



KNOWLEDGE IS POWER

Technical Programme Schedule

CWIEME CENTRAL SEMINAR THEATRE AND WORKSHOP HUB

Leading global experts will come together to discuss the biggest themes and topics of discussion from across the world of electrical design and manufacturing. The technical programme explores the challenges affecting your business and the wider electrical manufacturing industries. From gaining the competitive edge in development and machine design to material sourcing, advances in manufacturing, global market dynamics and regulatory impacts affecting you and your supply chain.

Key themes include:

- > New pathways to optimisation and efficiency
- > The long and winding road: Next generation transportation and e-mobility
- > Data, connectivity and automation
- > Material technology as the game changer?

Whether you are a design engineer working in EV, a manufacturing specialist for industrial motors, an operational decision maker in power transformer manufacturing or an R & D leader in the automotive world, you'll find a session to refresh your knowledge, share your thoughts, open your eyes to new perspectives and connect with like-minded professionals.

NEW! CWIEME TUTORIALS: LEARN, QUESTION, EXPLORE & CHALLENGE

This year's CWIEME Berlin content programme brings you even more ways to benefit from industry experts and really gain value from your visit.

The new CWIEME Tutorials offer interactive tutor-led short courses that give you even more opportunity to learn, ask questions, explore common challenges and find the solutions that you need. There are 4 tutorials on offer on 20th and 21st June. See schedule for details.

RESERVE YOUR PLACE NOW!

These are paid-for sessions, with limited space and must be booked in advance of your attendance.

How to book

Please note all bookings for tutorials require a credit or debit card. No cash bookings.

The cost of booking onsite is €130 + 19% VAT per person.

Online

You can book online up until 2 hours before the start of your chosen tutorial, using a credit or debit card only.

www.coilwindingexpo.com/berlin/tutorials

In-person onsite

Book in person using a credit or debit card only. Visit the content team at the VIP/Speaker Lounge Reception desk, located behind CWIEME Central seminar theatre, in Hall 2.1.

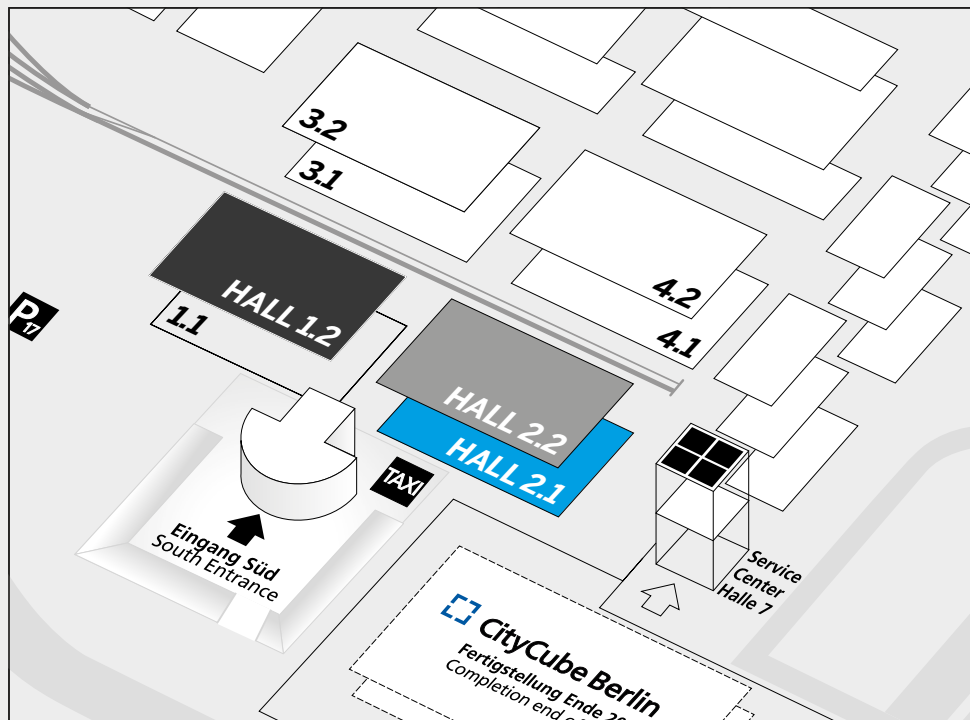
We will be taking bookings up to **1.5 hours** before the start of a tutorial.

