, S. Okabe, J. Pearson, R. Pietsch,
 U. Riechert, S. Tenbohlen, B. Hampton, J.L. Roldan
Risk Assessment on Defects in GIS Based on PD Diagnostics.
 IEEE Transactions on Dielectrics and Electrical Insulation, December 2013, Vol. 20, Issue
 6, pp. 2165-2172

U. Schichler, W. Koltunowicz, F. Endo, K. Feser, A. Giboulet, A. Girodet, H. Hama, L. Lundgaard, S. Meijer, C. Neumann, S. Okabe, J. Pearson, R. Pietsch, U. Riechert, S. Tenbohlen, B. Hampton, J.L. Roldan, H.-G. Kranz
Risk Assessment on Defects in GIS Based on PD Diagnostics.
Cigre Brochure 525, Paris, February 2013

2014

M. Beltle, M. Siegel, M. Gnädig, S. Tenbohlen, U. Sundermann, F. Schatzl
Beeinflussung von Leistungstransformatoren in Hybridnetzen.
Internationaler ETG Kongress, Berlin, 5.-6. November 2013, Beitrag Nr. P54

T. Straub, M. Brunner, S. Tenbohlen
Einfluss von Nachtspeicheröfen auf elektrische Verteilnetze.
IEEE Power and Energy Summit (PESS) 2014, Stuttgart, 22.-24. Januar 2014

S. Sultani, M. Brunner, S. Tenbohlen
Nutzung saisonaler Wärmespeicher zur Stabilisierung elektrischer Verteilnetze.
IEEE Power and Energy Summit (PESS) 2014, Stuttgart, 22.-24. Januar 2014

T. Nauhauser, M. Nemati, S. Tenbohlen
Unsicherheiten der PV- & Windenergieerzeugung und deren Einfluss auf Energiemanagementsysteme in Mikronetzen.
IEEE Power and Energy Summit (PESS) 2014, Stuttgart, 22.-24. Januar 2014

P. Wiest, S. Eilenberger, S. Tenbohlen
Ausfallarbeit bei einem Einspeisemanagement für Photovoltaikanlagen im Niederspannungsnetz.
IEEE Power and Energy Summit (PESS) 2014, Stuttgart, 22.-24. Januar 2014, S. 78-84

M. Reuter, S. Tenbohlen, W. Köhler
The Influence of Network Impedance on Conducted Disturbances within the High-Voltage Traction Harness of Electric Vehicles.
IEEE Transactions on EMC, Vol. 56, No. 1, February 2014, pp. 35-43

J. Harthun, T. Stirl, M. Jovalekic, S. Tenbohlen
Einsatz umweltfreundlicher Isolierflüssigkeiten in Leistungstransformatoren unter Berücksichtigung tiefer Temperaturen.
Stuttgarter Hochspannungssymposium 2014, 11.-12. März 2014, S. 115-123

W. Ebbinghaus, C. Suttner, D. Burger, S. Tenbohlen
Systembasierte EMV-Prüfung für Mittelspannungsschaltanlagen – Grenzen der geltenden Störfestigkeitsanforderungen.
Stuttgarter Hochspannungssymposium 2014, 11.-12. März 2014, S. 173-186

M. Siegel, S. Tenbohlen
Kalibrierbarkeit verschiedener TE-Messverfahren für Leistungstransformatoren.
Stuttgarter Hochspannungssymposium 2014, 11.-12. März 2014, S. 239-249

M. Szewczyk, J. Pawlowski, K. Kutorasinski, S. Burow, S. Tenbohlen, W. Piasecki
Identification of rational function in s-domain describing a magnetic material frequency characteristics.
9th IET International Conference on Computation in Electromagnetics (CEM 2014), March 31-April 1, 2014, London, UK, Paper No. P1-06

- M. Nemati, L. Tao, T. Nauhauser, H. Müller, M. Braun, S. Tenbohlen
Optimal operation and sizing of battery storage systems for microgrid peak shaving applications.
 7th International Conference on PV-Hybrids and Mini-Grids, Bad Hersfeld, Germany, 10.-11. April 2014, S. 182-187
- M. Nemati, L. Tao, T. Nauhauser, H. Müller, M. Braun, S. Tenbohlen
Optimal microgrid energy management strategies concerning uncertainties of renew-able energy generation.
 7th International Conference on PV-Hybrids and Mini-Grids, Bad Hersfeld, Germany, 10.-11. April 2014, S. 208-213
- E. Fohry, A. Müller, M. Beltle, M. Siegel, S. Tenbohlen
Neue Methodik der Zustandsüberwachung von Transformatoren mithilfe von Online- TE-Messung und Vibrationsmonitoring.
 VGB Powertech KELI 2014, Konferenz Elektrotechnik, Leittechnik, Informationsverarbeitung im Kraftwerk, Landshut, 6.-8. Mai 2014
- A. Ciuriuc, P. Notingher, M. Jovalekic, S. Tenbohlen
Experimental study on vegetable and mineral transformer oils properties.
 14th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM 2014), May 22-24, 2014, Brasov, Romania, pp. 169-174
- M.G. Niasar, R.C. Kiiza, N. Taylor, W. Xiaolei, H. Edin, S. Tenbohlen
Effect of partial discharges on thermal breakdown of oil impregnated paper.
 Proceedings of 2014 International Conference on Electrical Insulating Materials (ISEIM), June 1-5, 2014, Niigata City, Japan, pp. 196-199
- F. Vahidi, M. Jovalekic, S. Tenbohlen, M. Rösner, C. Perrier, H. Fink
Influence of Electrode Material on Conductivity Measurements under DC Stresses.
 18th IEEE international Conference on Dielectric Liquids, Bled, Slovenia, June 29 - July 03, 2014, Paper No. 189
- F. Vahidi, M. Jovalekic, S. Tenbohlen, M. Rösner, C. Perrier, H. Fink
Space Charge Formation in Insulating Liquids under DC Stresses.
 18th IEEE international Conference on Dielectric Liquids, Bled, Slovenia, June 29 - July 03, 2014, Paper No. 190
- P. Arnold, M. Hering, S. Tenbohlen, W. Köhler, U. Riechert, U. Straumann
Discharge Phenomena at Partially Damaged Dielectric Electrode Coatings in SF₆-Insulated Systems at AC and DC Stress.
 20th International Conference on Gas Discharges and their Applications, Orléans, France, 6.-11.7.2014, Paper No. B-9
- S. Eilenberger, J. Schäfer, P. Wiest, S. Tenbohlen, D. Schöllhorn
Power management systems for voltage control in probabilistic simulations.
 PMAAPS 2014, 13th International Conference on Probabilistic Methods Applied to Power Systems, Durham, UK, July 7-10, 2014, Paper No. 026, ISBN 978-1-4799-3561-1/14
- A. Abdel-Majeed, C. Kattmann, R. Saur, S. Tenbohlen
Usage of Artificial Neural Networks for Pseudo Measurement Modeling in Low Voltage Distribution Systems.
 IEEE Power & Energy Society General Meeting 2014, Washington, D.C., USA, July 27-31, 2014, Paper No. 961

C. Kattmann, A. Abdel-Majeed, S. Tenbohlen
Database-Assisted Load Flow Simulation for Low Voltage Grids Using a Model Reduction Approach.
IEEE Power & Energy Society General Meeting 2014, Washington, D.C., USA, July 27-31, 2014, Paper No. 148

M. Djamali, S. Tenbohlen
A priori Metrics to Select the Best Training Dataset of Top-Oil Temperature Models of Power Transformer.
International Conference on High Voltage engineering and its Applications (ICHVE), Poznan, Poland, September 8-11, 2014, Paper No. B-6-1

P. Arnold, S. Tenbohlen, W. Köhler, U. Riechert, U. Straumann
Fixed Particles in Coaxial SF6 Arrangements at Various Voltage Stresses.
International Conference on High Voltage engineering and its Applications (ICHVE), Poznan, Poland, September 8-11, 2014, Paper No. A-1-4

M. Wild, S. Tenbohlen, B. Quak
Comparison of Partial Discharge Behavior with Alternating Current and Damped Alternating Current at Different Frequencies.
CMD 2014, International Conference on Condition Monitoring and Diagnosis, Jeju, Korea, September 21-25, 2014, Paper No. OD2-03, P. 513-516

M. Wild, S. Tenbohlen, E. Gulski, R. Jongen
On-site Testing and Diagnosis of Distribution and Transmission Power Cables Using Damped AC Voltages.
CMD 2014, International Conference on Condition Monitoring and Diagnosis, Jeju, Korea, September 21-25, 2014, Paper No. PD-33, P. 722-725

M. Wild, S. Tenbohlen, E. Gulski, R. Jongen, J. Erbrink
Degradation Effects and Diagnosis of On-load Tap Changer in Power Transformers.
CMD 2014, International Conference on Condition Monitoring and Diagnosis, Jeju, Korea, September 21-25, 2014, Paper No. PB-32, P. 942-945

M. Siegel, S. Tenbohlen
Comparison between Electrical and UHF PD Measurement concerning Calibration and Sensitivity for Power Transformers.
CMD 2014, International Conference on Condition Monitoring and Diagnosis, Jeju, Korea, September 21-25, 2014, Paper No. OB1-02

M. Siegel, S. Tenbohlen
Design of an Oil-filled GTEM Cell for the Characterization of UHF PD Sensors.
CMD 2014, International Conference on Condition Monitoring and Diagnosis, Jeju, Korea, September 21-25, 2014, Paper No. PB-31

