

Weidmann Diagnostic Solutions Training Course Faculty
Power Transformers Seminar
and
Transformer Fluid Diagnostics Seminar
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Derek Baranowski, Baron USA, Inc.
350 Baron Circle. PO Box 2997, Cookeville, TN 38501
Phone: 931-528-8476; Email: derek@baronusa.com

Derek Baranowski is President of Baron USA, Inc., a Veteran Owned Small Business. Baron USA, founded in 1975, is the premier provider of transformer dry out and dielectric fluid processing systems for O.E.M.s, Utilities, and Field Service Organizations worldwide. Derek has been with the company since 1981. Prior to joining Baron, he served with the U.S. Army Signal Corps. He is a member of the IEEE Transformer Committee. When not working, Derek can usually be found sailing somewhere where the weather and water are warm.

William Bartley, P.E., Hartford Steam Boiler Insp. & Ins. Co.
One State Street, PO Box 5024, Hartford, CT 06102-5024
Phone: 860-722-5483; Email: william_bartley@hsb.com

William Bartley is Assistant Vice President and the Principal Electrical Engineer in the Engineering Department of Hartford Steam Boiler Inspection and Insurance Co. Mr. Bartley earned a B.S. degree in Electrical Engineering from University of Missouri at Rolla, and has been employed by Hartford Steam Boiler since 1971. He is responsible for developing corporate engineering standards, OEM relations, fleet problems, large failure investigations, and new monitoring and testing technologies. He is a registered Professional Engineer in Connecticut, and a Senior Member of IEEE, serving on both the Transformers Committee and Electric Machinery Committee.

Jan Declercq, CG Holdings Belgium NV
Antwerpsesteenweg 167, Mechelen 2800, Belgium
Phone: +32(0) 1 528 3240; Email: jan.declercq@cgglobal.com

Jan Declercq obtained his Masters degree in Mechanical Engineering at the Katholieke Universiteit, Leuven, Belgium, where he also obtained a MBA and a Ph.D. on Fluid Dynamics and Heat Transfer. After a sabbatical at Purdue University USA, he joined Pauwels Trafo Belgium, an international transformer manufacturer in August 1996. He was head of the Research and Development department and Business Development Manager New Technologies. Dr. Declercq was an active member in different working groups of IEEE, IEC TC 14, Cigré A2 Transformers and EWEA committees. As convenor of Cigré A2WG24 on Thermal Performance, he received the Cigré Technical Award. In 2008, he joined Hansen Transmissions International, a world-class designer and manufacturer of gear drives, as Director of Business Development and Sales for Wind Energy. He is presently Chief Business Development Officer of CG Holdings, a global products and systems provider in Transmission and Distribution of electric energy. He is also chairman of the Belgium Renewable Energy sector of Agoria, Belgium's industry federation, board member of EWEA and chairman of Belgium IEC TC88 on wind turbines. His main interests are thermal performance of power transformers, new transformer and system application in smart grids and wind turbine business.

Bruce Forsyth, P.E., Southwest Electric Company
6501 S.E. 74th St., Oklahoma City, OK 73135
Phone: 405-736-8616; Email: bruce.forsyth@swelectric.com

Bruce Forsyth is Vice President and General Manager of Commercial Transformer Operations at Southwest Electric Company in Oklahoma City. He is responsible for managing the daily business operation and overseeing the activities of a team of engineers, technologists, technicians, and salesmen responsible for the redesign and remanufacture of power transformers with ratings through 230 kV class. Prior to assuming his current position, Mr. Forsyth held various design and management positions with Pauwels Canada, MagneTek Ohio Transformer, and Federal Pioneer. Mr. Forsyth received a B.S. degree in Physics and Mathematics from the University of Winnipeg in 1983. He received a B.S. degree in Electrical Engineering from the University of Manitoba in 1987. Mr. Forsyth is a Registered Professional Engineer in the state of Oklahoma and an active member of the IEEE Transformers Committee.

