

1st International Conference



E|PTS

Production Technologies
and Systems for E-Mobility

June 5 and 6, 2024
Bamberg, Germany

Program Brochure 2024

Sponsored by:



Friedrich-Alexander-Universität
Erlangen-Nürnberg



A conference held by:



ABOUT E|PTS

The future megatrends of increasing power consumption, CO₂ reduction, urbanization, and mobility, along with automation and digitalization, highlight the critical role of efficient production technologies and systems. The electrification of powertrains in various mobility sectors is essential, considering the challenges posed by the substitution of conventional propulsion technologies. In addition to advancing ideas for new propulsion technologies, organizing manufacturing processes and systems is of paramount importance. The International Conference on Production Technologies and Systems for E-Mobility provides an exceptional platform for developers, researchers, and potential users to share their experiences. The conference focuses on presenting highly innovative products, manufacturing processes, and strategies from diverse industries. Furthermore, an accompanying industrial exhibition, complementary poster presentation, and an engaging social program will enhance the overall experience. The conference showcases cutting-edge e-mobility technologies.

ON-SITE ORGANIZATION

Opening time conference:

Wednesday, 5 June 2024, 08:00 AM - 05:15 PM

Thursday, 6 June 2024, 08:00 AM - 04:30 PM

Phone: +49 162 2423573

PUBLICATION

All scientific fullpapers accepted and registered will be part of the proceedings of E|PTS. The scientific contributions will be presented orally in various sessions or as poster presentations. It is intended that the E|PTS proceedings, which will include all scientifically accepted papers, will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.

ABOUT E PTS	2
FOREWORD BY THE CONFERENCE HOST	3
INTERNATIONAL CONFERENCE COMMITTEE	4
TIME SCHEDULE – OVERVIEW	5
TIME SCHEDULE – DETAILED – DAY ONE	6
TIME SCHEDULE – DETAILED – DAY TWO	8
PARTICIPANTS	10
BECOME A SUPPORTER	12

CONTACT



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FOREWORD BY THE CONFERENCE HOST



Dear distinguished experts in E-mobility!

As the world continues to embrace the transition to a more sustainable future, electromobility stands at the forefront of this transformation. With electric vehicle registrations in Germany poised to exceed previous records, it's clear that the push for cleaner, greener transportation options is gaining momentum. This evolving landscape extends its influence beyond personal transport, reshaping industries and urban environments alike, as we collectively steer towards an eco-friendlier horizon.

We're excited to introduce the first-ever E|PTS conference, hosted in Bamberg by the Institute FAPS in cooperation with the wbk Institute of Production Science of the Karlsruhe Institute of Technology as well as the chair for Production Engineering of E-mobility Components of the RWTH Aachen University. This pioneering event will highlight the expansive field of electromobility, featuring keynotes from the CEO of WAFIOS, CEO of Caresoft Global and CEO of e.Volution.

E|PTS will cover a wide array of topics, from next-gen electric vehicles and battery technology to charging infrastructure and mobility policies. This conference is a unique platform for unveiling new research, innovations, and strategies, supported by expert insights and opportunities for networking. Our exhibit will showcase the latest technologies from industry leaders, offering personalized consultations to meet your specific needs.

Join us in Bamberg for two days filled with insightful discussions and opportunities to connect with peers and industry leaders. E|PTS 2024 promises to be a beacon for those eager to explore the future of electromobility.

We look forward to welcoming you to Bamberg for an inspiring journey into the world of electromobility.

A handwritten signature in blue ink that reads "Jörg Franke". The signature is fluid and cursive, with a large initial "J" and "F".

Prof. Dr.-Ing. Jörg Franke

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Prof. Schulze J.
Fraunhofer IISB

