



Automotive Circle International

European Forum on Metalworking Fluids 2011



29 – 30 November 2011 | Bad Nauheim

**Focus-workshops &
live polls on site**

Simultaneous translation English/German



VINCENTZ

Programme Committee

Sven Giesler	Daimler AG, DE
Dr. Dirk Meine	Automotive Circle International, DE
Dr. Mathias Woydt	Automotive Circle International, DE

Key issues in industrial metalworking processes

For the second time after 2010, on 29 and 30 November 2011 the European Forum on Metalworking Fluids attends to recent progress and current topics in the application and management of metalworking fluids in high-volume industrial production, thereby addressing key issues in the pursuit of more efficient and more sustainable metalworking production processes. Having expanded the longstanding tradition of the trailblazing *Deutsches Kühlschmierstoff-Forum* to an international level, the conference offers a unique opportunity for large-scale industrial users of metalworking fluids – international automotive manufacturers and other important OEM –, as well as for metalworking fluid producers, production equipment suppliers and representatives of relevant research institutions and important associations to exchange views and information concerning current developments in the efficient management and use of metalworking fluid systems.

With its technical presentations, focused interactive workshops and intensive plenary and individual discussions, the conference aims to provide answers to the following key questions concerning today's metalworking fluid systems and their management:

Production equipment

- ▶ How can the circulation of process fluids be further optimised?
- ▶ What can the fluid management equipment contribute to increase the service life of metalworking fluids?
- ▶ How can the entrainment of metalworking fluids be minimised?
- ▶ What conditions make dry processing and minimal quantity lubrication a viable alternative?
- ▶ Can the recyclability of used metalworking fluids be further improved? Is a „zero-waste“ process realistic?
- ▶ What progress has been made towards an optimal resource efficiency and energy/heat management?

Metalworking fluid systems

- ▶ Water- or oil-based metalworking fluid systems?
- ▶ How can the conservation of water miscible metalworking fluids and the corrosion protection of worked pieces be guaranteed without formaldehyde-releasing biocides and boric acid anticorrosives?

- ▶ To what extent can metalworking fluids promote higher cutting performances and a better quality of the finished workpiece? Are there new insights regarding the tribology involved?
- ▶ What about the global availability of raw materials for (eco-)toxicologically acceptable metalworking fluids?

Legislation

- ▶ How do current national and EU environmental and occupational health and safety legislations affect industrial metalworking processes?
- ▶ How can efficient fluid management and waste disposal comply with global requirements?
- ▶ Are there systematic methods to optimise process fluids and lubricants in view of global health, safety and environmental aspects as well as optimal performance?

Quality management

- ▶ What improvements can be made in the handling and storage of worked pieces in view of residual dirt or corrosion problems?
- ▶ How can the process efficiency best be monitored?
- ▶ Can simple and reliable test methods make expensive full-scale trials redundant?
- ▶ How can globally different maintenance concepts be managed, or standardised?

We are looking forward to welcoming you in Bad Nauheim!

The conference addresses:

OEM engineers working in production and development, with responsibilities for the management of process fluids in large-volume industrial metalworking processes, as well as technical application and development engineers from metalworking fluid producers, process equipment system suppliers and relevant engineering service providers.

Interactive

Interactive Focus Workshops (in English language only)

As an important element of the conference, four parallel discussion workshops will be hosted, addressing specific issues and methods in industrial metalworking fluid management in depth. Conference participants may choose to attend the workshop that best matches their particular interests. As a positive side effect, the workshops bring together participants sharing the same interests, maximising networking opportunities.

Live polls on-site

Via an automated polling system, live polls among the participants on some key questions will be held during the two conference days, taking the opportunity to gather some insight into the considerations of the conference audience, which, as an assembly of experienced international engineers, represents a unique body of expertise. The results of these polls will be shown immediately after polling and will also be documented for all conference participants.

Tuesday, 29 November 2011

9.00 h Welcome and conference introduction

Legislative Framework

9.10 h European trends in metalworking fluids – controversial demands in the EU member states

G. Theis, Fuchs Europe Schmierstoffe GmbH, DE

9.50 h New requirements and solutions through the German BGR/GUV-R143

Michael Rocker, Berufsgenossenschaft Metall Nord Süd (BGM), DE

Resource efficiency in the process

10.30 h Chances and benefits of efficient pumping systems in metalworking fluid systems

Holger Fritzsche, Grundfos Deutschland GmbH, DE

11.10 h Coffee and contacts

11.40 h Converting waste to valuables: Modern oil separator technology/Surplus heat driven evaporation technology as an alternative to ultrafiltration

Walter Müller, Müller Gerätebau GmbH, DE

12.20 h The art of cooling/Visions become reality

Daniel Meyer, Stiftung Institut für Werkstofftechnik (IWT) Bremen, DE

13.00 h Lunch break

Tribology and metalworking fluid interactions

14.10 h A transition in tribology – metalworking fluids as a machine element

Prof. Dr. Rolf W. Schmitt, Fachbereich Maschinenbau und Mechatronik, Fachhochschule Aachen/Gesellschaft für Tribologie e.V., DE

14.50 h New findings on the interaction of additives with metal surfaces

Dr. Joachim Schulz, Wisura Mineralölwerk Goldgrabe & Scheft GmbH & Co., DE

Please check for updates of the conference programme & online-registration

www.automotive-circle.com

Interactive

15.30 h

Discussion workshops (in English language)

The interactive discussion workshops on specific topics concerning metalworking fluid development and management, moderated by renowned experts in the corresponding field, provide an in-depth exchange of views and experiences with your peers. As a conference participant you also have the possibility to suggest particular discussion topics to the organisation committee.