S. Burow, U. Straumann, W. Köhler, S. Tenbohlen
New Methods of Damping Very Fast Transient Overvoltages in Gas-Insulated Switchgear.
IEEE Transactions on Power Delivery, Vol. 29, No. 5, October 2014, pp. 2332-2339

M. Nemati, M. Imran, H. Müller, M. Braun, S. Tenbohlen
Frequency and Voltage Control in Microgrids: Modeling and Simulations in Islanded Mode.
ISGT 2014, IEEE PES Innovative Smart Grid Technologies Europe, Istanbul, Turkey, 12.-15. Oktober 2014, Paper No. 556

- M. Nemati, S. Eberlein, L. Tao, H. Müller, M. Braun, S. Tenbohlen
Optimale Einsatzplanung dezentraler Anlagen in Mikrostromnetzen mittels genetischem Algorithmus.
 VDE-Kongress „Smart Cities – intelligente Lösungen für das Leben in der Zukunft“,
 Frankfurt, 20.-21. Oktober 2014, Beitrag Nr. P12.4
- M. Brunner, I. Schäfer, K. Rudion, S. Tenbohlen
Auswirkungen unterschiedlicher Jahreszeiten auf den Beitrag von Wärmepumpen zur Spannungshaltung.
 VDE-Kongress „Smart Cities – intelligente Lösungen für das Leben in der Zukunft“,
 Frankfurt, 20.-21. Oktober 2014, Beitrag Nr. 4.2.1
- G. Walker, A.-K. Krauss, S. Eilenberger, W. Schweinfurt, S. Tenbohlen
Entwicklung eines standardisierten Ansatzes zur Klassifizierung von Verteilnetzen.
 VDE-Kongress „Smart Cities – intelligente Lösungen für das Leben in der Zukunft“,
 Frankfurt, 20.-21. Oktober 2014, Beitrag Nr. 5.2.2
- A. Abdel-Majeed, S. Tenbohlen, K. Rudion
Modellierung eines dreiphasigen Zustandsschätzers mit Berücksichtigung des Neutralleiters.
 VDE-Kongress "Smart Cities - intelligente Lösungen für das Leben in der Zukunft",
 Frankfurt, 20.-21. Oktober 2014, Beitrag 6.2.3
- M. Beltle, M. Schühle, M. Siegel, S. Tenbohlen
Auswirkungen von Gleichströmen auf Leistungstransformatoren.
 6. ETG-Fachtagung Diagnostik elektrischer Betriebsmittel, Berlin, 25.-26. November 2014,
 Beitrag Nr. 1.3
- M. Beltle, S. Tenbohlen
Schwingungsmessung an Leistungstransformatoren.
 6. ETG-Fachtagung Diagnostik elektrischer Betriebsmittel, Berlin, 25.-26. November 2014,
 Beitrag Nr. P1.4
- F. Vahidi, S. Tenbohlen
Statistical Failure Analysis of European Substation Transformers.
 6. ETG-Fachtagung Diagnostik elektrischer Betriebsmittel, Berlin, 25.-26. November 2014,
 Beitrag Nr. P1.2
- M. Wild, S. Tenbohlen, B. Quak
Vergleich des Teilentladungsverhaltens zwischen AC und DAC bei verschiedenen Frequenzen.
 6. ETG-Fachtagung Diagnostik elektrischer Betriebsmittel, Berlin, 25.-26. November 2014,
 Beitrag Nr. 7.4
- M. Siegel, M. Beltle, S. Tenbohlen
Aufbau einer ölgefüllten GTEM-Zelle zur Vermessung der Empfindlichkeit von Sensoren zur UHF-Teilentladungsmessung.
 6. ETG-Diagnostik-Fachtagung 2014, Berlin, 25.-26. November 2014, Beitrag Nr. P3.6
- U. Schichler, W. Koltunowicz, et. al., S. Tenbohlen (CIGRE WG D1.03 / TF 09)
Risk Assessment on Defects in GIS based on PD Diagnostics.
 6. ETG-Diagnostik-Fachtagung 2014, Berlin, 25.-26. November 2014, Beitrag Nr. 0.1
- M. Siegel, S. Hägele, M. Beltle, S. Tenbohlen
Empfindlichkeitsvergleich von elektrischer und UHF-Teilentladungsmessung zur Diagnose von Leistungstransformatoren.
 6. ETG-Diagnostik-Fachtagung 2014, Berlin, 25.-26. November 2014, Beitrag Nr. 0.3

P. Arnold, S. Tenbohlen, M. Hering, U. Riechert
Detektion freibeweglicher, leitfähiger Partikel in SF6 unter Gleichspannung.
6. ETG-Diagnostik-Fachtagung 2014, Berlin, 25.-26. November 2014, Beitrag Nr. 6.1

J. Smajic, A. Shoory, S. Burow, W. Holaus, U. Riechert, S. Tenbohlen
Simulation-Based Design of HF Resonators for Damping Very Fast Transients in GIS.
IEEE Transactions on Power Delivery, Vol. 29, No. 6, December 2014, pp. 2528-2533

J. Hohloch, S. Tenbohlen and W. Köhler, "RF coupling between high-voltage and low-voltage systems on a system and component level," 2014 International Symposium on Electromagnetic Compatibility, Tokyo, Tokyo, 2014, pp. 473-476.

D. Schneider, M. Böttcher, S. Tenbohlen and W. Köhler, "Estimation of radiated emissions of an automotive HV-inverter in a distributed system," 2014 International Symposium on Electromagnetic Compatibility, Tokyo, Tokyo, 2014, pp. 457-460.

2015

L. Rupp, M. Brunner, S. Tenbohlen
Einfluss dezentraler Wärmepumpen auf die Netzausbaukosten des Niederspannungsnetzes.
IEEE Power and Energy Summit (PESS) 2015, Dortmund, 13.-14. Januar 2015

P. Hillenbrand, S. Tenbohlen
Ursachen leitungsgebundener Störungen eines KFZ-Inverters im CISPR25-Komponententest.
Elektrotechnik & Informationstechnik, Heft 3.2015, S. 149-154, Springer Verlag, Wien

M. Nemati, T. Zöllner, S. Tenbohlen, L. Tao, H. Müller, M. Braun
Optimal Energy Management System for Future Microgrids with Tight Operating Constraints.
12th Int. Conference on the European Energy Market (EEM), Lissabon, Portugal, May 19-22, 2015, session S20

M. Brunner, K. Rudion, S. Tenbohlen
Voltage Support in Distribution Grids Using Heat Pumps.
CIRED 2015, 23rd International Conference and Exhibition on Electricity Distribution, Lyon, Frankreich, June 15-18, 2015, Paper No. 1303

G. Walker, H. Nägele, F. Kniehl, A. Probst, M. Brunner, S. Tenbohlen
Application of Cluster Reference Grids For An Optimized Grid Simulation.
CIRED 2015, 23rd International Conference and Exhibition on Electricity Distribution, Lyon, Frankreich, June 15-18, 2015, Paper No. 0753

C. Kattmann, K. Rudion, S. Tenbohlen
Clustering of Smart Meter Data for Data Compression and Fast Power Flow Computation.
CIRED 2015, 23rd International Conference and Exhibition on Electricity Distribution, Lyon, Frankreich, June 15-18, 2015, Paper No. 1298

D. Schneider, M. Beltle, M. Siegel, S. Tenbohlen, W. Koehler
Radiated Emissions of an Electric Drive System Estimated on a Bench Using Disturbance Currents and Transfer Functions.
IEEE Transactions on EMC, Vol. 57, No. 3, June 2015, pp. 311-321,
doi: 10.1109/TEM.2015.2401735

M. Nemati, K. Benimmar, S. Tenbohlen, L. Tao, H. Müller, M. Braun
Optimization of microgrids short term operation based on an enhanced genetic algorithm.
IEEE PowerTech conference, Eindhoven, Niederlande, June 29 - July 2, 2015,
Paper No. 476823

S. Eilenberger, D. Groß, K. Rudion, S. Tenbohlen, I. Berber
Modern Voltage Regulation Methods for Network Planning and Operation in Low Voltage Grids.
PowerTech 2015, Towards Future Power Systems and Emerging Technologies,
Eindhoven, Niederlande, June 29 - July 2, 2015, Paper No. 474136

C. Suttner, S. Tenbohlen, W. Ebbinghaus
Impact of Rogowski Sensors on the EMC performance of medium voltage power substations.
Joint IEEE International Symposium on Electromagnetic Compatibility and EMC Europe,
Dresden, August 16-22, 2015, Paper ID 5141, pp. 203-208

P. Hillenbrand, C. Keller, S. Spanos, S. Tenbohlen
Understanding Conducted Emissions from an Automotive Inverter Using a Common-Mode Model.
Joint IEEE International Symposium on Electromagnetic Compatibility and EMC Europe,
Dresden, August 16-22, 2015, Paper ID 5182, pp. 685-690

M. Djamali, S. Tenbohlen
A Dynamic Top Oil Temperature Model for Power Transformers with Consideration of the Tap Changer Position.
19th International Symposium on High Voltage Engineering, ISH 2015, Pilsen,
Tschechien, August 23-28, 2015, Conference Proceedings Paper No. 273

M. Djamali, S. Tenbohlen, G. Walker
Assessment of the Dynamic Overload Capability of Distribution Transformers.
19th International Symposium on High Voltage Engineering, ISH 2015, Pilsen,
Tschechien, August 23-28, 2015, Conference Proceedings Paper No. 275

M. Beltle, S. Tenbohlen
Diagnostic Interpretation of Mechanic Oscillations of Power Transformers.
19th International Symposium on High Voltage Engineering, ISH 2015, Pilsen,
Tschechien, August 23-28, 2015, Conference Proceedings Paper No. 508