Prof. Söderberg R.
Chalmers University of Technology

Prof. Sutherland J.W.
Purdue University

Prof. Thiede S.
University of Twente

Prof. Tracht K.
University of Bremen

Prof. Urban N.
Deggendorf Institute of Technology

Prof. Vrabič R.
University of Ljubljana

Prof. Zaeh M.
Technical University of Munich

TIME SCHEDULE - OVERVIEW

WEDNESDAY, 5 JUNE 2024	
08:00 AM	Registration & Welcome Coffee
09:00 AM	Opening of the Conference Prof. Franke J., Friedrich-Alexander-Universität Erlangen-Nürnberg
09:05 AM	Upgrading the circular economy in automotive engineering Prof. Schuh G., e.Volution GmbH
09:40 AM	Innovative production solutions through scalable, flexible hairpin production Dr. Weigmann U.-P., CEO WAFIOS
10:15 AM	Coffee Break
	Track 1
	Track 2
10:45 AM	Electric Drives Production I Prof. Fleischer J., Karlsruhe Institute of Technology
	Production Systems I Prof. Kampker A., RWTH Aachen University
12:15 PM	Lunch Break & Exhibition in Foyer
01:45 PM	Power Supply & Transfer I Dr. Risch F., BMW AG
	Power Electronics Production I Prof. Schulze J., Fraunhofer IISB
03:15 PM	Coffee Break
03:45 PM	Battery Production I Prof. Christiansen S., Fraunhofer IKTS
	Lifecycle Assessment I Prof. Döpfer F., Fraunhofer IPA
06:30 PM	Evening Reception
THURSDAY, 6 JUNE 2024	
08:00 AM	Registration & Welcome Coffee
	Track 1
	Track 2
08:45 AM	Electric Drives Production II Prof. Urban N., TH Deggendorf
	Production Systems II Prof. Dix M., Fraunhofer IWU
10:15 AM	Coffee Break
10:45 AM	Power Supply & Transfer II Prof. Parspour N., University of Stuttgart
	Power Electronics Production II Prof. Jung M., Hochschule Bonn-Rhein-Sieg
12:15 PM	Lunch Break & Exhibition in Foyer
01:45 PM	Battery Production II Dr. Rahlfs S., TU Berlin
	Lifecycle Assessment II Prof. Hanenkamp N., FAU Erlangen-Nürnberg
03:15 PM	Coffee Break
03:25 PM	Global automotive modular evolution in electric vehicles Vachaparampil M., CEO Caresoft Global
04:00 PM	Best Paper Award & Closing Words

TIME SCHEDULE - DETAILED - DAY ONE

Wednesday, 5 June 2024

08:00 AM	Registration & Welcome Coffee	
09:00 AM	Opening of the Conference Prof. Franke, Jörg, Friedrich-Alexander-Universität Erlangen-Nürnberg	
09:05 AM	Upgrading the circular economy in automotive engineering Prof. Schuh, Günther, CEO e.Volution GmbH	
09:40 AM	Innovative production solutions through scalable, flexible hairpin production Dr. Weigmann, Uwe-Peter, CEO WAFIOS	
10:15 AM	Coffee Break	
	Session 1: Electric Drives Production I Hegelsaal 1 Prof. Fleischer, Jürgen, Karlsruhe Institute of Technology (DE)	Session 2: Production Systems I Hegelsaal 2 Prof. Kampker, Achim, RWTH Aachen University (DE)
10:45 AM	Optimizing the productivity of the linear winding of rectangular shaped coils using a servo-based wire tensioning system <i>Schröder, David, Karlsruhe Institute of Technology</i>	Blockchain architecture for process-level traceability of continuous mixing process in battery cell production <i>Otte, Simon, Karlsruhe Institute of Technology</i>
11:15 AM	A review of electromagnetic simulation and modelling approaches for the research on axial flux synchronous machines <i>Schäfer, Adrian, University of Stuttgart</i>	Experimental setup for evaluation of electrical face contacts for high-current applications <i>Prof. Dix, Martin, Fraunhofer IWU</i>
11:45 AM	The production process chain of axial flux motors: A comparative study <i>Baader, Marcel, Institute FAPS / FAU</i>	Quality monitoring of hairpin joints using optical coherence tomography and machine learning <i>Raffin, Tim, Institute FAPS / FAU</i>
12:15 PM	Lunch Break & Exhibition in Foyer	

