



(Society of Tribologists and Lubrication Engineers)

Toronto Section

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Wind Turbine Gearbox Lubrication – Performance, Selection and Cleanliness

Michelle Graf
Product Manager
Industrial Additives
The Lubrizol Corporation
Wickliffe, Ohio

Summary: This very timely presentation will include an overview of wind energy market including recent market information for Canada as well as the global market. This will be followed by a formulation overview of what a wind turbine gearbox lubricant needs to do and key components needed in a formulation to do so. The presentation will finish with a discussion of key performance requirements covering the requirements (bench, mechanical and field tests) needed to adequately evaluate performance of the gear lubricant based on what key manufacturers require.

Bibliography: Michelle Graf has been employed with Lubrizol for nineteen years. While at Lubrizol, Michelle has used various analytical techniques to characterize new and used lubricants to understand the performance additives and how they change in use. Michelle is currently a product manager in the Industrial Additives group where she manages additives for hydraulic fluids and industrial gear oils. Michelle is currently the co-chair of the American Wind Energy Association Operation and Maintenance Working Group. She has been involved in the wind industry for approximately ten years. She has a BS and MS in Polymer Science from Case Western Reserve University.

Location;

The Old Mill
21 The Old Mill, Toronto
(off Bloor near the Old Mill subway stop)
Click [Old Mill Map](#)

5:00 - 5:30 pm Hospitality
5:30 - 6:45 pm Dinner
6:45 Technical Presentation

(Note: These are ½ hour earlier)

Meeting Fees;

STLE Members	\$45
Non-Members	\$55
Students	\$20
Retirees, transition members	\$25

(Includes meal, refreshments & talk.
Subject to change without notice and
add \$5 if not pre-registered)

Please preregister with Ed Milanczak at emilan@cogeco.ca or 416 702-3107 because we require good numbers for the dinner.