M. Beltle, M. Schühle, S. Tenbohlen
Influences of Direct Currents on Power Transformers Caused by AC - HVDC Interactions in Hybrid Grids.
19th International Symposium on High Voltage Engineering, ISH 2015, Pilsen,
Tschechien, August 23-28, 2015, Conference Proceedings Paper No. 300

F. Vahidi, S. Tenbohlen, M. Roesner, Ch. Perrier, T. Stirl
The influence of moisture during the electrical conductivity measurement on the high density impregnated pressboard.
19th International Symposium on High Voltage Engineering, Pilsen, Tschechien, August
23-28, 2015, Conference Proceedings Paper No. 386

A. Abdel-Majeed, S. Tenbohlen, K. Rudion
Effects of State Estimation Accuracy on the Voltage Control of Low Voltage Grids.
2015 International Symposium on Smart Electric Distribution Systems and Technologies
(EDST) / CIGRE SC C6 Colloquium, Vienna, Austria - September 8-11, 2015, paper in
session SS02

M. Beltle, S. Tenbohlen
Power Transformer Diagnosis based on Mechanical Oscillations.
Cigré SC A2 Colloquium 2015, Shanghai, China, Sept. 20-25, 2015, Paper No. FP0669

M. Siegel, S. Tenbohlen, S. Coenen, B. Dolata, G. Luna, S. Louise
Practical Sensitivity of online UHF PD Monitoring on Large Power Transformers.
CIGRE SC A2 COLLOQUIUM 2015, Shanghai, China, Sept. 20-25, 2015, Paper No. FP0696

S. Tenbohlen, M. Djamali
A Dynamic Top Oil Temperature Model for Online Assessment of Overload Capability of Power Transformers.
Cigre SC A2 Colloquium 2015 with the participation of SC A3 & SC B3, Shanghai, China, Sept. 20-25, 2015, Conference Proceedings Paper No. FP0672

S. Tenbohlen, J. Jagers, G. Bastos, B. Desai, B. Diggin, J. Fuhr, J. Gebauer, M. Krüger, J. Lapworth, P. Manski, A. Mikulecky, P. Müller, C. Rajotte, T. Sakai, Y. Shirasaka, F. Vahidi
Development and results of a worldwide transformer reliability survey.
CIGRE SC A2 COLLOQUIUM 2015, Shanghai, China, Sept. 20-25, 2015, Paper No. FP0684

A. Abdel-Majeed, D. Groß, K. Rudion, S. Tenbohlen
Optimale Integration von erneuerbaren Energien mittels Zustandsschätzung in Verteilnetzen.
Ingenieurspiegel, Heft 4/2015, S. 44-46

M. H. Samimi, S. Tenbohlen, A. A. Shayegani-Akmal, H. Mohseni
Effect of Terminating and Shunt Resistors on the FRA Method Sensitivity.
International Power System Conference, Teheran, Iran, November 23-25, 2015

T. Stirl, J. Harthun, C. Perrier, F. Devaux, C. Carlon, S. Tenbohlen, N. Schmidt
Eco-friendly Green Power Transformers.
Matpost 2015, Lyon, France, 2015

Krüger, J. Lapworth, P. Manski, A. Mikulecky, P. Müller, C. Rajotte, T. Sakai, Y. Shirasaka, F. Vahidi
Transformer reliability survey.
Brochure 642, WG A2.37 (CIGRE), December 2015

2016

S. Tenbohlen, J. Jagers, G. Bastos, B. Desai, B. Diggin, J. Fuhr, J. Gebauer, M. Krüger, J. Lapworth, P. Manski, A. Mikulecky, P. Müller, C. Rajotte, T. Sakai, Y. Shirasaka, F. Vahidi
Transformer reliability survey.
Electra, No. 284, February 2016

C. Suttner, W. Ebbinghaus, S. Tenbohlen
Alternatives Verfahren für die Störfestigkeitsprüfung von elektronischen Messwandlern in Schaltanlagen.
EMV 2016, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Düsseldorf, 23.-25. Februar 2016, Tagungsband, S. 37-44

P. Hillenbrand, S. Tenbohlen
Vergleich der leitungsgebundenen Störemissionen und des Wirkungsgrads von Silizium IGBTs mit Siliziumkarbid MOSFETs als Leistungsschalter in Traktionsinvertern.
EMV 2016, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Düsseldorf, 23.-25. Februar 2016, Tagungsband, S. 241-248

- P. Hillenbrand, S. Tenbohlen
Einfluss der Kabelschirmung der Batterie- und Motorkabel eines Traktionsinverters auf die Störspannung an der Bordnetznachbildung.
 EMV 2016, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Düsseldorf, 23.-25. Februar 2016, Tagungsband, S. 481-488
- M. Beltle, M. Schühle, S. Tenbohlen, U. Sundermann
Das Verhalten von Leistungstransformatoren bei Beanspruchung mit Gleichströmen.
 Stuttgarter Hochspannungssymposium 2016, 1.-2. März 2016, Tagungsband, S. 59-69
- M. Siegel, S. Coenen, S. Tenbohlen
Kalibrierung von UHF TE-Messsystemen an Leistungstransformatoren.
 Stuttgarter Hochspannungssymposium 2016, 1.-2. März 2016, S. 253-263
- M. Brunner, K. Rudion, S. Tenbohlen
PV Curtailment Reduction with Smart Homes and Heat Pumps.
 IEEE Energycon, Leuven, Belgien, April 4-8, 2016
- H. Nägele, G. Walker, M. Brunner, K. Rudion
Utilizing Flexible Loads and Battery Storages in a Cluster of Households with Virtual Metering.
 IEEE Energycon, Leuven, Belgien, April 4-8, 2016
- G. Walker, J. M. Fernandez, Q. López Mestre, S. Tenbohlen
A proposal for charging infrastructure with phase balancing capabilities.
 IEEE Energycon, Leuven, Belgien, April 4-8, 2016
- G. Walker, S. Tenbohlen
Self-calibrating decentralized reactive power management for charging infrastructure.
 IEEE Energycon, Leuven, Belgien, April 4-8, 2016
- S. D. Mitchell, M. Siegel, M. Beltle, S. Tenbohlen
Discrimination of partial discharge sources in the UHF domain.
 IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 23, No. 2, April 2016, pp. 1068-1075
- U. Schichler, W. Koltunowicz, D. Gautschi, A. Girodet, H. Hama, J. Lopez-Roldan, S. Neuhold, C. Neumann, S. Okabe, J. Pearson, R. Pietsch, U. Riechert, S. Tenbohlen
UHF partial discharge detection system for GIS: Application guide for sensitivity verification.
 Cigre Technical Brochure 654, Paris, April 2016
- S. Tenbohlen, S. Coenen, M. Djamali, A. Mueller, M. H. Samimi, M. Siegel
Diagnostic Measurements for Power Transformers.
 Energies 2016, Vol. 9, Issue 5, No. 347; doi:10.3390/en9050347
- M. H. Samimi, S. Tenbohlen, A. A. Shayegani Akmal, H. Mohseni
Using the Complex Values of the Frequency Response to Improve Power Transformer Diagnostics.
 Proceedings of 24th Iranian Conference on Electrical Engineering (ICEE2016), May 10-12, 2016, Shiraz, Iran, pp. 1689-1693

M. H. Samimi, S. Tenbohlen, A. A. Shayegani Akmal, H. Mohseni
Effect of Different Connection Schemes, Terminating Resistors and Measurement Impedances on the Sensitivity of the FRA Method.

Accepted for publication in IEEE Transactions on Power Delivery,

Published online May 24, 2016,

DOI: 10.1109/TPWRD.2016.2572160

<http://ieeexplore.ieee.org/document/7478124/?arnumber=7478124>

U. Schichler, W. Koltunowicz, D. Gautschi, A. Girodet, H. Hama, J. Lopez-Roldan, S. Neuhold, C. Neumann, S. Okabe, J. Pearson, R. Pietsch, U. Riechert, S. Tenbohlen
UHF partial discharge detection system for GIS: Application guide for sensitivity verification.

IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 23, No. 3, June 2016, pp. 1313-1321

M. Beltle, S. Tenbohlen

Power transformer diagnosis based on mechanical oscillations due to AC and DC currents.

IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 23, No. 3, June 2016, p. 1515-1522

M. Siegel, M. Beltle, S. Tenbohlen

Characterization of UHF PD Sensors for Power Transformers Using an Oil-filled GTEM Cell.

IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 23, No. 3, June 2016, pp. 1580-1588

U. Schichler, W. Koltunowicz, D. Gautschi, A. Girodet, H. Hama, J. Lopez-Roldan, S. Neuhold, C. Neumann, S. Okabe, J. Pearson, R. Pietsch, U. Riechert, S. Tenbohlen
UHF partial discharge detection system for GIS: Application guide for sensitivity verification.

Electra, No. 286, June 2016

J. Lapworth, P. Picher, N. Schmidt, S. Tenbohlen, et al.

Transformer Thermal Modelling.

Cigre Technical Brochure 659, Paris, June 2016

M. Siegel, S. Tenbohlen

Calibration of UHF Partial Discharge Measurement for Power Transformers and a Comparison to the Calibration of Electrical PD Measurement.

IEEE Electrical Insulation Conference (EIC), Montréal, Qc, Canada, June 19-22, 2016, Session S22 Transformers

M. Djamali, S. Tenbohlen

Malfunction Detection of the Cooling System in Air-Forced Power Transformers Using Online Thermal Monitoring.