Due to time constraints and operational set-up we regret no further bookings or admittance to tutorials after the 1.5 hour cut-off point.

Location: The tutorials will be held in room 'Stuttgart' located at the back left hand side of hall 1.2. It is located through the doors at the back of the hall. Hall 1.2 is the upper level of the venue.

No admittance without proof of booking.

SEMINAR THEATRE LOCATIONS



▲ Main entrances / Haupteingänge

⬆ Reserve entrances / Bedarfseingänge

CENTRAL THEATRE

Hall 2.1 Stand F30

TUTORIALS

Hall 1.2 Stuttgart, located at the back left hand side of hall 1.2

WORKSHOP HUB

Hall 2.2 Stand F60



CWIEME

Global Awards

2017

Join your peers at the CWIEME Global Awards presentation and drinks reception taking place at 5pm on Wednesday 21st June in the CWIEME Central Theatre.*

We are delighted to announce the shortlist for the CWIEME Global Awards 2017.

Congratulations to all of those who have been shortlisted.

PRODUCT OF THE YEAR

Backpaketersystem®

Submitted by: SWD Stator- und Rotortechnik AG

MAGMENT Magnetizable Concretes

Submitted by: MAGMENT UG

OMICRON Lab Dielectric Material Analyzer SPECTANO 100

Submitted by: OMICRON Lab a division of OMICRON electronics GmbH

Robot Stacker IRE 25

Submitted by: LAE SRL

Ames-LFC® self-lubricating sintered bearings

Submitted by: AMES

CarTech® Hypocore™ Alloy

Submitted by: Carpenter Technology Corporation

OUTSTANDING CONTRIBUTION - A LIFELONG COMMITMENT TO INDUSTRY

Dr Gwynne Johnston - Tempel

Mark W. Raymond - UL

James R. Hendershot - Motorsolver

ENGINEER OF THE YEAR

Mark W. Raymond - UL

Dr Erik Hilinski - Tempel

GLOBAL OUTREACH AWARD - BEYOND THE FACTORY FLOOR

Tempel Chennai

Submitted by: Tempel

The Science Under The Bell Towers

Submitted by: Lagor PT Cores

University Partnership Program for Zambia

Submitted by: ABB

*Please also note that the cloakroom at the Messe Berlin closes at 6.30pm prompt.

TUESDAY 20 JUNE 2017

CENTRAL THEATRE

10:35 - 11:15

IHS MARKIT FOCUS

Beyond 2017: What lies ahead for the electric motor industry?

Andrew Orbinson, Analyst, IHS Markit

TUTORIALS

11:00 - 12:30

CWIEME TUTORIAL 1

Electromagnetic and thermal modelling of open source electric motors used in commercial automotive traction applications

Dr. Dave Staton, Founder, Motor Design Ltd

James Goss, Head of Research and Innovation, Motor Design Ltd

CENTRAL THEATRE

11:30 - 12:10

Noise reduction in T & D equipment: Key techniques in vibration control optimisation

Rui Palavra, Global Technical Manager, Amorim Cork Composites

In partnership with:



WORKSHOP HUB

11:45 - 12:35

Next generation/future transportation:

Hyperloop SpaceX winners from MIT and Delft University showcase ground-breaking design ideas

MIT Hyperloop: From concept to final test

Max Opgenoord, Team Leader, MIT Hyperloop, MIT

Delft Hyperloop: Revolutionising transportation at the speed of sound

Edouard Schneiders, Team Leader, Delft Hyperloop, Delft University

CENTRAL THEATRE

12:25 - 13:05

Electrical steel developments for electric machines

Stefano Cicale, Project Leader, Centro Sviluppo Materiali

CENTRAL THEATRE

13:25 - 14:25

Technical Papers Showcase

Three presentations focusing on the latest developments in material processing and insulation system developments.

