



OilDoc Conference and Exhibiton 2017 Program

State: January 23rd, 2017. Subject to change.

DAY 1 – TUESDAY, JAN. 24TH, 2017

08:30 am – 09:30 am **Grand Opening:** Petra Bots & Rüdiger Krethe (OilDoc), Otto Lederer (Bavarian Parliament), Gabriele Bauer (Mayor Rosenheim)
Plenary lecture: Formulation strategies for fuel economy – dedicated additives for low viscosity lubricants
Walter Kudlich – Afton Chemical GmbH

09:30 am – 10:00 am **Coffee & Snacks**

	Hall 1	Hall 2	Hall 3
10:00 am – 12:00 am	<p>OIL ANALYSIS</p> <p>Handling of oil analysis data – Opportunities and challenges of Big Data and Industry 4.0 Steffen Bots OELCHECK GmbH</p> <p>Using oil analysis to trigger wear debris analysis Michael D. Holloway ALS Global</p> <p>Is NIST SRM2806b responsible for the sudden increase in particle counts on your oil analysis reports? Bill Quesnel, Jr. CINRG Systems Inc.</p> <p>Aircraft turbine engines and helicopter gearboxes – Wear Debris Morphology via Analytical Ferrograph Stanislav Sláčík ALS Czech Republic, s.r.o.</p>	<p>HYDRAULICS</p> <p>Bosch Rexroth Fluid Rating – News about the rating process Klaus Ellenrieder Bosch Rexroth AG</p> <p>Increased Energy Efficiency for injection molding machines with DYNAVIS® Technology for Industrial Hydraulic Fluids Rolf Fianke Evonik Resource Efficiency GmbH</p> <p>Cleanliness of hydraulic fluids – test methods and interpretation of test results in practice Rüdiger Krethe OilDoc GmbH</p> <p>Hydrostatic power transmission oil for very high pressure application Jiri Valdauf LUBRICANT s.r.o.</p>	<p>TRIBOLOGY</p> <p>New European legislation on chemicals – estimated influence on raw material availability and lubricant industry Dr. Stephan Baumgärtel VSI Verband Schmierstoff-Industrie e.V.</p> <p>Influence of water contamination in gear lubricants on wear and micro-pitting performance of case carburized gears Christian Engelhardt FZG Technische Universität München</p> <p>Minimum quantity lubrication versus traditional flood application – A breakthrough or only for niche applications? Dr. Heinz Dwuletzi Carl Bechem GmbH</p> <p>Influence of lubricant additives on surface quality and material removal rate in a lapping process Wilhelm Rehbein LANXESS GmbH, BU Rhein Chemie Additives</p>

12:00 am – 01:30 pm **Lunch**

	OIL ANALYSIS METHODS I	GEARS	BASE OILS
01:30 pm – 03:00 pm	<p>MPC Test: Sample preparation and repeatability of test results Dr. Thomas Fischer OELCHECK GmbH</p> <p>Overview of oxidation laboratory tests on industrial lubricants Vincent Bouillon BfB Oil Research S.A.</p> <p>Simultaneous monitoring of multiple quality indicators of lubricating oil by vis-near infrared spectroscopy Dave van Staveren Metrohm AG</p>	<p>New developments of industrial gear oils based on modern synthetic hydrocarbons and other synthetic alternatives Wolfgang Bock Fuchs Schmierstoffe GmbH</p> <p>The Siemens-ISP-Filterability test rig – why and how developed Dr. Gerhard Gajewski Siemens AG</p> <p>Heat in turbo transmissions – causes, effects and remedies Erwin Bauer AEB Kompetenzzentrum</p>	<p>Ionic liquids and ionic liquid-mediated dispersions of nanomaterials as high performance additives for lubricants Dr. Thomas Schubert IoLiTec Ionic Liquids Technologies GmbH</p> <p>Latest development of phenyl-/fluoro-siloxane copolymers with enhanced lubricity and high temperature resistance Tobias Schlarb Dow Corning GmbH</p> <p>Replacement of Group I – a way forward for the lubes and greases Mehdi Fathi-Najafi Nynas AB</p>

