

PRESENTATIONS

EHC Fluid and Related Topics

Ken J. Brown, PEng, CLS, FSTLE
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'Condition Monitoring (Why, what, when, where, who & The Need to do Better)', Nov 20, 2014, Canadian Machinery Vibration Association - CMVA Ontario Chapter Meeting. Information Center – PNGS.

'Conditioning Monitoring and Preventative Maintenance', Oct 29, 2014, Toronto Section Education Course on Understanding the Principles and Application of Lubrication Science, Old Mill, Toronto, ON.

'EHC Electrohydraulic Control Fluid Maintenance', EPRI Condition Based Maintenance Conference, July 15, 2014, Four Seasons Hotel, St. Louis, MI

'Why We Need Lubricants and Why We Need to do Better' January 30, 2014, Toronto Section STLE, Ryerson University presentation to 4th year Engineering students.

'EHC Fluid Tutorial', 2 hours, K. Brown, Eco Fluid Center Ltd., 13th EPRI Steam Turbine-Generator Workshop, Vendor Exhibition and TGUG Meeting, August 12-16, 2013, Charlotte, NC.

'Trouble Shooting Steam Turbine Phosphate Ester EHC Fluids', Power Generation Industrial Council, STLE Annual Meeting, May 16-20, 2010, Las Vegas, NV.

'EHC Fluid Maintenance -Trouble Shooting', OPG Workshop on "IX Treatment for Steam Turbine Control Fluid", May 14, 2010 at Pickering NGS, Pickering, ON.

'EHC Fluid Maintenance – Turbine OEM Equipment', OPG Workshop on "IX Treatment for Steam Turbine Control Fluid", May 14, 2010 at Pickering NGS, Pickering, ON.

'EHC Fluid Analysis and Component Issues – Off-Line Condition Assessment' EPRI Turbine Generators Users Group (TGUG) Winter Workshop, January 15-16, 2007, Royal Plaza, Orlando, FL.

'EHC Fluid Analysis and Component Issues – On-Line Condition Assessment' EPRI Turbine Generators Users Group (TGUG) Winter Workshop, January 15-16, 2007, Orlando, FL.

'Electrohydraulic (EHC) Fluid Issues and Maintenance' EPRI 4th Turbine-Generators Technology Transfer Workshop and Vendor Exposition, July 24-25, 2006, The Hilton, Charlotte University Place, NC.

'EHC Fluid Twenty Years Later - Still Going Strong', 2005 STLE Annual Meeting, Power Generation Session 5F, Las Vegas, NV, given by T. Austin. and Key, Clearwater, FL.

'EHC Fluid Quality and Effect on Overspeed Protection System Reliability', EPRI Turbine Overspeed Risk Management and Reliability Improvement Workshop, February 3-4, 2004, Palmer House Hilton, Chicago, IL.

'Effect of Water on Properties of Fire Resistant EHC Fluids', STLE Annual Meeting, Power Generation I, Monday 9:00, May 17-20, 2004, Toronto, ON.

'Phosphate Ester Electro-hydraulic Fluids', Southern Co. Condition Based Maintenance User Group Meeting, February 18-21 2003, Auburn, AL.

'EHC Fluid Maintenance', EPRI Turbine Generator, Technology Transfer Workshop, July 22, 2002, Charlotte, NC

'EHC Fluid Quality Maintenance', 7th EPRI Turbine/Generators Users Workshop, prepared but given by R. L. Slover and E.M. Austin, August 20-23, 2001 Baltimore, MD.

'Ten Years Experience with Ion Exchange Purification', with L. Billings and T. Austin, Power Generation Council, STLE 2001 Annual Meeting in Orlando, FL.

'Phosphate Ester Electro-hydraulic Control Fluids', with T. Austin, Forsythe at EPRI NMAC Turbine Generators Users Group – EHC Workshop”, Jan 15-17, 2001, New Orleans, LA.

'Consolidating Lubricants' and 'Phosphate Ester Electrohydraulic Fluid', EPRI /NMAC Lubrication & Bearing Workshop”, March 29-31, 2000, Williamsburg, VA

'Fire Protection and Hazards of Lubricating and Hydraulic Fluids', with T. Austin, Society of Fire Protection Engineers Southern Ontario Chapter, March 9, 1999, Toronto, ON.

'Steam Turbine Control Fluid Seminar', Monticello GS Texas Utilities, two half day seminars, March 1, 1999, Monticello GS, TX.

'Effect of Water on Phosphate Ester Control Fluids', with L. Billings & T. Austin, Power Generation Council, STLE Annual Meeting, May 11-21, 1998, Detroit, MI.

'Cost Effective Particulate Contamination Control' and 'Lubrication Surveys', STLE Toronto Section Education Courses, Feb 17, 1998 Toronto & Feb 19, 1998 Ottawa, ON.

'Trouble Shooting EHC Systems', Power Generation Council, STLE 1997 Annual Meeting, Kansas City, MI.

'Lubrication Fundamentals', Two Day Diagnostics Seminar, Tulsa, OK, Aug 5-7, 1996.

'Recommended Maintenance Activities' and 'Typical Operating Problems', Steam Turbine Control Fluid Symposium, STLE 1995 Annual Meeting, Cincinnati, OH.

'Effective Particulate Contamination Control', Plant Engineering and Maintenance Association of Canada, March 6, 1996, Mississauga, ON.

'Particulate Contamination Control', STLE Toronto Section, October 10, 1995, Toronto, ON.

'Power Station Particulate Contamination Control', STLE 1995 Annual Meeting, Power Generation Industry Council, Chicago, IL.

'Fire Resistant Fluid: Case Histories', with G. Staniewski, STLE 1994 Annual Meeting, Power Generation Industry Council, Pittsburgh, PA.

'Fire Resistant Fluid Case Histories', Electric Power Research Institute (EPRI) NMAC 4th Annual Conference and Technical Workshop, March 21-23, 1994, Charlotte, NC.

'Achieving Real Cost Savings in Rotating Equipment', Mar 9, 1994, Holliday Inn, STLE Sarnia Section

'Salem Overspeed Incident', Presentations to technical staff at Ontario Hydro nuclear stations: Bruce 'A', Bruce 'B', Darlington and Pickering in 1992.

'Lubrication Seminar - Fundamentals of Lubrication, Properties and Uses, Sampling, Greasing Procedures, Economical Costs, and Specific Failures', For mechanical maintainers at Ontario Hydro Bruce 'A' NGS, September-October, 1990. Similar one day seminars were given at Bruce 'B' and Lambton TGS, ON.

'Fluid Condition Monitoring and Failure Analysis', March 27, 1990, Final year tribology class at McMaster University, Hamilton, ON. Other talks to students have been given at the Universities of Toronto, Waterloo and Rensselaer Polytechnic.

'Fluid (Oil) Condition Monitoring', Ontario Hydro Nuclear Generation Division (NGD) Fourth Maintenance Conference, January 19, 1990, Aurora, ON. Similar presentations were given at most of the Ontario Hydro nuclear and fossil stations.

'Condition Monitoring and Maintenance of Steam Turbine-Generator Fire Resistant Triaryl Phosphate Control Fluids', Condition Monitoring and Preventative Maintenance Conference held in conjunction with STLE Annual Meeting May 1-4, 1989, Atlanta, GA.