IEEE Transactions on Power Delivery,

Published online August 02, 2016,

DOI: 10.1109/TPWRD.2016.2597296

S. Coenen, M. Siegel, G. Luna, S. Tenbohlen

Parameters influencing Partial Discharge Measurements and their Impact on Diagnosis, Monitoring and Acceptance Tests of Power Transformers.

46. CIGRE Session, Paris, France, August 21-26, 2016, paper No. A2-111, 13 pages

- E. Gulski, W. Koltunowicz, T. Ariaans, G. Behrmann, R. Jongen, F. Garnacho, S. Kornhuber, S. Ohtsuka, F. Petzold, M. Sanchez-Uran, K. Siodla, S. Tenbohlen
Guidelines for partial discharge detection using conventional (IEC 60270) and unconventional methods.
Cigre Technical Brochure 662, Paris, August 2016
- J. Lapworth, P. Picher, N. Schmidt, S. Tenbohlen, et al.
Transformer Thermal Modelling.
Electra, No. 287, August 2016, pp. 48-55
- P. Hillenbrand, M. Böttcher, S. Tenbohlen, J. Hansen
Frequency Domain EMI-Simulation and Resonance Analysis of a DCDC-Converter.
EMC Europe 2016, Wroclaw, Polen, September 5-9, 2016, session OS5, Conference Proceedings, p. 176-181
- C. Suttner, W. Ebbinghaus, S. Tenbohlen
Alternative Coupling Method for Immunity Testing of Power Grid Protection Equipment.
EMC Europe 2016, Wroclaw, Polen, September 5-9, 2016, session OS7A, Conference Proceedings, p. 280-284
- S. Haegele, S. Tenbohlen, K. Rapp, S. Sbravati, R. Fritsche
Characterization of inhomogeneous field breakdown in natural ester liquid compared to mineral oil.
IEEE International Conference on High Voltage Engineering 2016 (ICHVE), September 19-22, 2016, Chengdu, China, Paper No. A-4-2
- S. Tenbohlen, M. Siegel, M. Beltle
Partial Discharge Monitoring of Power Transformers by UHF Sensors.
ARWtr2016 - Advanced Research Workshop on Transformers, La Toja Island, Spain, October 3-5, 2016, poster No. 2.2
- S. Tenbohlen, N. Schmidt, C. Breuer, S. Khandan, R. Lebreton
Optical and Numerical Investigation of Oil Flow Velocities Inside a Zigzag Cooled Winding Model.
ARWtr2016 - Advanced Research Workshop on Transformers, La Toja Island, Spain, October 3-5, 2016
- M. H. Samimi, S. Tenbohlen, A. A. Shayegani Akmal, H. Mohseni
Evaluation of Numerical Indices for the Assessment of Transformer Frequency Response.
IET Generation, Transmission & Distribution, Published online October 05, 2016,
DOI: 10.1049/iet-gtd.2016.0879
- P. Arnold, S. Tenbohlen, U. Riechert
PD characteristics of metallic protrusions in SF6-insulated coaxial electrode arrangements at DC stress.
IEEE Conference on Electrical Insulation & Dielectric Phenomena (CEIDP 2016), October 16-19, 2016, Toronto, Canada, Paper No. 3C-9, pp. 199-202
- S. Haegele, S. Tenbohlen, K. Rapp, S. Sbravati
Comparative Study on Inhomogeneous Field Breakdown in Natural Ester Liquid and Mineral Oil.
IEEE Conference on Electrical Insulation & Dielectric Phenomena (CEIDP 2016), October 16-19, 2016, Toronto, Canada, Paper No. 4B-10, pp. 375-379

M. H. Samimi, S. Tenbohlen, A. A. Shayegani Akmal, H. Mohseni
Dismissing Uncertainties in the FRA Interpretation.
Accepted for publication in IEEE Transactions on Power Delivery,
Published online October 20, 2016,
DOI: 10.1109/TPWRD.2016.2618601

E. Gulski, W. Koltunowicz, T. Ariaans, G. Behrmann, R. Jongen, F. Garnacho, S. Kornhuber, S. Ohtsuka, F. Petzold, M. Sanchez-Uran, K. Siodla, S. Tenbohlen
Guidelines for partial discharge detection using conventional (IEC 60270) and unconventional methods.
Electra, No. 288, October 2016, pp. 24-29

M. H. Samimi, P. Hillenbrand, S. Tenbohlen, A. A. Shayegani Akmal, H. Mohseni
Simulation of the Transformer Frequency Response Using a 3D Model.
International Power System Conference (PSC2016), Oct. 24-26, 2016, Tehran, Iran

M. Beltle, M. Schühle, S. Tenbohlen, U. Sundermann
Betrachtung galvanisch eingekoppelter Gleichströme im Übertragungsnetz und deren Auswirkungen auf Leistungstransformatoren.
VDE-Fachtagung Hochspannungstechnik 2016, Berlin, 14.-16. November 2016, S. 672-677

S. Haegele, S. Tenbohlen, K. Rapp, S. Sbravati
Vergleichsstudie zur Durchschlagsspannung von variablen, inhomogenen Elektrodenanordnungen in natürlichem Ester und Mineralöl.
VDE-Fachtagung Hochspannungstechnik 2016, Berlin, 14.-16. November 2016, Session: Transformator-Werkstoffe 2, S. 585-589

M. Siegel, S. Tenbohlen
Vorschlag zur Kalibrierung der UHF Teilentladungsmessung an Leistungstransformatoren.
VDE-Fachtagung Hochspannungstechnik 2016, Berlin, 14.-16. November 2016, Session: Transformer Diagnoseverfahren 2, S. 660-665

M. Siegel, S. Tenbohlen, S. Coenen
Kombinierter in-Öl Sensor zur akustischen und UHF TE-Messung für das Monitoring von Leistungstransformatoren
VDE-Fachtagung Hochspannungstechnik 2016, Berlin, 14.-16. November 2016, Poster P1.5

C. Suttner, W. Ebbinghaus, S. Tenbohlen
Untersuchung des Übertragungsverhaltens von Kleinsignal-Wandlern für Schutz- und Messzwecke.
VDE-Fachtagung Hochspannungstechnik 2016, Berlin, 14.-16. November 2016, Poster No. P4.1

C. Kattmann, S. Tenbohlen, M. Siegel, G. Walker
Kontinuierliche, breitbandige Analyse der Spannungsqualität bis 150 kHz
VDE-Fachtagung Hochspannungstechnik 2016, Berlin, 14.-16. November 2016, Poster P3.9

F. Vahidi, K. Rapp, J. Luksich, S. Tenbohlen
Comparative Study on Impact of Cellulose Particles on Electrical Conductivity of Mineral Oil and Natural Ester.
VDE-Fachtagung Hochspannungstechnik 2016, Berlin, 14.-16. November 2016, S. 412-417

- B. Adam, S. Tenbohlen
Vergleich von Merkmalen und Klassifikatoren für eine automatisierte Auswertung von Teilentladungsmustern.
 VDE-Fachtagung Hochspannungstechnik 2016, Berlin, 14.-16. November 2016, S. 653-659
- M. Schühle, M. Bettle, S. Tenbohlen, D. Bonmann
Entwicklung eines Simulationsmodells für Leistungstransformatoren zur Betrachtung magnetischer Flüsse bei Sättigung.
 VDE-Fachtagung Hochspannungstechnik 2016, Berlin, 14.-16. November 2016, S. 528-533
- M. H. Samimi, S. Tenbohlen
The Numerical Indices Proposed for the Interpretation of the FRA Results: a Review.
 VDE-Fachtagung Hochspannungstechnik 2016, Berlin, 14.-16. November 2016, S. 377-383
- Z. Radakovic, U. Radoman, D. Vukotic, S. Tenbohlen
Dynamic top oil thermal model of oil-immersed power transformers with tap changer.
 VDE-Fachtagung Hochspannungstechnik 2016, Berlin, 14.-16. November 2016, S. 516-521
- S. Tenbohlen, F. Vahidi, J. Jagers
A Worldwide Transformer Reliability Survey.
 VDE-Fachtagung Hochspannungstechnik 2016, Berlin, 14.-16. November 2016, S. 14-19
- S. Tenbohlen, M. Djamali
Assessment of Overload Capability of Power Transformers by online Monitoring.
 8th CIGRE Workspot "International workshop on Power Transformers, Equipment, Substations and Materials", Recife, Brazil, November 20-23, 2016
- S. Tenbohlen, N. Schmidt, C. Breuer, R. Lebreton
Determination of Hot Spots in Transformer Windings by CDF-modelling.
 8th CIGRE Workspot "International workshop on Power Transformers, Equipment, Substations and Materials", Recife, Brazil, November 20-23, 2016
- S. Tenbohlen, J. Jagers, G. Bastos, B. Desai, B. Diggin, J. Fuhr, J. Gebauer, M. Krüger, J. Lapworth, P. Manski, A. Mikulecky, P. Müller, C. Rajotte, T. Sakai, Y. Shirasaka, F. Vahidi
Development and Results of a Worldwide Transformer Reliability Survey.
 8th CIGRE Workspot "International workshop on Power Transformers, Equipment, Substations and Materials", Recife, Brazil, November 20-23, 2016
- M. H. Samimi, S. Tenbohlen, A. A. Shayegani Akmal, H. Mohseni
Improving the numerical indices proposed for the FRA interpretation by including the phase response.
 International Journal of Electrical Power & Energy Systems, Dec. 2016, Vol. 83, pp. 585-593
- M. H. Samimi, A. A. Shayegani Akmal, H. Mohseni, S. Tenbohlen
Detection of transformer mechanical deformations by comparing different FRA connections.
 International Journal of Electrical Power & Energy Systems, March 2017, Vol. 86, pp. 53-60