03:00 pm – 03:30 pm **Coffee & Snacks**

	OIL ANALYSIS METHODS II	TURBINES I	TRIBOLOGY II
03:30 pm – 05:30 pm	<p>Condition monitoring of marine lubricating oils by infrared absorption measurements with chemometric modelling Dr. Stuart Lunt Parker Kittiwake</p> <p>Real time monitoring of water content in reactive drawing oil by near infrared spectroscopy Dr. Alexandre Olive Metrohm AG</p> <p>On-site measurement of water by IR Spectroscopy in turbine oils: Challenges and a new approach Randi Price – Spectro Scientific, Inc.</p> <p>Precision analysis of test methods for moisture contamination in various types of lubricants Surupa Shaw – Viswa Lab</p>	<p>The next generation for low varnish turbine oils Thijs Schasfoort Petro-Canada Europe Lubricants Ltd.</p> <p>Long-term results of turbine oil anti-oxidant replenishment at a combined cycle power plant Greg Livingstone Fluitem International</p> <p>How to flush out the debris from seized or hardly damaged bearing of the turbine or big engine Tomas Klima – ECOL Sp. z o.o.</p> <p>Optimized flushing and cleaning strategies for rotating equipment to remove deposits Martin Kletzl – WESTO Hydraulik GmbH</p>	<p>Sinterbearings with infiltrated liquid-crystalline lubricants with minimal friction losses and maximum life time Susanne Beyer-Faiss Dr. Tillwich GmbH</p> <p>Thermal model hypothesis of EHD lubricant film Prof. Dr. Sergey Vasily Fedorov Kalingrad State Technical University</p> <p>Investigation into the tribology of toothbrush and toothpaste design Rich Baker, PCS Instruments</p>

OIL ANALYSIS METHODS III

MAINTENANCE

ADDITIVES

08:30 am – 10:00 am

Lubricant and grease oxidation analysis using Differential Scanning Calorimetry (DSC) methods to determine the lubricant useful life – Part 1: The Basics
Dr. Cory Schomburg – PerkinElmer Analytical Sciences

Reliability Leadership – why it's broken and how to fix it
Terrence O'Hanlon
Reliabilityweb.com

Interactions of sulfur carriers with metal surfaces – new findings
Prof. Dr. Joachim Schulz
FUCHS WISURA GMBH

Lubricant and grease oxidation analysis using Differential Scanning Calorimetry (DSC) methods to determine the lubricant useful life – Part 2: Lubricant Oxidation Results
Dr. Cory Schomburg – PerkinElmer Analytical Sciences

Structural Elements that comprise the DNA of a Condition Monitoring Champion
Bryan Johnson
Arizona Public Service

The effectiveness of lubricant additives in preventing soot induced wear
Aitziber Viadas
Croda Europe Limited

An in situ sampling technique used to monitor engine oil oxidation
Jonathan C. Evans
SAVANT, Inc.

Dynamic filter efficiency – Extending lifetime of the filter
John W. Evans
HyPRO Filtration

Prognostic model to analyze the effects of REWITEC® nano coating treatment of wind turbine gearboxes
Stefan Bill – Rewitec GmbH

10:00 am – 10:30 am – **Coffee & Snacks**

PARTICLE MONITORING

WIND POWER

TRIBOTESTING

10:30 am – 12:00 am

Tribological test and optical measurements of particles and their distribution as function of wear mode
Morten Henneberg
C.C. Jensen A/S

Journal bearings within gearboxes for windturbines
Dr. Frank-Dieter Krull
Eickhoff Antriebstechnik GmbH

Comparative analysis of standardized test methods on common tribological test rigs
Jürgen Rigo
Steinbeis Transferzentrum, Hochschule Mannheim

Size analysis of emulsion-static and dynamic light scattering
Uwe Killemann
Beckman Coulter GmbH

Longterm experiences of lubricants in wind turbines
Kirsten Schwörer
BP Europa SE

A new test method to evaluate hydraulic fluids for vane pumps
Dr. Emmanouil Georgiou
Falex Tribology N.V.