	Session 3: Power Supply & Transfer I Hegelsaal 1 Dr. Risch, Florian, BMW AG (DE)	Session 4: Power Electronics Production I Hegelsaal 2 Prof. Schulze, Jörg, Fraunhofer IISB (DE)
01:45 PM	Inductive charging - What you can expect <i>Prof. Parspour, Nejila, University of Stuttgart IEW</i>	Electrifying the road: Disruptive shifts in automotive value creation <i>Streloke, Ludwig, Institute FAPS / FAU</i>
02:15 PM	Comparative efficiency analysis in recuperative electrical drives: A study of LVDC vs. LVAC <i>Gutwald, Benjamin, Institute FAPS / FAU</i>	Comparative study on different methods to generate synthetic data for the classification of THT solder joints <i>Thielen, Nils, Institute FAPS / FAU</i>
02:45 PM	Production technologies for electrified road systems <i>Dr. Kühn, Alexander, Institute FAPS / FAU</i>	Ultrasonic welding of leadframe based mold modules on AMB substrates in the e-mobility <i>Finzel, Tobias, Vitesco Technologies</i>
03:15 PM	Coffee Break	
	Session 5: Battery Production I Hegelsaal 1 Prof. Christiansen, Silke, Fraunhofer IKTS (DE)	Session 6: Lifecycle Assessment I Hegelsaal 2 Prof. Döpfer, Frank, Fraunhofer IPA (DE)
03:45 PM	Comparison of longitudinal wrinkle formation during calendaring of NMC811 and LFP cathodes <i>Wurba, Ann-Kathrin, Karlsruhe Institute of Technology</i>	Circular economy and electromobility <i>Prof. Döpfer, Frank, Fraunhofer IPA (DE)</i>
04:15 PM	High-speed-gluing in battery cell manufacturing: Structured analysis and roadmap for elevating the technology-readiness-level <i>Ohrenberg, Joost, TU Berlin</i>	Sustainable manufacturing practices: A systematic analysis and guideline for assessing the industrial product carbon footprint <i>Funk, Felix, Institute FAPS / FAU</i>
04:45 PM	Atmospheric plasma spraying for copper coating of ceramic solid electrolytes for anode-free solid-state batteries with increased interfacial contact <i>Fröhlich, Jan, Institute FAPS / FAU</i>	Recycling concept for electric vehicle drives in the context of rare earth recovery <i>Ihne, Thorsten, Institute FAPS / FAU</i>
06:30 PM	Evening Reception at Rauchbierbrauerei Schlenkerla	

TIME SCHEDULE - DETAILED - DAY TWO

Thursday, 6 June 2024

08:00 AM	Welcome Coffee	
	Session 1: Electric Drives Production II Hegelsaal 1 Prof. Urban, Nikolaus, Deggendorf Institute of Technology (DE)	Session 2: Production Systems II Hegelsaal 2 Prof. Dix, Martin, Fraunhofer IWU (DE)
08:45 AM	Comprehensive review and systemization of the product features of axial flux machines <i>Drexler, David, RWTH Aachen University</i>	Cable fixation strategies for automated cable and wire harness plugging in electric vehicle manufacturing <i>Dr. Glodde, Arne, TU Berlin</i>
09:15 AM	Efficiency Increase of Asynchronous Motors using Casting Technology Approaches <i>Fuchs, Georg, Technical University of Munich</i>	Value innovations in E-Automotive production systems - Applying blue ocean strategy to build the factory of the future <i>Prof. Büchler, Jan-Philipp, FH Dortmund</i>
09:45 AM	A simulation-based approach to optimize variant flexible hairpin stator production <i>Bajah, Yazan, RWTH Aachen University</i>	Integrating logistics and production systems for optimized electric heater manufacturing in the automotive industry <i>Kühn, Oliver, Fraunhofer IGP</i>
10:15 AM	Coffee Break	
	Session 3: Power Supply & Transfer II Hegelsaal 1 Prof. Parspour, Nejila, University of Stuttgart (DE)	Session 4: Power Electronics Production II Hegelsaal 2 Prof. Jung, Marco, Hochschule Bonn-Rhein-Sieg (DE)
10:45 AM	Wireless inductive power supply of electric vehicles while driving along the route <i>Prof. Russer, Peter, Technical University of Munich</i>	Production technologies for frame and overmolded Si and SiC power modules <i>Dr. Goth, Christian, Vitesco Technologies</i>
11:15 AM	The global need for wireless electric road systems <i>Dr. Wendt, Andreas, ElectReon</i>	Laser structuring of stamping grids enables efficient production of media tight connectors for battery packs, power electronics and cooling systems for edrives <i>Dr. Hertweck, Benjamin, KERN-LIEBERS</i>
11:45 AM	Physics-informed neural networks to predict the power transmission of electric road systems <i>Prof. Lohbreier, Jan, Technische Hochschule Nürnberg Georg Simon Ohm</i>	Concept for automated cable harness production <i>Streloke, Ludwig, Institute FAPS / FAU</i>