Jack E. Hammers, P.E., Oklahoma Gas & Electric
P.O. Box 321, Mail Code M113, Oklahoma City, OK 73101
Phone: 405-553-8371; Email: hammerje@oge.com

Fredi Jakob, Ph.D., Weidmann Diagnostic Solutions Inc.
4011 Power Inn Road, Sacramento, CA 95826
Phone: 916-455-2284; Email: fredi.jakob@wicor.com

Dr. Fredi Jakob is a Technical Consultant for Weidmann Diagnostic Solutions Inc. He is responsible for technical aspects of the laboratory, organizes courses and conferences and has been an instructor for previous courses offered by Weidmann Diagnostic Solutions. Dr. Jakob is a long-term member of ASTM and IEEE and author of over 50 published articles. He is Chairman of the IEEE Working Group C57.139 "Guide for LTC DGA." He is a traveling lecturer to private and governmental agencies and has been invited to speak at Doble and AVO conferences, NETA, EPRI and American Public Power meetings, and ASTM symposia. Prior to his current position, Fredi Jakob was the founder and Laboratory Director of Analytical ChemTech International, Inc. (ACTI). He served as Professor of Analytical Chemistry at California State University, Sacramento for 36 years. Over the years he was also a visiting professor at many educational institutions: University of Wisconsin, Madison; Oregon State University, Corvallis; Victoria University, Wellington, N.Z.; University of Wollongong, Australia; University of California, Davis; and University of Utah, Salt Lake City. He was a visiting scientist at Lawrence Laboratories at University of California, at both Berkeley and Livermore. Dr. Jakob received his B.S. degree in Chemistry from CCNY and a Ph.D. degree in Analytical Chemistry from Rutgers, the State University of New Jersey.

Karl Jakob, P.E., Weidmann Diagnostic Solutions Inc.
4011 Power Inn Road, Sacramento, CA 95826
Phone: 801 -272-4579; Email: karl.jakob@wicor.com

Karl Jakob, is the Director of Business Development for Weidmann Diagnostic Solutions Inc. He holds a Bachelor of Science in Electrical and Electronic Engineering from California State University, Sacramento and is a Registered Electrical Engineer in the State of California. He was a co-founder of Analytical ChemTech International (ACTI) and has co-authored several papers on oil diagnostic applications, which have been published in trade journals and presented at technical conferences such as EPRI, NETA, Doble, etc. Karl is an active member of the IEEE Transformers Committee.

David Koehler, Weidmann Diagnostic Solutions Inc.
5305 Commerce Square Drive, Ste. D, Indianapolis, IN 46237
Phone: 317-888-2577; Email: david.koehler@wicor.com

David Koehler is a Regional Manager for Weidmann Diagnostic Solutions Inc., he oversees our diagnostic laboratories in Indiana, Pennsylvania and Wisconsin. David received a Bachelor degree in Chemistry from Indiana University and an MBA Degree from Indiana Wesleyan University. He has held various management positions within the laboratories for over eleven years. David is a member of ASTM, ACS, and an Executive Committee member for the Central Indiana IEEE Section.

Rick Ladroga, P.E., Doble Engineering Company
65 Boston Post Road West, Marlborough, MA 01752
Phone: 617-393-3133; Email: rladroga@doble.com

Richard K. Ladroga, P.E., is the General Manager for Doble Engineering's Global Power Services group, an international provider of Engineering services, with headquarters in the USA, and offices located in 75 countries worldwide. He is responsible for managing the Consulting Services, Forensic Engineering, Condition Assessment, and Field Test business units at Doble. He earned the B.Sc. in Electrical Engineering (Power Systems) with Distinction from Worcester Polytechnic Institute in 1991. Mr. Ladroga has authored a number of publications. He has served as the Chairman of the IEEE Power Engineering Society (PES) Education and Seminar Committees in Boston. He presently serves as the Chairman of the IEEE Transformers Committee Insulating Fluids Subcommittee and Chairman of the Working Group C57.104 "Guide for Interpretation of Gases in Oil Immersed Transformers." He is a Senior Member of the Institute of Electrical and Electronic Engineers (IEEE), and is also a Board Certified Diplomat of the National Academy of Forensic Engineers, a member of the IEEE Power Engineering Society, IEEE Standards Association, National Fire Protection Association, and National Society of Professional Engineers. He is a Registered Professional Engineer in numerous states. His main interests are in the fields of Condition Assessment, specializing in power transformers and power plants, and Forensic Engineering, specializing in the areas of electrical explosions, fires, and electrocutions.