Condition Monitoring – New technologies for testing wear metals
Frank Bernier
CM Technologies GmbH

Oil condition monitoring of synthetic gear oils in wind turbines – Evaluations of practical experiences
Carsten Heine
OELCHECK GmbH

12:00 am – 01:30 pm – **Lunch**

GREASES

FLUID SERVICE

METAL WORKING & FORMING I

01:30 pm – 03:30 pm

OVERATED! Maybe it is time for the grease penetration test to retire
John Sander
Lubrication Engineers Inc.

Who are the enemies of the hydraulic fluid and how to minimize downtime
Ulrich Hielscher
IHA Internationale Hydraulik Akademie GmbH

Novel additives for the metalworking industry
Dr. Lisa Schmidt
Schäfer Additivsysteme GmbH

Bechem-rheometer curves for greases
Frank Reichmann
Carl Bechem GmbH

Fluid-Service in harsh environment – Fluid Service on the spot in greater Russia
Dietmar Kreyser
Ural - Hydraulics Holding

Base oil and emulsifier selection – experimental determination of metalworking fluid emulsion stability
Prof. Dr. Thomas Norrby
Nynas AB

PFPE greases based on bifunctional thickeners
Verena Schott
Setral Chemie GmbH

Consequences of incorrect EHC fluid maintenance and opportunities for improvement
Peter Dufresne
EPT

A new generation of synthetic water-miscible cutting fluids – free of mineral oil, Boron and Biocide
Hendrik Karl – Fuchs Schmierstoffe GmbH

Polymers to enhance the water spray-off performance of greases as measured by ASTM D4049
David A. Devore
Functional Products Inc.

Cleanliness monitoring of hydraulic systems
Geoff Grant
MP Filtri UK Ltd.

New generation of phosphat-esters for MWF: Balancing performance, labeling and economics
Claude Emanuel Hédoire – Solvay Novocare

03:30 pm – 04:00 pm – **Coffee & Snacks**

MAINTENANCE & LUBRICATION

TURBINES II

METAL WORKING & FORMING II

04:00 pm – 06:00 pm

INVISTA's battle plans: Lubrication excellence as cornerstone to improved reliability
Suzy Hitchcock
ICML

Lubrication management at Linde Gas
Ulf Obkircher
Linde AG, Geschäftsbereich Linde Gas

Influence of the lubricant on life extension at converters and precision cutting
Prof. Dr. Joachim Schulz
FUCHS WISURA GMBH

Metrics for lubrication program success
Austin O'Kelley
Noria Corporation

The integration of an oil condition monitoring and contamination control program on steam turbines machine park at a waste to energy power plant
Jo Ameye – FLUITEC N.V.

A new generation hot rolling oil
Dr. Subinoy Paul
Indian Oil Corporation Limited

UBIK® Inspection round in an industrial plant
Helmut Guggenbichler
Augmensys GmbH


The soluble-insoluble varnish equilibrium and its impact on varnish-removal effectiveness
Matthew Hobbs
EPT

Efficient cleaning of cooling lubricant systems with the COMPREX®-process
Hans-Gerd Hammann
Hammann GmbH

Biodegradable lubricants in marine applications – Possibilities for a transfer of knowledge from land and sea applications
Matthias Aßmann
OELCHECK GmbH

Bearing pad varnish deposits
Andy Sitton
Focuslab Ltd.