G. Walker, A. Hettrich and S. Tenbohlen,
Grid compatible flexibility management with a Quota-based aggregator of electric vehicles using a split charging approach in residential grids
2016 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), Ljubljana, Slovenia, 2016, pp. 1-6.
doi: 10.1109/ISGTEurope.2016.7856273

2017

S. Tenbohlen, C. Breuer, F. Devaux, R. Lebreton, N. Schmidt, T. Stirl
Evaluation of the thermal performance of transformer windings by numerical investigations and measurements.
Cigre Science and Engineering, Vol. 7, February, 2017

M. H. Samimi, S. Tenbohlen
Detection of transformer mechanical deformations by comparing different FRA connections.
International Journal of Electrical Power & Energy Systems, Volume 86, March 2017, pp. 53-60

Manuel Wild, Stefan Tenbohlen, Edward Gulski, Rogier Jongen,
Basic Aspects of Partial Discharge On-site Testing of Long Length Transmission Power Cables
IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 24, Issue 2, pp. 1077-1087, April 2017

S. Khandan, S. Tenbohlen, C. Breuer, R. Lebreton
Numerical Investigation of Fluid Flow and Temperature Distribution on Power Transformer Windings Using Open Foam.
19th International Conference on Computational Fluid Dynamics, ICCFD 2017, Berlin, May 21-22, 2017, Proceedings of the ICCFD, Paper No. 07.

F. Vahidi, S. Haegele, S. Tenbohlen, K. Rapp, A. Sbravati
Study on Moisture Influence on Electrical Conductivity of Natural Ester Fluid and Mineral Oil.
Electrical Insulation Conference (EIC), Baltimore, MD, USA, June 11-14, 2017, Conference Proceedings, page 290-293

C. Kattmann, K. Rudion, S. Tenbohlen
Detailed Power Quality Measurement of Electric Vehicle Charging Infrastructure.
24th International Conference and Exhibition on Electricity Distribution – CIRED, Glasgow, UK, June 12-15, 2017, paper No. 0834

C. Kattmann, S. Tenbohlen
Visualization of Power Quality Data.
12th IEEE PES PowerTech Conference, June 18-22, 2017, Manchester, UK, paper ID 703, DOI: 10.1109/PTC.2017.7981158

S. Khandan, S. Tenbohlen, C. Breuer, R. Lebreton
CFD Study of Fluid Flow and Temperature Distributions in a Power Transformer Winding.
19th IEEE International Conference on Dielectric Liquids (ICDL), Manchester, UK, June 25-29, 2017, Proceedings of the ICDL, Paper No. 1187

S. Haegele, F. Vahidi, S. Tenbohlen, K. Rapp, A. Sbravati
Investigation of Interfacial Surface Creep Breakdown at Oil-Pressboard Interfaces in Natural Ester Liquid and Mineral Oil.
19th IEEE International Conference on Dielectric Liquids (ICDL), June 25-29, 2017, Manchester, UK, paper No. 1242

F. Vahidi, S. Haegele, S. Tenbohlen
A Comparison of Oil-impregnated Pressboard Electrical Conductivity Behavior for Two Different High Density Pressboards.
19th IEEE International Conference on Dielectric Liquids (ICDL), June 25-29, 2017, Manchester, UK, paper No. 1328

F. Vahidi, S. Haegele, S. Tenbohlen, K. Rapp, A. Sbravati
Influence of Cellulose Contamination Level on Electrical Conductivity of Natural and Synthetic Ester Liquids Compared to Mineral Oil.
19th IEEE International Conference on Dielectric Liquids (ICDL), June 25-29, 2017, Manchester, UK, paper No. 1268

M. H. Samimi, S. Tenbohlen
FRA interpretation using numerical indices: State-of-the-art.
International Journal of Electrical Power & Energy Systems, Volume 89, July 2017, pp. 115-125

M. H. Samimi, S. Tenbohlen, A. A. S. Akmal, H. Mohseni
Effect of Different Connection Schemes, Terminating Resistors and Measurement Impedances on the Sensitivity of the FRA Method.
IEEE Trans. On Power Delivery, Volume 32, No. 4, August 2017, pp. 1713-1720

S. Haegele, S. Tenbohlen, E. Junge, M. Konermann
Investigation of Low Temperature and Electric Stress Behaviour of Different Natural Ester Liquids.
20th International Symposium on High Voltage Engineering (ISH 2017), August 28–September 01, 2017, Buenos Aires, Argentina, paper No. 643

S. Tenbohlen, F. Vahidi, J. Jagers
Results of a Standardized Survey about the Reliability of Power Transformers.
20th International Symposium on High Voltage Engineering (ISH 2017), August 28–September 01, 2017, Buenos Aires, Argentina, paper No. 598

M. Beltle, M. Schühle, S. Tenbohlen
Galvanic Coupling of Direct Currents in Transmission Grids and its Effects on Power Transformers.
20th International Symposium on High Voltage Engineering (ISH 2017), August 28–September 01, 2017, Buenos Aires, Argentina, paper No. 576

P. Hillenbrand, M. Beltle, S. Tenbohlen, S. Mönch
Sensitivity Analysis of Behavioral MOSFET Models in Transient EMC Simulation.
International Symposium on Electromagnetic Compatibility and EMC Europe, Angers, September 4-8, 2017, Session O_We_B2

P. Hillenbrand, M. Beltle, S. Tenbohlen, J. Hansen
Transient Co-Simulation of Electromagnetic Emissions caused by a SiC Traction Inverter.
International Symposium on Electromagnetic Compatibility and EMC Europe, Angers, September 4-8, 2017, Session O_Th_C2, Paper ID 136

F. Vahidi, S. Tenbohlen, K. Rapp, A. Sbravati
Electrical Conductivity of Oil and Oil-impregnated Pressboard dependent on Aging Byproducts.
International Symposium on Electrical Insulating Materials (ISEIM), Toyohashi City, Japan, September 12-15, 2017, DOI: 10.23919/ISEIM.2017.8166589

S. Tenbohlen, M. Beltle, M. Siegel
PD Monitoring of Power Transformers by UHF Sensors.
International Symposium on Electrical Insulating Materials (ISEIM), Toyohashi City, Japan, September 12-15, 2017, DOI: 10.23919/ISEIM.2017.8088747

S. Tenbohlen, J. Jagers, F. Vahidi
Standardized survey of transformer reliability: On behalf of CIGRE WG A2.37.
International Symposium on Electrical Insulating Materials (ISEIM), Toyohashi City, Japan, September 12-15, 2017, DOI: 10.23919/ISEIM.2017.8166559

P. Hillenbrand, S. Tenbohlen, J. Hansen, W. Pfaff
EMV-Simulation der EMI eines Traktionsinverters in einer CISPR25 Messumgebung.
7. GMM Fachtagung „EMV in der Kfz-Technik“, Wolfsburg, 20.-21.09.2017, Präsentation in Session 3: EMV von Elektrofahrzeugen

C. Kattmann, M. Beltle, S. Tenbohlen
Kontinuierliche Messung und Auswertung der Spannungsqualität bis 150 kHz am Beispiel einer Ladestation für Elektrofahrzeuge.
Oberlausitzer Energie-Symposium 2017, 25.-26. Oktober 2017, Zittau

S. Haegele, S. Tenbohlen, E. Junge, M. Konermann
Einsatz natürlicher Ester in Verteiltransformatoren.
Internationaler ETG Kongress 2017, 28.-29. November 2017, Bonn, Beitrag im Expertenforum 3 – HV & MV Netze

C. Suttner, W. Ebbinghaus, S. Tenbohlen
Transiente Störgrößeneinkopplung auf Schutzsysteme mit Kleinsignalwandlern in Mittelspannungsschaltanlagen.
Internationaler ETG Kongress 2017, 28.-29. November 2017, Bonn, Poster 3.14

M. Djamali, S. Tenbohlen
A validated online algorithm for detection of fan failures in oil immersed power transformers.
International Journal of Thermal Sciences, Elsevier, Volume 116, 2017, pp. 224-233
DOI: 10.1016/j.ijthermalsci.2017.02.012

P. Picher, S. Tenbohlen, M. Lachmann, A. Scardazzi, P. Pavel
Current state of transformer FRA interpretation.
Procedia Engineering, Volume 202, 2017, Pages 3-12

2018

M. Nemati, M. Braun, S. Tenbohlen
Optimization of unit commitment and economic dispatch in microgrids based on genetic algorithm and mixed integer linear programming.
Applied Energy, Volume 210, January 2018, pp 944-963
DOI: 10.1016/j.apenergy.2017.07.007