Richard P. Marek, DuPont Protection Technologies – Energy Solutions
5401 Jefferson Davis Highway, Spot 395, Richmond, VA 23838
Phone: 804-383-2376; Email: richard.p.marek@usa.dupont.com

Rick Marek received a BSEE from Purdue University. He has been employed with DuPont since 1998 working in Nomex® Applications Research, focusing on high-temperature insulation systems for transformers. His previous work experience includes 28 years in transformer manufacturing including

design, development and management with Hevi-Duty Electric and ABB for dry-type, cast and liquid-filled products. He is a Senior member of IEEE where he has been active in various subcommittees and working groups since 1982 and has served as chairman for two revision cycles of C57.110. Rick is currently chairman of the IEEE PC57.154 WG and the IEC/TS 60076-14 WG, both covering high-temperature liquid-filled transformers. He is also a member of the US Technical Advisory Group for IEC Technical Committee 14.

Vijay Pargaonkar, CG Power Systems, Inc.
One Pauwels Drive, Washington, MO 63090
Phone: 636-239-9316; Email: vijay.pargaonkar@pauwels.com

Vijay Pargaonkar is the Vice President of Business Development at CG Power Systems Inc. Vijay started his career as a transformer design engineer at ASEA Electric. He worked for ASEA/ABB/Waukesha Electric for more than twenty years in various areas – surge arrestors, capacitors, high voltage breakers, medium and large power transformers, modular substations and EPC. Vijay is one of the founding members of the Power Systems Continuing Education Program at Marquette University (Milwaukee) involved in offering short courses in Power Apparatus. Mr. Pargaonkar is a member of the IEEE, currently involved in the development of the IEEE Standard 2030 Guide for Smart Grid Interoperability.

Donald Platts, PE, PPL Electric Utilities
2 North 9th Street (GENN4), Allentown, PA 18101-1179
Phone: 610-774-4686; Email: dwplatts@pplweb.com

Don Platts is a Senior Staff Engineer - Substation Maintenance Engineering with PPL Electric Utilities. He has 37 years experience in the Substation Engineering, Substation Component Engineering, and Substation Maintenance Engineering groups. He has responsibility for power transformer issues from studies, specifications, purchasing, maintenance, failure investigation, and repairs. He is a member of the IEEE Transformers Committee, where he has served as the chair of the Insulation Life Subcommittee, and is presently serving as the Secretary of the committee. He is also the chair of the EEI Spare Transformer Program Equipment Committee. Don has a BSEE degree from Lafayette College, and is a Registered Professional Engineer in Pennsylvania.

Thomas Prevost, Weidmann Diagnostic Solutions Inc.
One Gordon Mills Way, P.O. Box 799, St. Johnsbury, VT 05819
Phone: 802-751-3458 E-mail: tom.prevost@wicor.com

Tom Prevost is Vice President of Technology, Diagnostics and Monitoring for Weidmann Diagnostic Solutions Inc. Previous to this position he was Vice President of Technical Services at EHV-Weidmann Industries in St. Johnsbury, Vermont, where he has been employed since 1985. Tom received his BSEE from Virginia Polytechnic Institute. He is an active member in ASTM D-27 Committee on Insulating Fluids and CIGRE Task Force D1.01.13 on Furan Analysis. He is also the Vice-Chair of the IEEE Transformers Committee as well as serving on the IEEE Standards Board. Tom is recognized industry wide as an insulation materials expert and has written several technical papers on the subject of Electrical Insulation Materials.