Different approaches to laser scribing

Peter Rauscher, Group Leader, Fraunhofer Institute Material and Beam Technology IWS

Remote cutting - an interesting technology for electrical drives

Patrick Herwig, Group Manager Laser Cutting, Fraunhofer Institute Material and Beam Technology IWS

TSADUR – Insulation system of temperature class 250

Dr. Harald Neudorfer, Director of Engineering, Traktionsysteme Austria GmbH

TUTORIALS

14:15 - 15:45

CWIEME TUTORIAL 2

Beyond historical boundaries: Transformer application design and anticipating customer needs for non-standard applications

Kevin Wilson, Technical Manager, **Wilson Power Solutions**

WORKSHOP HUB

14:30 - 15:10

Bonding varnish (Backlack) in large series productions:

Exploring the fully automated production of bonded stator segments for large automotive series

Thomas Stäuble, CEO, **SWD AG Stator - und Rotortechnik**

CENTRAL THEATRE

14:40 - 15:20

UL 1446 systems of insulating materials – The new 7th edition

Mark W. Raymond, Principal Engineer, **UL**

In partnership with:



CENTRAL THEATRE

15:35 - 16:15

KEYNOTE – A FUTURE POSSIBILITIES SESSION: Holistic system performance improvement

Raising efficiency by changing design paradigms for electric machines.

Patrick Lombard, Lead Application Specialist, EM Solutions, **Altair**

CWIEME Berlin EMS
Sponsor 2017:



CENTRAL THEATRE

16:30 - 17:20

PANEL DISCUSSION

REACH Authorisation: An existential threat for the electrical industries?

Aart Rouw, REACH Specialist, **BAuA**

Patrick de Kort, Regulatory Compliance Manager, **AJIT**

Ulrich Massen, Founder & Independent Consultant, **UM Thermoset Consulting**

WEDNESDAY 21 JUNE 2017

CENTRAL THEATRE

09:15 - 10:15

BREAKFAST BRIEFING

Plug into Efficiency and performance:

New soft magnetic alloy for electric motors and laminations

Dr. Chins Chinnasamy, Principal Metallurgist, **Carpenter Technology Corporation**

Coffee, tea and pastries will be served

In partnership with:



CENTRAL THEATRE

10:30 - 11:10

Digital transformations: Engineering the world's first digital distribution transformer

The story behind the world's first digital distribution transformer, revolutionising asset management and performance through data

Deia Bayoumi, VP, Head of Global Product Management, Distribution Transformers, Power Grids Division, **ABB**

TUTORIALS

10:30 - 12:00

CWIEME TUTORIAL 3

Comparative design trade-off analysis for various electric machine technologies used for EV traction

Dr Dave Staton, Founder, **Motor Design Ltd**

James Goss, Head of Research and Innovation, **Motor Design Ltd**

WORKSHOP HUB

10:45 - 12:15

Multi-disciplinary design of efficient electrical equipment

Farid Zidat, Senior Application Engineer, **Altair**

Johann Kott, Motor Specialist, **MACCON**

Alex Quantelli, Motor Specialist, **SPIN**

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CENTRAL THEATRE

11:25 - 12:05

The contribution of electrical steel to cost savings and efficiency

Dr. Kurt Satzinger, Head of Quality, Electrical Steel, **Voestalpine**

Dr. Herbert Kreuzer, Senior Researcher, Electrical Steel, **Voestalpine**

In partnership with:



CENTRAL THEATRE

12:20 - 13:00

EV TECH FOCUS

Road mapping the EV future - Battery technology, mass manufacturing and the prospects ahead for energy storage

Professor Dave Greenwood, Head of Advanced Propulsion Systems, **University of Warwick, UK**

Moderator – Caroline Hayes, Technology Journalist, **Ruiva Media**

CENTRAL THEATRE

13:35 - 14:25

EV TECH FOCUS - KEYNOTE SPEAKER

The Diversity of eMachine technology options to electrify future JLR Vehicles

Dr. Alex Michaelides, Senior Technical Specialist eMachines and Power Electronics, Jaguar Land Rover

Moderator – Caroline Hayes, Technology Journalist, **Ruiva Media**

TUTORIALS

14:15 - 15:45

CWIEME TUTORIAL 4

Adapting your distribution transformers to meet the SMART changes.