- S. Tenbohlen, N. Schmidt, S. Khandan, C. Breuer, R. Lebreton
Investigation of Thermal Behavior of an Oil-Directed Cooled Transformer Winding.
 IEEE Transactions on Power Delivery, Vol. 33, Issue 3, June, 2018, pp. 1091-1098,
 available online, DOI.10.1109/TPWRD.2017.2711786.
- M. Djamali, S. Tenbohlen, E. Junge, M. Konermann
Real-Time Evaluation of the Dynamic Loading Capability of Indoor Distribution Transformers.
 IEEE Transactions on Power Delivery, Vol. 33, Issue 3, June, 2018, pp. 1134-1142, DOI.
 10.1109/TPWRD.2017.2728820.
- S. Tenbohlen, M. Beltle, M. Siegel
Condition Assessment of Power Transformers by UHF PD Monitoring.
 Proceedings of TechCon SE Asia, Manila, June, 2018.
- M. H. Samimi, S. Tenbohlen, A. A. S. Akmal and H. Mohseni
Dismissing Uncertainties in the FRA Interpretation.
 IEEE Transactions on Power Delivery, Vol. 33, No. 4, Aug. 2018, pp. 2041-2043, DOI:
 10.1109/TPWRD.2016.2618601
- M. H. Samimi and S. Tenbohlen
Using the Temperature Dependency of the FRA to Evaluate the Pressure of the Transformer Press Ring.
 IEEE Transactions on Power Delivery, Vol. 33, No. 4, Aug. 2018, pp. 2050-2052, DOI:
 10.1109/TPWRD.2017.2691541
- J. Du, W. Chen, L. Cui, Z. Zhang, S. Tenbohlen
Investigation on the Propagation Characteristics of PD-induced Electromagnetic Waves in an actual 110kV Power Transformer and its Simulation Results.
 IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 25, No. 5, Oct. 2018, pp.
 1941-1948, DOI: 10.1109/TDEI.2018.007336
- D. Mueller, M. Beltle, S. Tenbohlen
Automatisierte Filteroptimierung für Hochvoltbordnetze basierend auf Schaltungssimulationen zur Störspannungsvorhersage.
 EMV 2018, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Düsseldorf, 20.-22. Februar 2018, Tagungsband, S. 208-215
- M. Haug, M. Beltle, S. Tenbohlen
Grundlegende Betrachtungen der Kopplungsmechanismen möglicher Störgrößen für induktive KFZ-Ladesysteme.
 EMV 2018, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Düsseldorf, 20.-22. Februar 2018, S. 548 – 555.
- S. Haegele, S. Tenbohlen, D. Perrino, M. Konermann
Feldstudie für den flächendeckenden Einsatz natürlicher Ester in Verteiltransformatoren.
 Stuttgarter Hochspannungssymposium, Stuttgart, 6.-7. März 2018
- M. Tahir, S. Miyazaki, S. Tenbohlen
Development and Optimization of Methods for Objective Interpretation of Frequency Response Analysis of Power Transformers.
 85th International Conference of Doble Clients, 2018 Boston, USA, April 8-13 2018.
- S. Tenbohlen, M. Tahir, E. Rahimpour, B. Poulin, S. Miyazaki
A New Approach for High Frequency Modelling of Disc Windings.
 CIGRE Session 2018, Paris, France, paper No. A2-214.

S. Tenbohlen, C. Kattmann, T. Brügger, M. Siegel, M. Konermann, E. Junge, J. Christian
Power Quality Monitoring in Power Grids focusing on Accuracy of High Frequency Harmonics.

CIGRE Session 2018, Paris, France, paper No. C4-122.

S. Miyazaki, M. Tahir, S. Tenbohlen

Sensitivity of Connection Schemes for Detection of Axial Displacement of Transformer Winding by Frequency Response Analysis.

IEEE International Conference on High Voltage Engineering and Application (ICHVE 2018), Athens, Greece, September 10-13 2018, paper no. 148.

S. Miyazaki, Y. Mizutani, M. Tahir, S. Tenbohlen

Comparison of FRA Data measured by Different Instruments with Different Frequency Resolution.

IEEE International Conference on High Voltage Engineering and Application (ICHVE 2018), Athens, Greece, September 10-13 2018, paper no. 149.

S. Haegele, F. Vahidi, S. Tenbohlen, K. Rapp, A. Sbravati,

Lightning Impulse Withstand of Natural Ester Liquid.

Energies, Special Issue Engineering Dielectric Liquid Applications, July 2018, doi:10.3390/en11081964

D. Mueller, M. Beltle, S. Tenbohlen

Automated Filter Optimization for High-Voltage Cable Harness based on Circuit Simulations for Conducted Emissions Prediction.

EMC Europe 2018, International Symposium on Electromagnetic Compatibility, Amsterdam, The Netherlands, August 27-30, 2018, Session SS-09b, Conference Proceedings, p. 84-89

B. Adam, S. Tenbohlen

Classification of multiple PD Sources by Signal Features and LSTM Networks.

IEEE International Conference on High Voltage Engineering and Application (ICHVE 2018), Athens, Greece, September 10-13 2018, paper no. 170

S. Khandan, S. Tenbohlen

CFD Investigation of Temperature Distributions by Non-uniform Heat Losses inside Windings.

IEEE International Conference on High Voltage Engineering and Applications, ICHVE 2018, September 10-13, 2018, Athen.

B. Adam, M. Beltle, S. Tenbohlen

Klassifikation von TE-Messungen unter Ausnutzung des vollständigen Informationsgehalts.

Fachtagung VDE-Hochspannungstechnik 2018, 12.-14. November 2018, Berlin, Paper Nr. 409

P. Wenger, M. Beltle, S. Tenbohlen, U. Riechert

TE-Charakterisierung frei beweglicher Partikel in HVDC-GIS mittels UHF-Messtechnik und Hochgeschwindigkeitskamera-Aufnahmen.

Fachtagung VDE-Hochspannungstechnik 2018, 12.-14. November 2018, Berlin, S. 10-15

C. Suttner, W. Ebbinghaus, S. Tenbohlen

Störfestigkeitsprüfung von Netzschutzeinrichtungen mit passiven Kleinsignalwandlern.

Fachtagung VDE-Hochspannungstechnik 2018, 12.-14. November 2018, Berlin, Poster 5.1

M. Schühle, M. Beltle, S. Tenbohlen
Beeinflussung von induktiven Stromwandlern in Hoch- und Höchstspannungsnetzen durch parasitäre Gleichströme.
Fachtagung VDE-Hochspannungstechnik 2018, 12.-14. November 2018, Berlin, S. 791-796

M. Tahir, S. Tenbohlen, S. Miyazaki
Optimization of FRA by an Improved Numerical Winding Model: Disk Space Variation.
Fachtagung VDE-Hochspannungstechnik 2018, 12.-14. November 2018, Berlin, S. 545-550.

S. Khandan, S. Tenbohlen
CFD-Untersuchungen über den Einfluss unterschiedlicher Parameter auf das thermische Verhalten von Scheibenwicklungen in Leistungstransformatoren.
Fachtagung VDE-Hochspannungstechnik 2018, 12.-14. November 2018, Berlin.

D. Passow, M. Beltle, S. Tenbohlen, J. Hohloch, R. Grund
Modellierung und Aufbau eines kapazitiven Sensors zur Auskopplung von Teilentladungen (TE) an einer Kabelmuffe.
Fachtagung VDE-Hochspannungstechnik 2018, 12.-14. November 2018, Berlin, S. 87-92

T. Umemoto, S. Tenbohlen
Validations of Simulation of UHF Electromagnetic Wave Propagation in an Oil-filled Tank by Time-Domain Measurements
IET Generation Transmission & Distribution, November 2018, DOI: 10.1049/iet-gtd.2018.6173

T. Umemoto, S. Tenbohlen
Novel Simulation Technique of Electromagnetic Wave Propagation in the Ultra High Frequency Range within Power Transformers
Sensors 18(12), December 2018, DOI: 10.3390/s18124236

2019

S. Karambar, S. Tenbohlen
Study on Thermal Ageing Characteristics of Silicone Rubber and Pressboard in Mineral Oil.
Fachtagung VDE-Hochspannungstechnik 2018, 12.-14. November 2018, Berlin, Postersession - Isoliersysteme, Tagungsband, S. 642-647

M. Tahir, S. Tenbohlen
Towards Objective Interpretation of Frequency Response of Power Transformers.
International Transformer Conference (ITCE '19), Teheran, Iran, January 29-30, 2019

S. Tenbohlen, M. Siegel
UHF Partial Discharge Measurement for Acceptance Tests of Power Transformers.
International Transformer Conference (ITCE 2019), Teheran, January 29-30, 2019

S. Miyazaki, Y. Mizutani, M. Tahir and S. Tenbohlen
Influence of Employing Different Measuring Systems on Repeatability of Measurement in Frequency Response Analysis of Power Transformers.
IEEE Electrical Insulation Magazine, Vol. 35, No. 2, March/April 2019, pp. 27 – 33