12:15 PM	Lunch Break & Exhibition in Foyer	
	Session 5: Battery Production II Hegelsaal 1 Dr. Rahlfs, Sina, Technische Universität Berlin (DE)	Session 6: Lifecycle Assessment II Hegelsaal 2 Prof. Hanenkamp, Nico, Friedrich-Alexander-Universität Erlangen-Nürnberg (DE)
01:45 PM	Indentation tests on battery electrodes to estimate the target gap of battery calenders <i>Kößler, Florian, Karlsruhe Institute of Technology</i>	Next generation of protection & thermal management materials for 800 V drives under the aspect of sustainability <i>Kuschnerus, Mario, ELANTAS Europe</i>
02:15 PM	Investigation on defects of battery pouch cell housing <i>Schmidgruber, Nils, Karlsruhe Institute of Technology</i>	Cost modell for agile battery cell manufacturing <i>Henschel, Sebastian, Karlsruhe Institute of Technology</i>
02:45 PM	Elevating battery manufacturing quality <i>Turc, Virginie, Hexagon Manufacturing Intelligence</i>	„Unboxed manufacturing“ as a path to sustainable BEV factories <i>Prof. Schönmann, Alexander, Technische Hochschule Ingolstadt</i>
03:15 PM	Coffee Break	
03:25 PM	Global automotive modular evolution in electric vehicles Vachaparampil, Mathew, CEO Caresoft Global	
04:00 PM	Best Paper Award Prof. Jung, Marco, Hochschule Bonn-Rhein-Sieg (DE)	
04:05 PM	Closing Words Prof. Franke, Jörg, Friedrich-Alexander-Universität Erlangen-Nürnberg (DE)	

