Weidmann Diagnostic Solutions Training Course Faculty

Power Transformers Seminar
and
Transformer Fluid Diagnostics Seminar
San Francisco, CA - June 8-10, 2009

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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.

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Ron Barker is President of Power Transformer Consulting, specializing in Transformer Inspections and Factory Evaluations. Ron earned a B.S. degree in Electrical Engineering from Virginia Tech in 1965. He was employed by Dominion Virginia Power for over 40 years, involved in the areas of Engineering and Manufacturing, Inspections, Factory Evaluations, Specifications Review and Compliance, and Diagnostic and Failure Analysis. Ron is a past senior member of the IEEE/PES C57 Transformers Committee, and has authored numerous technical papers for various industry organizations.

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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.

Fredi Jakob, Weidmann Diagnostic Solutions
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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 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 the following 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.

Marion Jaroszewski, Delta Star West
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Mr. Jaroszewsi's expertise is in design of transportable (mobile and portable) high temperature transformers and substations as well as core type power, generator step up, auxiliary and grounding Zig-Zag transformers, autotransformers and voltage regulators.

Marion Jaroszewski graduated from Technical University of Lodz, Poland with EE degree in 1973. His master thesis was Methods of Calculation of Optimal Dimensions of Active Parts of Power Transformers. He started his professional career with Transformer Manufacturer ELTA (currently ABB-ELTA) in Lodz, Poland. He moved to United States in 1981 and started as a Transformer Engineer with Alamo Transformers in Houston, Texas. He designed single- and three-phase distribution transformers.

In 1985 Mr. Jaroszewski was hired as a Design Engineer by H.K. Porter in Belmont, California, and in 1987 was promoted to Senior Design Engineer. In 1988, two H. K. Porter transformer plants in Belmont, CA and in Lynchburg, VA were bought by employees and became Delta Star, Inc. In 1995 he was promoted to Manager of Engineering. He was promoted to Corporate Technical Officer in 2004 and to Vice President of the company in 2005. He is an active member of IEEE.

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Troy Kabrich is currently the General Manager for the Service Division of Waukesha Electric Systems. In this capacity, he is responsible for the management of field installation, maintenance, and customer support activities for Waukesha Electric transformers as well as providing third party field services for the installation, maintenance, repair, and retrofit of power transformers. During his nineteen years of industry experience, Mr. Kabrich has held positions as a Director of Field Services, Service Manager, Repair Operations Manager, Field Service Engineer, and Sales Engineer. He has published articles for T&D World and Utility Automation and Engineering magazines and is a frequent contributor to industry training programs. He has a Bachelor of Science degree in electrical engineering from Rose-Hulman Institute of Technology.

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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

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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 Education and Seminar Committees in Boston. He presently serves as the Chairman of the IEEE Transformer 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.

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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.

C. Patrick McShane, Cooper Power Systems
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C. Patrick McShane received his BS in Electrical Engineering from Marquette University in 1970, and an MS in Engineering Management from the Milwaukee School of Engineering in 1998. He is a Professional Engineer registered in the State of Wisconsin and a Senior Member of IEEE. Currently he is the Global Technology Manager for Dielectric Fluids at Cooper Power Systems. He also serves a Technical Director of StepUp Coalition for the advocacy of safer and more sustainable transformers.

His employment experience includes International Area Manager for RTE Corp. (1977 – 1984) and Regional Technical Director for the State of Sao Paulo (Brazil) Rural Electrification Program 1970 – 1976). His professional activities have included USA Delegate International Electrical Commission (IEC) TC99, IEC TC99 Liaison to TC64, IEC TC89 Expert Delegate, Chair ASTM W.G. D-5222, and Chair of IEEE Transformer Committee Dielectric Fluids Subcommittee Working Group C57.121. Most recently he completed his duties of Chair of the IEEE TC WG C57.147 Standard Guide for Natural Ester Based Dielectric Coolants, published on July 11, 2008. Currently he serves as an officer of the IEEE TC Dielectric Fluids SC. Several of his proposals have been adopted by USA Codes and Standards (NEC, NESC, FM Global). He has presented papers at domestic and international engineering conferences including IEEE, EPRI, Doble, CIGRE and CIRED. He is the principal inventor of several US and International patents relating to dielectric fluids. Projects managed by Mr. McShane have received regional and national

recognition, including Governor's (WI) New Product of the Year and Spirit of Ecology Award, Plant Engineering Magazine Electrical Product of the Year, and Cooper Industries Gold Environmental Award.

Mr. McShane has been active in community service, including past president of the board of directors of Catholic Social Services (Waukesha County), MSCS Health Support Association, and Board of Directors officer of Friends of Retzer Nature Center. In addition to English, he is conversant in Spanish and Portuguese. He currently resides in Waukesha, WI.

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on Platts is Senior Engineer - Substation Maintenance Engineering with PPL Electric Utilities. He has 36 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 since 2000. He is presently 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.

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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.

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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. He has been the NEMA and IEEE delegation to the ASC C57 Committee before it was discontinued.

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Mr. Stead is Senior Equipment Specialist at AltaLink in Calgary, AB, Canada. He has been involved in the maintenance and operation areas of the utility industry for over 25 years. During the last several years he has been a Senior Consultant with Stead Consulting, working with Canadian and American utilities in the development of maintenance programs and procedures. John is a recognized expert on Bushing Diagnostics and has presented several technical papers on Bushing Maintenance and Forensic Analysis of Bushing Failures at Doble conferences. He is the author of over 20 technical papers and is presently the Chairman of the Doble Advisory Committee and Vice Chairman of the Bushing Insulator and Instrument Transformer Committee.

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David Woodcock is currently Vice President of Strategic Development with Weidmann Diagnostic Solutions in St. Johnsbury, Vermont. David has more than 25 years experience with electro-mechanical equipment used in electric generation and on T&D systems around the world. He is an Executive Affiliate of the ASME Power Engineering Society, a member of the IEEE PES Transformers Committee and the IEEE Standards Association. He is also a working group member of CIGRE. Mr. Woodcock received a H.N. Diploma in Mechanical Engineering. in Britain and attended the graduate program in Power Engineering at the University of Waterloo, Canada and the Executive Certificate program in Finance and Accounting at the Wharton School of Business, University of Pennsylvania. He has written numerous articles and technical papers on power transformer insulation systems, dynamic loading and transformer life-cycle topics.