- J. Bertelmann, M. Beltle, S. Tenbohlen, R. Eidher
Minimierung der Gleichtaktstörung in elektrischen Lenkungssystemen durch gegenphasiges Takten der Leistungshalbleiter.
 AmE 2019 Automotive meets Electronics, Dortmund, Deutschland, 12.-13. März 2019, S. 71-75
- D. Müller, K. Spanos, M. Beltle, S. Tenbohlen
Design of a Hybrid Common-Mode EMI Filter for Traction Inverters in Electrical Vehicle.
 International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management (PCIM), Nürnberg, Germany, May 7-9, 2019, pp. 638-642
- T. Umemoto, S. Tenbohlen
Validations of simulation of UHF electromagnetic wave propagation in an oil-filled tank by time-domain measurements.
 IET Generation, Transmission & Distribution, Vol. 13, No. 9, May 2019, pp. 1646-1652, DOI: 10.1049/iet-gtd.2018.6173
- S. Tenbohlen, M. Siegel, M. Beltle, S. Coenen
Calibration of UHF Partial Discharge Measurements for Power Transformers.
 HIGHVOLT KOLLOQUIUM 2019, Dresden, May 9-10, 2019
- S. Tenbohlen, M. Beltle, M. Siegel
Thermal Modelling and Overloading of Power Transformers.
 Proceedings of TechCon SE Asia 2019, Bangkok, Thailand, June 11-13, 2019
- S. Khandan, S. Tenbohlen
Transient Thermal Condition of Natural Oil-cooled Disc-type Winding.
 IEEE International Conference on Dielectric Liquids (ICDL), June 23-27, 2019, Roma, DOI: 10.1109/ICDL.2019.8796572
- C. P. Beura, M. Beltle, S. Tenbohlen
Attenuation of UHF Signals in a 420 kV Power Transformer based on Experiments and Simulation.
 21. International Symposium on High Voltage Engineering (ISH 2019), August 26-30, 2019, Budapest, Proceedings, Volume 2, pp. 1276-1285
- S. Karambar, S. Tenbohlen
Investigation of Ageing Characteristics of Silicone Rubber in Mineral Oil.
 21st International Symposium on High Voltage Engineering (ISH 2019), August 26-30, 2019, Budapest, Hungary, pp 582-591.
- S. Khandan, S. Tenbohlen
Investigation of Operational and Design Parameters Affecting the Thermal Behaviour of Disc-Type Winding.
 International Symposium on High Voltage Engineering (ISH 2019), August 26-30, 2019, Budapest, session S09, paper No. 838.
- M. Tahir, S. Tenbohlen, M. H. Samimi
Evaluation of Numerical Indices for Objective Interpretation of Frequency Response to detect Mechanical Faults in Power Transformers.
 21th International Symposium on High Voltage Engineering (ISH 2019), August 26–30, 2019, pp. 811– 824
- C. P. Beura, M. Beltle, S. Tenbohlen
Positioning of UHF PD Sensors on Power Transformers based on the Attenuation of UHF Signals.
 IEEE Transactions on Power Delivery, Vol. 34, No. 4, Aug. 2019, pp. 1520-1529

- S. Miyazaki, M. Tahir, S. Tenbohlen
Detection and quantitative Diagnosis of axial Displacement of Transformer Winding by Frequency Response Analysis.
 IET Generation, Transmission & Distribution, Vol. 13, No. 15, August 2019, pp. 3493-3500
- P. Wenger, M. Beltle, S. Tenbohlen, U. Riechert, G. Behrmann
Combined Characterization of Free-Moving Particles in HVDC-GIS Using UHF PD, High-Speed Imaging, and Pulse-Sequence Analysis
 IEEE Transactions on Power Delivery, Vol. 34, No. 4, August 2019, pp. 1540-1548
- M. Siegel, S. Coenen, M. Beltle, S. Tenbohlen, M. Weber, P. Fehlmann, S. M. Hoek, U. Kempf, R. Schwarz, Th. Linn, J. Fuhr
Calibration Proposal for UHF Partial Discharge Measurements at Power Transformers.
 Energies 2019, August 2019, 12, 3058,
 DOI: 103390/en12163058
- D. Müller, D.N. Schweitzer, M. Beltle, S. Tenbohlen
An Active Common Mode EMI Filter Approach introducing Predictive Pulsed Compensation.
 International Symposium on Electromagnetic Compatibility (EMC Europe 2019),
 Barcelona, Spain, September 2-6, 2019, pp. 1003-1008
- M. Tahir, S. Tenbohlen
Novel Calculation Method for Power Transformer Winding Fault Detection using Frequency Response Analysis.
 5th International Colloquium "Transformer Research and Asset Management"
 (ICTRAM'05 2019), Opatija, Croatia, October 09–12, 2019, Paper No. NM-10
- P. Wenger, M. Beltle, S. Tenbohlen, U. Riechert
UHF-PD Measurement and High-Speed-Imaging of Firefly Motion at the Positive Electrode in HVDC-GIS
 IEEE Conference on Electrical Insulation and Dielectric Phenomena, October 20-23,
 2019, Paper No. 1122
- S. Tenbohlen, C. P. Beura; M. Beltle, M. Siegel
UHF Sensor Placement on Power Transformers for PD Monitoring.
 CIGRE Colloquium New Delhi, India, SC A2, SC B2 & SC D1, November 21–22, 2019,
 Proceedings, pp. A2-174 – A2-181
- M. Tahir, S. Tenbohlen
Transformer Equivalent Circuit Parameter Estimation using Frequency Response Analysis.
 CIGRE Colloquium New Delhi, India, SC A2, SC B2 & SC D1, November 21-22, 2019,
 Proceedings, pp. A2-182 – A2-189
- S. Tenbohlen, M. Siegel, S. Coenen, M. Beltle, U. Kempf, S. Hoeck, M. Weber, R. Schwarz, J. Fuhr, P. Fehlmann, T. Linn
Calibration of UHF PD Measurements for Power Transformers
 CIGRE Colloquium New Delhi, India, SC A2, SC B2 & SC D1, November 21-22, 2019,
 Proceedings, pp. D1-57 – D1-68
- D. Passow, M. Beltle, S. Tenbohlen, J. Hohloch, R. Grund
Online and On-site Partial Discharge Measurement of Long Length Power Cables by Using Joints with Integrated PD Sensors.
 Proceedings of the 21st International Symposium on High Voltage Engineering (ISH 2019), Springer, Vol. 1, LNEE 598, November 2019, pp. 219-231,
 DOI: 10.1007/978-3-030-31676-1_21

M. Tahir, S. Tenbohlen
A Comprehensive Analysis of Windings Electrical and Mechanical Faults Using a High-Frequency Model.
Energies 2020, December 2019, 13, 105,
DOI: 103390/en13010105

C. P. Beura, M. Beltle, S. Tenbohlen, M. Siegel
Quantitative Analysis of the Sensitivity of UHF Sensor Positions on a 420 kV Power Transformer Based on Electromagnetic Simulation.
Energies 2020, December 2019, 13, 3,
DOI: 103390/en130100003

2020

M. Tahir, S. Tenbohlen
A Comprehensive Analysis of Windings Electrical and Mechanical Faults Using a High-Frequency Model.
Energies, vol. 13, no. 1, p. 105, December 2019 . DOI: 10.3390/en13010105

J. Bertelmann, M. Beltle, S. Tenbohlen, R. Eidher
Einflussparameter und Grenzen der Gleichtaktauslöschung im gegenphasigen Inverterbetrieb.
EMV 2020, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Köln, 17.-19. März 2020, Tagungsband, S. 239-246,
DOI: 10.15488/10033

M. Haug, M. Beltle, S. Tenbohlen
Modellierung von Wireless Power Transfer (WPT) Systemen zur Analyse der magnetischen Feldemissionen.
EMV 2020, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Köln, 17.-19. März 2020, Tagungsband, S. 47-54, DOI: 10.15488/10009

D. Müller, M. Beltle, S. Tenbohlen
Bewertung der Sensitivität eines hybriden Gleichtaktfilters für Traktionsinverter gegenüber Variationen der Betriebsparameter.
EMV 2020, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Köln, 17.-19. März 2020, Tagungsband, S. 197-204, DOI: 10.15488/10028

J. Schabel, M. Beltle, M. Kull, S. Tenbohlen, M. Zerrer
Methoden zur Untersuchung von Einflussparametern im Messaufbau von gestrahlten Emissionsmessungen im Komponententest nach CISPR 25.
EMV 2020, Internationale Fachmesse und Kongress für Elektromagnetische Verträglichkeit, Köln, 17.-19. März 2020, Tagungsband, S. 275-282, DOI: 10.15488/10037

M. Tahir, S. Tenbohlen, S. Miyazaki
Analysis of Statistical Methods for Assessment of Power Transformer Frequency Response Measurements.
IEEE Transactions on Power Delivery, Date of Publication: 21 April 2020
DOI: 10.1109/TPWRD.2020.2987205

S. Khandan, S. Tenbohlen
Numerical Investigation on the Influence of Clack-bands on Lifetime of Disc-type Windings.
Conference Paper, IEEE International Conference on Dielectrics (ICD), Valencia, Online, July 06-31, 2020

- B. Adam, S. Tenbohlen, M. Beltle
Separation of superimposed PRPD Patterns by Signal Clustering.
 Conference Paper, IEEE International Conference on Dielectrics (ICD), Valencia, Online, July 06-31, 2020
- T. Götz, P. Wenger, M. Beltle, K. Backhaus, S. Tenbohlen, U. Riechert
Partial Discharge Analysis in Gas-Insulated HVDC Systems Using Conventional and Non-Conventional Methods.
 Cigré Session 48, 23.08.-04.09.2020, Paris, D1-109
- S. Coenen, M. Siegel, M. Beltle, S. Tenbohlen, S. Hoek, P. Fehlmann, R. Schwarz, T. Linn, U.Kempf, M. Weber, J. Fuhr
Proposal of a Calibration Methodology of UHF Partial Discharge Measurements for Power Transformers.
 Cigré Session 48, 23.08.-04.09.2020, Paris, D1-116
- C. He, C. P. Beura, S. Tenbohlen
Investigation of Partial Discharge Activity in the Slot of a Hairpin-wound Stator.
 9th International Symposium on Electrical Insulating Material (ISEIM), Online, September 13–15, 2020, Tokyo, Japan, paper No. VL-2
- D. Müller, K. Spanos, M. Beltle, S. Tenbohlen
Improvement of Predictive Pulsed Compensation using Adapted Synchronization.
 International Symposium on Electromagnetic Compatibility (EMC Europe 2020), Online, September 23-25, 2020, pp. 1003-1008, Paper No. 224
- C. P. Beura, M. Beltle, S. Tenbohlen, M. Siegel
Quantitative Analysis of the Sensitivity of UHF Sensor Positions on a 420 kV Power Transformer Based on Electromagnetic Simulation.
Energies 2020, 13(1), 3; DOI: 10.3390/en13010003
- C. P. Beura, M. Beltle, S. Tenbohlen
Study of the Influence of Winding and Sensor Design on Ultra-High Frequency Partial Discharge Signals in Power Transformers.
Sensors 2020, 20(18), 5113; DOI: 10.3390/s20185113
- C. P. Beura, M. Beltle, S. Tenbohlen
Influence of Dielectric Window on the Performance of Window-type UHF PD Sensors.
VDE Hochspannungstechnik 2020, 9.-11. November 2020, Berlin, Online, ETG-Fachbericht 162, S. 561
- S. Karambar, S. Tenbohlen
Design of High Voltage Lead Exit for Power Transformers using Silicone Rubber Insulation.
VDE Hochspannungstechnik 2020, 9.-11. November 2020, Berlin, Online, ETG-Fachbericht 162, S. 343-347
- C. Kattmann, M. Siegel, D. Passow, M. Beltle, S. Tenbohlen
Inductive Energy Harvesting for the Monitoring of Power Cable Systems.
VDE Hochspannungstechnik 2020, 9.-11. November 2020, Berlin, Online, ETG-Fachbericht 162, S. 132-138
- S. Khandan, S. Tenbohlen
Numerische Untersuchungen des Einflusses von Betriebsparametern auf den Heißpunktfaktor einer Scheibenwicklung mittels CFD.