PARTICIPANTS

	<p>The Chair of Production Engineering of E-Mobility Components (PEM) at RWTH Aachen University stands for pioneering research and innovation in the field of electromobility. The PEM team is developing the production processes of electric vehicles and their individual components. An equally important focus is on recycling and the development and safety of batteries. In all areas, application-oriented research projects are complemented by numerous industrial collaborations.</p>
	<p>The ALTANA Group develops and produces high-quality, innovative specialty chemical products. Our four divisions BYK, ECKART, ELANTAS and ACTEGA set global standards in their markets. With innovative products, we are already enabling technologies of the future that make life easier, safer and more convenient.</p>
	<p>Always being one step ahead and shaping the mobility of the future is a key part of our corporate philosophy. That is why the BMW Group is constantly working to find progressive solutions for the issues of the future today. Innovation has deep roots at the BMW Group and is the driving force behind every idea. Whether in the automotive sector or beyond - through partnerships and cross-industry cooperation, we strive to be pioneers of innovation.</p>
	<p>Electreon is the leading provider of wireless charging solutions for electric vehicles (EVs). We deliver cost-effective, end-to-end charging infrastructure and services, including dynamic charging wireless Electric Roads, to fleet operators via flexible business models to accelerate electric vehicle adoption.</p>
	<p>The Institute for Factory Automation and Production Systems (FAPS) at Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) develops innovative drive concepts and production technologies, transferring scientific findings to industrial applications. The E Drive Center focuses on analyzing and optimizing the production-oriented design and manufacturing processes of components and systems for electrical drives. It also addresses the manufacturing and testing of inductive charge electric vehicle components, supporting the automotive industry's shift to electric drive systems and enhancing knowledge transfer in Bavarian industries.</p>
	<p>Fraunhofer IEE conducts research in the fields of energy economics and energy systems technology. It develops solutions for economic and technical problems in the transformation of energy supply systems. Our research focuses aggregate the necessary skills to realize the business areas. They include the skills and experience of our scientists, their equipment with laboratories and test facilities, their networking in the scientific community as well as patents and IPRs.</p>
	<p>The Fraunhofer Institute for Large Structures in Production Engineering IGP in Rostock focuses its research on tasks in the field of production and manufacturing of large structures. On the basis of applied research, concepts for product and process innovations are developed and realized for many future industries such as shipbuilding and steel construction, energy and environmental technology, rail and commercial vehicle construction as well as mechanical and plant engineering within the framework of research and development projects with our cooperation partners.</p>
	<p>The Fraunhofer IISB in Erlangen specializes in wide-bandgap semiconductors and efficient power electronics. Here, material and component expertise merges with complex system development, especially for electromobility and sustainable energy supply.</p>
	<p>As a research and technology service provider, Fraunhofer IKTS develops modern high-performance ceramic materials, industry-relevant manufacturing processes and prototype components and systems in complete production lines up to pilot scale. The research portfolio also includes expertise in materials diagnostics and testing. Testing methods in the fields of acoustics, electromagnetics, optics and microscopy make a significant contribution to the quality assurance of products and systems.</p>
	<p>Hexagon's Manufacturing Intelligence Division enables manufacturers to innovate and design without limits. Our solutions support optimization across the entire product lifecycle, empowering designers to create better products for people and the planet in new, innovative ways.</p>
	<p>Founded in 1995, Hochschule Bonn-Rhein-Sieg is a dynamic and research-oriented university of applied sciences. It is located in Sankt Augustin, Rheinbach and Hennef. Students can expect a practice-oriented course of study based on current research findings in around 40 degree programmes. Research at H-BRS is also conducted intensively and hands-on - numerous research institutes cover a wide range of topics from detection technologies, genetics, sustainable development, resource conservation, security research or visual computing.</p>
	<p>The institute's research work focuses on two main areas: electrical machines and contactless energy transmission. Both areas are key topics in the field of electromobility. The scientists at iew are researching the design of electric motors with very high torque density and position-tolerant inductive charging systems. The aim is to develop highly efficient components for electric vehicles of the future.</p>
	<p>KERN-LIEBERS, a medium-sized family business based in south-west Germany, is a global technology leader in the manufacture of highly complex parts and assemblies with a focus on springs and stamped parts. The KERN-LIEBERS Group develops and manufactures precision steel strip and wire products of the highest quality at over 40 locations worldwide.</p>