Led by the Trafogrid Alliance:

Alex Bertuzzi, Managing Director, **LAE** | **Federico Bugno**, Manager, **LEAS**

Hubert Gourraud, Sales Director - Energy Division, **MAXEI**

Frederic Dollinger, Product & Marketing Manager, **HAEFELY**

Hakan Aktay, Transformer Manufacturing Consultant

CENTRAL THEATRE

14:40 - 15:20

EV TECH FOCUS

Powertrain design and modelling for light and heavy duty vehicles

Prof. Dr. ir. Omar Hegazy, Team Leader: Power Electronics and Electrical Machines, ETEC Dept. & MOBI Research Centre, **University of Brussels**

Prof. Dr. ir. Thierry Coosemans, Team Leader, Electric and Hybrid Vehicles, MOBI Research Centre, **University of Brussels**

Moderator – Caroline Hayes, Technology Journalist, **Ruiva Media**

WORKSHOP HUB

14:50 - 15:50

Simulation driven design for efficient electric machines

Sylvain Perez, Technical Expert - Electromagnetic Solutions, **Altair**

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CENTRAL THEATRE

15:35 - 16:15

The measure of permanent magnets: A comparison between electromagnet based method and pulsed field magnetometry

Andrea Del Prete, Director of Quality and Magnetic Measurement, **Laboratorio Elettrofisico**

Moderator – Caroline Hayes, Technology Journalist, **Ruiva Media**

In partnership with:



CENTRAL THEATRE

17:00 - 18:30

CWIEME GLOBAL AWARDS*

Join your peers at the CWIEME Global Awards presentation and drinks reception.

THURSDAY 22 JUNE 2017

CENTRAL THEATRE

09:15 - 10:30

EV TECH FOCUS

BREAKFAST BRIEFING – EV Tech Leaders Forum Electric dreams? Breaking barriers, integrating technologies

Are the next 5 years make or break for a global EV reality?

Moderator – Caroline Hayes, Technology Journalist, **Ruiva Media**

Introduction: Overview of the global EV automotive market **Patrick Schaufuss**,
Engagement Manager, **McKinsey & Company, Inc**

Panel Discussion

Professor Dave Greenwood, Head of Advanced Propulsion, **University of Warwick**

Dr Konstantinos Laskaris, Chief Motor Designer, **Tesla Inc.**

Prof. Dr. ir. Thierry Coosemans, Team Leader, Electric and Hybrid Vehicles,
Power Electronics and Electrical Machines (PEEM), **MOBI Research Centre**,

University of Brussels

Dr Yves Burkhardt, Head of Motor Engineering and Simulation, **Valeo Siemens eAutomotive**

Dr Sigrid Jacobs, Portfolio Director Electrical Steel, Global R&D, **ArcelorMittal**

In partnership with:



CENTRAL THEATRE

10:40 - 11:20

EV TECH FOCUS

Innovations in magnet wire for the high voltage power train

Toshinobu Harada, Chief Technology Officer, **Essex Furukawa**

Moderator – Caroline Hayes, Technology Journalist, **Ruiva Media**

In partnership with:



WORKSHOP HUB

10:50 - 11:35

Combining numerical optimization and simulation methods –

A change of the design paradigm?

Farid Zidat, Senior Application Engineer, **Altair**

In partnership with:



CENTRAL THEATRE

11:35 - 12:15

IHS MARKIT FOCUS

Industry 3.0 vs. 4.0: A vision of the new manufacturing world

Alex West, Principal Analyst, Smart Manufacturing & Industrial Communications,
IHS Markit Technology

CENTRAL THEATRE

12:30 - 13:10

CLOSING KEYNOTE – A FUTURE POSSIBILITIES SESSION

Hyperloop - The fifth mode of transportation

Alex Jedinger, Electromagnetic Design Engineer, **Hyperloop | One**

Moderator – Caroline Hayes, Technology Journalist, **Ruiva Media**

YOUR GLOBAL COMMUNITY



**CWIEME
CHICAGO**

www.coilwindingexpo.com/chicago
3-5 October 2017 DESCC Chicago

**CWIEME
BERLIN**

www.coilwindingexpo.com/berlin
19-21 June 2018 Messe Berlin

**CWIEME
ISTANBUL**

Istanbul Fuar Merkezi, DTM
Istanbul Expo Center, WTC
2-4 Kasım/November 2017

**CWIEME
SHANGHAI**

cn.coilwindingexpo.com
26-28 March 2018 SWECC