VDE Hochspannungstechnik 2020, 9.-11. November 2020, Berlin, Online, ETG-Fachbericht 162, S. 556

D. Passow, M. Beltle, S. Tenbohlen, J. Hohloch, M. Siegel
Evaluation of the Frequency Information Contained in PD Signals for Localization in Power Cable Monitoring.

VDE Hochspannungstechnik 2020, 9.-11. November 2020, Berlin, Online, ETG-Fachbericht 162, S. 288-293

P. Wenger, M. Beltle, S. Tenbohlen, U. Riechert
Partial Discharge Characteristic of Fixed Protrusions in HVDC-GIS.

VDE Hochspannungstechnik 2020, 9.-11. November 2020, Berlin, Online, ETG-Fachbericht 162, S. 656-661

M. Tahir, S. Tenbohlen
FRA Lookup Charts for the quantitative Determination of Winding Axial Displacement Fault in Power Transformers.

IET Electric Power Applications, Volume 14, Issue 12, December 2020, p. 2370 – 2377.
DOI: 10.1049/iet-epa.2020.0273

A. K. Pradhan, S. Tenbohlen
Estimation of Moisture Content in Oil-impregnated Pressboard through Analyzing Dielectric Response Current under Switching Impulse.

IEEE Transactions on Dielectrics and Electrical Insulation, Paper No. 9367, 2020 (accepted for publication)

M. Schühle, S. Tenbohlen
Berechnung von geomagnetisch induzierten Strömen auf Basis eines dreidimensionalen Leitfähigkeitsmodells.

e&i Elektrotechnik und Informationstechnik, Österreichischer Verband für Elektronik, Jg. 137, Ausgabe 8, 2020 <https://doi.org/10.1007/s00502-020-00828-3>

2021

C. Kattmann, R. Haug, A. Eisenmann, K. Rudion, S. Tenbohlen
Hochfrequente Spannungsqualitäts- und Transientenmessungen an Leistungstransformatoren.

Stuttgarter Hochspannungssymposium 2021, online, Stuttgart, 2. – 3. März 2021

P. Wenger, M. Beltle, S. Tenbohlen, U. Riechert
Dielektrische Prüfung von HGÜ-GIS.

Stuttgarter Hochspannungssymposium 2021, online, Stuttgart, 2. – 3. März 2021

B. Adam, S. Tenbohlen
Classification of Superimposed Partial Discharge Patterns.

Energies 2021, 14, 2144, April 2021, <https://doi.org/10.3390/en14082144>

J. Bertelmann, M. Beltle, S. Tenbohlen
Influence of MOSFET scattering on common mode cancellation in phase shifted inverter operation.

PCIM Europe digital days 2021; International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management, Nürnberg, Online, May 03 – 07, 2021, pp. 1881-1885.

- M. Gruber, M. Fischer, M. Beltle, S. Tenbohlen
Investigation of the Suitability of an Electrical Machine Emulation for EMC Component Tests of Drive Inverters.
 PCIM Europe digital days 2021; International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management, Nürnberg, online, May 03 – 07, 2021, pp. 1777- 1783
- A. K. Pradhan and S. Tenbohlen
Estimation of Moisture Content in Oil-impregnated Pressboard through Analyzing Dielectric Response Current under Switching Impulse.
 IEEE Transactions on Dielectrics and Electrical Insulation, vol. 28, no. 3, pp. 938-945, June 2021, doi: 10.1109/TDEI.2020.009367
- J. Schabel, M. Zerrer, M. Kull, M. Beltle, S. Tenbohlen
Methods for Investigating Influence Parameters in the Measurement Setup for Radiated Emissions according to CISPR 25.
 2021 Joint IEEE International Symposium on Electromagnetic Compatibility, Signal & Power Integrity, and EMC Europe Symposium, July 26 – August 20, 2021, online, TP-TUE-1A
- J. Schabel, M. Beltle, M. Kull, S. Tenbohlen, M. Zerrer
Calibration of a non-null test interferometer for the measurement of aspheres and free-form surfaces.
 2021 Joint IEEE International Symposium on Electromagnetic Compatibility, Signal & Power Integrity, and EMC Europe Symposium, July 26 – August 20, 2021, online
- A. K. Pradhan and S. Tenbohlen
A New Approach to Estimate Activation Energy of Oil-impregnated Pressboard Stressed under Switching Impulse at Different Temperatures.
 IEEE Transactions on Dielectrics and Electrical Insulation, vol. 28, no. 4, pp. 1162-1170, August 2021, doi: 10.1109/TDEI.2021.009514
- M. Fischer, D. Christl, M. Beltle, S. Tenbohlen, D. Gentsch, W. Ebbinghaus
Influences of Axial Magnetic Fields and Different Contact Materials in Vacuum Interrupters on the Chopping Behaviour of Switching Arcs.
 26th International Conference and Exhibition on Electricity Distribution – CIRED, Genf, Online, September 20-23, 2021, Paper No. 0755
- J. Bertelmann, M. Beltle, S. Tenbohlen
Optimization Methods for Common Mode Cancellation in Phase Shifted Inverter Operation.
 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC), Nusa Dua - Bali, Indonesia, September 27-30, 2021, pp. 330-333
- M. Haug, M. Beltle, S. Tenbohlen
Magnetic Field Emission of Automotive Inductive Charging Systems in the 9 kHz – 30 MHz Range.
 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC), Nusa Dua - Bali, Indonesia, September 27-30, 2021
- H. Tarimoradi, H. Karami, G. B. Gharehpetian, S. Tenbohlen
Sensitivity analysis of different components of transfer function for detection and classification of type, location and extent of transformer faults.
 Measurement, Volume 187, 2022, 110292, ISSN 0263-2241, <https://doi.org/10.1016/j.measurement.2021.110292>

S. Tenbohlen, C.P. Beura, M. Siegel

Increase of Reliability of Power Transformers by Calibrated UHF PD Measurements in FAT and SAT.

CIGRE International Conference on Condition Monitoring, Diagnosis and Maintenance (CMDM 2021), Bucharest, Romania, 9 – 11 October 2021, Paper No. 98

C.P. Beura, M. Beltle, S. Tenbohlen

Experimental Analysis of Electromagnetic Wave Propagation in a Distribution Transformer.

CIGRE International Conference on Condition Monitoring, Diagnosis and Maintenance (CMDM 2021), Bucharest, Romania, 11 – 13 October 2021, Paper No. 80

M. Gerber, M. Beltle, S. Tenbohlen

Performance assessment of top-oil temperature models for overload capability estimation in online monitoring purposes.

CIGRE International Conference on Condition Monitoring, Diagnosis and Maintenance (CMDM 2021), Bucharest, Romania, 11 – 13 October 2021, Paper No. 83

S. Karambar, S. Tenbohlen

Compatibility Study of Silicone Rubber and Mineral Oil.

Energies 2021, 14, 5899, <https://doi.org/10.3390/en14185899>

M. Tahir, S. Tenbohlen

Transformer Winding Condition Assessment Using Feedforward Artificial Neural Network and Frequency Response Measurements.

Energies 2021, 14, 3227, <https://doi.org/10.3390/en14113227>

D. Müller, M. Beltle, S. Tenbohlen

EMI Suppression of a DC–DC Converter Using Predictive Pulsed Compensation.

IEEE Transactions on Electromagnetic Compatibility, vol. 63, no. 6, pp. 2134-2142, Dec. 2021, doi: 10.1109/TEMPC.2021.3084896

Z. D. Wang, S. Y. Matharage, Q. Liu, S. Tenbohlen, C. Ekanayake, T. K. Saha, H. Ma, Y. Xu

Research and development of ester filled power transformers.

Transformers Magazin, Vol. 8, Issue 4, pp. 24-33, 2021

J. Schabel, M. Beltle, M. Kull, S. Tenbohlen, M. Zerrer

Methods for Investigating Influence Parameters in the Measurement Setup for Radiated Emissions according to CISPR 25.

2021 IEEE International Joint EMC/SI/PI and EMC Europe Symposium, 2021, pp. 110-114, doi: 10.1109/EMC/SI/PI/EMCEurope52599.2021.9559320

Stand: 31.12.2021