H. Jin Sim, Waukesha Electric Systems

P.O. Box 268, 2701 US Highway 177 South, Goldsboro, NC 27530

Phone: 919-580-3234; Email: jin.sim@waukesha.spx.com

Jin Sim is Vice President, Technology and Chief Technology Officer for Waukesha Electric Systems. Jin has a BSEE from Dankook University in Korea. He attended two graduate schools for Engineering and one graduate school for Business Administration. He has been in the transformer industry for over 30 years - in design, development, manufacturing, testing, and management. Jin has been active in the Electric Power industry as a past chair of several Working Groups and Subcommittees. Most recently, he was the Chairman of the IEEE/PES Transformers Committee for 2002-2003. He is a member of the US Technical Advisory Group for IEC Technical Committee 14, Power Transformers and an individual member of the CIGRE. Mr. Sim was the NEMA and IEEE delegate to the ASC C57 Committee before it was discontinued.

Paulo Stein, CG Power Systems Canada Inc.

101 Rockman Street, Winnipeg, Manitoba R3T 0L7 Canada

Phone: 204-474-5714 ; Email: paulo.stein@cgglobal.com

Paulo Stein came from Brazil in March 2008 to work at Pauwels Canada. Presently he is the Traffic Manager at CG Power Systems Canada Inc. in Winnipeg, Canada. As a Traffic Manager he works closely with the railroads to get clearance to ship the company's transformers by rail, as well as with the road carriers to deliver transformers and transformer parts by road. Also he works with various off loaders in the USA and Canada to get the transformer placed on the pad at destination. Before joining CG Power he worked eleven years at AREVA T&D in Southern Brazil, at their plant in the city of Canoas. He worked in both the Shipping Department and as a Project Manager, dealing mainly with customers in USA and Canada. In his position any kind of logistic is a challenge, because it involves a lot of different parties to get a transformer to its destination. The company goals are to have a happy customer, deliver a good product, and to find a balance between good service and costs.

Krishnamurthy Vijayan, CG Power Systems, Inc.

101 Rockman Street, Winnipeg, MB, Canada R3T 0L7

Phone: 204-474-5793 Email: k.vijayan@cgglobal.com

Krish Vijayan is Head of Electrical Engineering at CG Power Systems Canada. He has over 25 years experience in design and development of large power transformers, shunt reactors and phase shifting transformers. He received Design training at Westinghouse Electric Corporation, Hamilton, Canada. He made a major contribution to the development of 420kV transformers and shunt reactors in CG, India and also to the development of 700MVA Auto transformers, 750MVA GSU transformers, and 200MVA Phase shifting transformers in CG Power Systems Canada. He has published and presented 14 technical papers at transformer conferences. Mr. Vijayan has a Masters of Engineering with specialization in High Voltage Engineering, is a Certified Professional Engineer in Canada, a member of IEEE, and is active on transformer committees.

Waldemar Ziomek, CG Power Systems, Inc.
101 Rockman Street, Winnipeg, MB, Canada R3T 0L7
Phone: 204-474-5793; Email: waldemar.ziomek@cgglobal.com

Dr. Waldemar Ziomek is Manager of Engineering for CG Power Systems Inc. (formerly Pauwels Canada Inc.) He started his employment with Pauwels in 1997 as an electrical designer, then in 1999 was electrical engineering manager, and since 2003 is manager of engineering, responsible for the electrical design, quotation design, product development, mechanical design (internal and external), and controls. Since 2001 he is also an adjunct professor at The University of Manitoba, Department of Electrical and Computer Engineering, where previously he worked in 1995-1997 as a Post Doctoral Fellow. In 1995 he was in Germany at Stuttgart University, Institute of Power Transmission and High Voltage Technology, as visiting researcher. In 1993-94 he was a visiting researcher at the University of Strathclyde, Centre for Electrical Power Engineering, Glasgow, UK. Previously he worked at Poznan University of Technology, Institute of Electrical Power Engineering, High Voltage & Material Science Division, where in 1992-1997 he was an Assistant Professor and in 1987-1992 Teaching Assistant and Researcher. He received his MSc in Electrical Engineering in 1987 and a PhD in Electrical Power & High Voltage Engineering in 1992, both from Poznan University of Technology, Poland. Dr. Ziomek has published over 60 papers, mainly on transformer insulation, vacuum insulating systems, gaseous dielectrics, and partial discharge recognition methods. He is member of IEEE Power Engineering Society, IEEE Transformers Committee, IEEE Standards Association, CSA and CIGRE.