 <p>PACK LitzWire for a better power efficiency</p>	<p>As a company specialising in fine wires and HF stranded wires, we have been supplying renowned national and international customers, even in small quantities, quickly, individually and flexibly via our worldwide agencies for over 80 years.</p>
<p>SCHAEFFLER GRUPPE</p>	<p>Schaeffler is a leading global manufacturer in the automotive and industrial sectors, specializing in the development and manufacture of precision components and systems for engines, transmissions and chassis as well as rolling and plain bearing solutions. With a strong focus on research and development, Schaeffler drives innovation to increase the efficiency, reliability and sustainability of vehicles and machines. Schaeffler is committed to the mobility of the future by developing solutions for electric mobility, digitalization and renewable energies. Schaeffler's global presence and commitment to excellence secure it a leading position in the market, with the aim of driving technological progress and contributing to a greener world.</p>
	<p>Schlaeger is a competent manufacturer of mechatronic components in the fields of actuators and sensors for customers in the international automotive, electrical engineering and medical industries. For 30 years, the company has been supplying major Tier 1 suppliers worldwide with millions of units. The modern company designs customized and innovative solutions for each customer and manufactures everything from prototypes to large-scale production at the highest level of cleanliness.</p>
<p>SIEMENS</p>	<p>With around 86,000 employees and several thousand trainees, Siemens is one of the largest private employers and training companies in Germany. As a leading technology group with a focus on industry, infrastructure and mobility, we are shaping the transition to the digital age together with our customers and partners.</p>
	<p>Ohm takes up trend-setting, technical and social challenges and helps to shape them innovatively. Its success in applied research and development shows how much the Ohm lives up to its claim: It is one of the top-performing universities in this field.</p>
	<p>At the Institute for Machine Tools and Factory Management our research and teaching activities are geared towards the technology and management of industrial factory operations and encompass both the development of process technologies and production facilities as well as their information technology modeling. Scientists are currently working on the "digital factory" in twelve interdisciplinary fields. The aim is to map and network product development, production planning and production using information technology in such a way that product development and life cycles can be simulated, verified and optimized end-to-end.</p>
	<p>We inspire, support and develop talents in all their diversity to become responsible, open-minded personalities and enable them to shape the progress of innovation for people, nature and society with the highest level of scientific and technical expertise, with entrepreneurial courage and socio-political sensitivity, and with a lifelong openness to education.</p>
	<p>The University of Stuttgart is one of the leading technically oriented universities in Germany. In research, it has developed clear priorities at the international forefront. With its strong profile in research and its particularly pronounced interdisciplinary cooperation, the "Stuttgart way", the University of Stuttgart is one of the most successful universities in Germany.</p>
	<p>Vitesco Technologies is a leader in developing innovative, efficient powertrain technologies for sustainable mobility. Specializing in electrification solutions, Vitesco enables the automotive industry to reduce emissions and transition towards electric vehicles. Their portfolio includes electric drives, electronic controls, sensors, and actuators, all designed to enhance vehicle performance and efficiency. With a commitment to innovation and sustainability, Vitesco Technologies plays a crucial role in shaping the future of transportation, making it cleaner and more sustainable. Through partnerships and a focus on advanced technologies, Vitesco is at the forefront of driving the automotive industry towards a greener future.</p>
	<p>WAFIOS is a global leader in the manufacturing of wire and tube processing equipment, renowned for its innovative engineering and precision machinery. Specializing in a wide range of machines for bending, forming, straightening, cutting, and welding, WAFIOS supports industries ranging from automotive to construction with high-quality solutions. Their commitment to technology advancement ensures that clients benefit from machines that optimize production efficiency, enhance product quality, and reduce operational costs. With a history rooted in tradition yet focused on the future, WAFIOS continues to set industry standards through continuous research and development. Their global network and comprehensive service offerings guarantee customer support from initial consultation through to after-sales services, making WAFIOS a trusted partner in shaping the future of wire and tube processing.</p>
	<p>The wbk Institute of Production Engineering at KIT focuses on application-oriented research in production technology, emphasizing areas like electromobility, hybrid lightweight construction, and additive manufacturing. It investigates adapting traditional production methods to new materials and designs scalable systems for future factories. With advanced facilities, the wbk offers excellent conditions for research, aiming to integrate process, system, and automation understanding towards networked factories. Engaging in joint projects with industrial partners, the institute develops solutions for a broad spectrum of production technology challenges, preparing for the future of manufacturing.</p>

BECOME A SUPPORTER

Are you interested in supporting E|PTS 2024 and presenting your company or organization? E|PTS 2024 is the ideal platform for the individual advertising of your innovative products and services. For further information, please contact Benedikt Scheffler (phone: +49 162 2423573; e-mail: benedikt.scheffler@faps.fau.de)

REGISTRATION

Please register online via the registration formula at www.e-pts.de. After we have received your registration, we will send you a confirmation and an invoice, which we would ask you to settle before the event begins. In the event of cancellations received after 31 May 2024 the full participation fee will be billed. However, a replacement participant can be designated. The event organizer reserves the right to change the time of the whole event or individual parts of it or to alter or cancel it at short notice.

CONFERENCE FEE **

Standard Fee	1195,00 €
Reduced Fee*	795,00 €
One Day Fee	795,00 €

* Reduced fee for international program committee members, speakers (including one paper), participating co-authors and university members. Fees will be charged for additional paper.

** Please note that all fees listed are net prices and are subject to VAT.

CONTACT



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VENUE



E|PTS 2024 is scheduled to be held at the Congress Centrum Bamberg, Germany. To cater to your accommodation needs, we have made arrangements with various hotels located throughout the city. The event takes place at the Konzert- und Kongresshalle Bamberg, Mußstraße 1, 96047 Bamberg.

EVENING RECEPTION

All participants of E|PTS 2024 are invited to the E|PTS 2024 Evening Reception on 5 June 2024, 6:30 PM. Detailed technical discussions are guaranteed and accompanied by a regional menu. The event will take place at Rauchbierbrauerei Schlenkerla, Dominikanerstraße 6, 96049 Bamberg.

www.e-pts.de