Discussion workshop 1

Process hygiene: How can biocontamination effectively be avoided in water miscible metalworking fluid systems?

Discussion workshop 2

Resource efficiency in energy and heat management – What is possible?

Discussion workshop 3

Minimum quantity lubrication – When and how is it applicable?

Discussion workshop 4

Metalworking fluid systems – without mineral oil?

Incl. coffee break

Resource efficiency in the process (continued)

17.00 h Use of Sankey-diagrams in the visualisation of resource efficiency decisions

Tobias Viere, ifu Hamburg GmbH, DE

17.40 h Get-Together

18.45 h Dinner



Wednesday, 30 November 2011

Resource efficiency in the process (continued)

- 8.30 h **Efficient use of water in the manufacturing process**
Dr. Axel Werner, BMW AG, DE

Metalworking fluids: compatibility, waste management, process hygiene

- 9.10 h **Elastomers in contact with metalworking fluids: Criteria for their selection**
Peter Walther, Oemeta Chemische Werke GmbH, DE

- 9.50 h **Presentation of the Discussion Workshop results**

- 10.10 h **Coffee and contacts**

10.40 h Practice Workshops

Two Practice Workshops (A and B) taking place in parallel allow to take a direct insight into analytical techniques and process visualisation methods.

A: Practice Workshop Microscopy: In search of germs

Semsa Paracki-Kadic, Adecco Business Solutions GmbH, DE

B: Practice Workshop Visualisation of material and energy flows

Tobias Viere, ifu Hamburg GmbH, DE

Interactive

- 11.30 h **On-line-determination of bacterial contamination in water miscible metalworking fluid systems via bioluminescence**
Alberto Seghesio, Petronas Lubricants, IT

- 12.10 h **New trends in the use of biocides in aqueous metalworking fluid systems**
Wolfgang Siegert, Schülke & Mayr GmbH, DE

- 12.50 h **Lunch break**

Metalworking fluid systems

- 14.00 h **Modular metalworking fluid system – resource efficiency and cost reduction**
Carmen Freiler, Fuchs Europe Schmierstoffe GmbH, DE

- 14.40 h **Dermatologic compatibility of pH-enhanced metalworking fluid systems**
Dr. Wolfgang Pittermann, Simred GmbH, DE

- 15.20 h **Update 2011: New, oil-free metalworking fluids capture MWF central systems**
Dr. Heinz Dwuletzki, Carl Bechem GmbH, DE

- 16.00 h **Concluding remarks and farewell address**

- 16.10 h **End of the conference**

* Subject to change (as of 26 September 2011)

Terms and Conditions

Registration

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You can also register online

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Date

29 – 30 November 2011

Venue

Hotel Dolce Bad Nauheim
Elvis-Presley-Platz 1
DE-61231 Bad Nauheim
T +49 6032 303-0
F +49 6032 303-529
www.dolce-bad-nauheim-hotel.com

We kindly ask you to make your own hotel reservation. Accommodation is available at the conference hotel, which holds single rooms at the rate of 132,-€ incl. breakfast. Please refer to „Automotive Circle“. The mentioned room rate includes 5,-€ breakfast per person and per day.

Conference fees

Standard fee: 1.375,- €*

Early-bird fee: 1.275,- €*

(for registrations received by 1 November 2011)

Junior fee: 687,50 €* (only valid on presentation of a valid student ID)

*All prices plus 19% German VAT. All conferences in Europe are subject to VAT. To reclaim, please contact your local tax office.

Conference fees include

- ▶ Full conference participation
- ▶ Conference proceedings and list of delegates
- ▶ Authority for downloading the presentation in the internet
- ▶ Participation in the speakers' discussions
- ▶ Luchens/Coffee breaks
- ▶ Participation in the evening networking events

Conference language

The conference will be translated simultaneously into English and German. Please note that the contents of lectures and presentations at simultaneously interpreted conferences are predominately composed in the English language.

Cancellations

Fees will be refunded in full if notice of cancellation is received by 3 October 2011. 50 % of the conference fees will be refunded in case notification of cancellation is received later, but not later than 15 November 2011. Delegates who fail to attend without notifying the organiser will be liable for the whole conference fees. Substitutions of delegates may be made at any time. Cancellations and changes should be notified in writing. In all cases date of postmark shall apply. Any fees to be refunded will be paid after the end of the conference. The organiser reserves the right to change the programme content or to cancel the event due to important reasons. Cancellation fees of third parties that may appear in this context will not be reimbursed.

Please note

By registering you understand that your participation and attendance at the conference may be videotaped, filmed and/or audio recorded. You agree that the recording may be used for any lawful purposes that Vincenz Network, or its designees, in their sole discretion, may determine. The address data are processed for customer service and information purposes in compliance with the German Federal Data Protection Law. Company's name, city and country might be published on the Internet as reference for the upcoming conferences of Automotive Circle International.

Photos

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