	Hall 1	Hall 2	Hall 3
08:30 am – 10:00 am	MAINTENANCE DISCUSSION FORUM Industry 4.0! Maintenance 4.0! Lubrication 4.0? Moderation: Wolfgang Kräußlich Chief editor of the fluid magazine Steffen Bots (OELCHECK GmbH) Wolfgang Bock (Fuchs Schmierstoffe) Stuart Lunt (Parker Kittiwake) Ulf Obkircher (Linde AG) Klaus Ellenrieder (Bosch Rexroth AG)	HEALTH & ENVIRONMENTAL ASPECTS Guidelines and requirements for the production of food grade lubricants Manfred Plötz Bremer & Leguil GmbH NSF-H1 hydraulic fluid in plastic machines Andreas Busch HYDAC Filter Systems GmbH Coating as an alternative to oil based lubricants – Bonded Coatings for threaded connections Rüdiger Schiffer OKS Spezialschmierstoffe GmbH	GREASE ANALYSIS METHODS Infrared spectral study of greases – Part I: Overview Dr. Dave Wooton Wooton-Consulting Infrared spectral study of greases – Part II: Case Studies Lisa Williams York Laboratories, LLC New method to establish particle counting of greases for cleanliness and inservice condition monitoring Rich Wurzbach MRG Labs
10:00 am – 10:30 am	Coffee & Snacks		
10:30 am – 12:00 pm	OIL ANALYSIS II Saving equipment – closing the gap on compliance Gwyn Simmonds Polaris Laboratories LLC. Aspects of analyzing additive elements in lube oils with x-ray fluorescence spectrometry – what is possible? Dr. Jürgen Wess PANalytical GmbH The evolution of maintenance and big data analytics and a gas engine case study Jorge Alarcon IK4 Tekniker	SPECIAL APPLICATIONS Effective oil conditioning in oil circulation lubrication systems Falko Liebing SKF Lubrication Systems Germany AG Qualification of a multipurpose lubricant for the army Johannes Bader Wehrwissenschaftliches Institut für Werk- und Betriebsstoffe Selection of sealing oils for gas holders Alexander Graf AC ² T research GmbH	LUBRICATION My sample has gone up in smoke: Total analysis using TGA-GCMS Dr. Tim Mann PETA Solutions Hard particle contamination in reciprocating compressors Dr. Ricardo Cruz Buckhardt Compression AG Wear particle analysis in wind turbines Beatriz Graça INEGI
12:00 pm – 01:30 pm	Farewell Address & Lunch		

 These presentations will be hold in German.
 If you need simultaneous translation, please do not forget to get your headphones at the InfoPoint.



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The OilDoc Conference and Exhibition 2017 is fast approaching. Also see the latest version of the presentation program, review sessions and save them to your personal agenda.

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Registration

Registration fee is EUR 995.- + VAT

Three or more conference registrations of one company/institution get a discount of 5 %!

Speakers pay a reduced participation fee (EUR 190.- + VAT).

Registration fee includes:

- ✓ Participation at the presentations
- ✓ Access to the exhibition
- ✓ Lunch buffet, coffee/tea and snacks during breaks
- ✓ Dinner events:
Come-together Party on Tuesday and Little Oktoberfest on Wednesday
- ✓ Conference bag, proceedings
- ✓ Bus transfers from selected hotels to the conference center

Exhibition

During the 2017 OilDoc Conference an exhibition is organized. Meets these exhibitors!



Social Events/Complementary Program

- ✓ Come-together Party on 24th January
- ✓ Little Oktoberfest on 25th January
- ✓ Special recommendation: Extend your conference journey and go to Munich or Salzburg. Both are nearby! We advise you how to travel and where to stay.



Location

KUKO, Conference Center, Kufsteiner Strasse 4
D-83022 Rosenheim (inner city)
50 km from Munich, 70 km from Salzburg
www.kuko.de



Rosenheim is a central spot on the way between Munich and Salzburg and has a lot to offer. You will enjoy your stage in one of the most beautiful towns of Bavaria.

Contact

Heads of Organisation Committee

Peter Weismann, Dipl.-Ing. – Chairman Planning Committee
Rüdiger Krethe, Dipl.-Ing. – Chairman Planning Committee
Petra Bots – Exhibition & Sponsorship
Bastian Gürth – Registration & Information

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