Bildquelle: VDI Wissensforum GmbH

81st International Conference on Agricultural Engineering

LAND.TECHNIK 2024

The Forum for Agricultural Engineering Innovations

The following topics will be discussed:

- **Vehicle Guidance, Assistant and Safety Concepts**
- **Sensor Technologies, Standardization**
- **Networking and Automation, Process Automation, Data Integration in Agricultural Engineering, Digital Innovation**
- **Harvesting Technologies, Parameter Measurement in Farming, Cultivation**
- **Innovative Technologies, Innovations through AI Technologies**
- **Sustainable Energy and Irrigation Systems, Energy Solutions and Ergonomics Assessment**

+ Land.Technik Get-together
5. November 2024

+ Exhibition

+ In cooperation with

EurAgEng

Scientific Chairman

Prof. Dr. Henning Meyer, Technische Universität Berlin, Germany

An event organized by VDI Wissensforum GmbH
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November 6th–7th 2024,
Osnabrück, Germany

Eve of the Conference
Tuesday 5th November 2024

LAND.TECHNIK Get-together

The Agrotech Valley Forum is a leading innovation cluster of internationally successful companies and scientific institutions in agricultural systems technology.

In this research association, which focuses on the economic region of north-west Germany, corporate partners from the fields of agricultural technology, sales and service, software development and leading research institutions are working across the boundaries of business, science and administration to address the challenges of agriculture.

This pooling of expertise in the digital transformation of the farming and food industry, particularly in the area of agricultural systems technology, has made the Agrotech Valley Forum an internationally significant incubator for sustainable food production.

Date: 5th November 2024, 18:00-22:00

Adress: Aula, Schloss Osnabrück, Neuer Graben 29, 49074 Osnabrück

Quelle: FG HM

The LAND.TECHNIK Get-together takes place with generous support by the agricultural engineering industry.

Register for the free LAND.TECHNIK Get-together with the Registration form or with your online registration for the conference at www.vdiconference.com/ageng

1st Conference Day
Wednesday, 6th November 2024

08:00 Registration

Plenary Session (Kongress Saal)

10:00 Welcoming Address and Opening Remarks: VDI MEG
Dr. Markus Demmel, Chairman of Max Eyth Society for Agricultural Engineering (VDI-MEG), Freising, Germany

10:30 Agrotech Valley: Shaping the future of Agricultural Engineering
Dr. Henning Müller, Chairman of the Board, Agrotech Valley Forum e.V., Osnabrück, Germany

11:00 Coffee Break

Vehicle Guidance (Kongress Saal)
Moderation: Prof. Dr.-Ing. Cornelia Weltzien, Head of Department and Chair at University, Leibniz Institute for Agricultural Engineering and Bioeconomy (ATB), Potsdam, Germany

11:30 Track Planning – an implements point of view
Moritz Roeingh B. Sc., Head of Product Management and Marketing, Competence Center ISOBUS e.V., Osnabrück, Germany

12:00 Guiding principles and challenges in the context of environment perception and geofencing in the agricultural application domain
Alexander Grever M. Sc., Team Leader for software development, Maschinenfabrik Bernard Krone GmbH & Co. KG, Spelle, Germany,
Alexander Tauber M. Sc., Lemken GmbH & Co. KG, Alpen, Germany

12:30 Automatic track guidance in high-standing maize crops
Robert Konradt M. Sc., Research Assistent, Institute of Mobile Systems, Otto von Guericke University Magdeburg, Germany

Combine Harvester (Room 8)
Moderation: Dr.-Ing. Thomas Göres, Vice President SF Advanced Development, CLAAS Selbstfahrende Erntemaschinen GmbH, Harsewinkel, Germany

Modelling two-dimensional separation approach for rotor units of combine harvesters
Marvin Barther M. Sc., Development Engineer, CLAAS Selbstfahrende Erntemaschinen GmbH, Harsewinkel, Germany

Digital Twins in Agricultural Engineering: Benefits in Developing New Combine Harvester Concepts
Benedikt Thy M. Sc., Research Assistant, Prof. Dr.-Ing. Hubert Korte, Faculty of Agricultural Sciences and Landscape Architecture, University of Applied Sciences Osnabrück, Germany

Study on the use of DEM for the threshing process
Dr.-Ing. Christian Korn, Chair of Agricultural Systems and Technology, TU Dresden, Germany, Kenneth Düring Jensen, AGCO A/S – Innovation Center Randers, Denmark

13:00 Lunch Break

Eve of the Conference
Tuesday 5th November 2024

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Dr. Henning Müller, Chairman of the Board, Agrotech Valley Forum e.V., Osnabrück, Germany

11:00 Coffee Break

Cultivation (Room 9)
Moderation: Dr. Max Bouten, Product Director, Kverneland Group Mechatronics B.V., Nieuw-Vennep, The Netherlands

11:30 CF-Plough – an innovative solution for climate protection, soil fertility and yield security
Dipl.-Ing. Fabian Fröming, Development Engineer, LEMKEN GmbH & Co. KG, Alpen, Germany, **Marisa Gerriets,** Research Assistant, Leibniz Centre for Agricultural Landscape Research (ZALF), Müncheberg, Germany

12:00 Potential for increasing the efficiency of active soil tillage in crops, which are cultivated in ridges
Dipl.-Ing. (FH) Kai Dernjac, Development Engineer, Ansgar Lange gen. Detert, Grimme Landmaschinenfabrik GmbH & Co. KG, Damme, Germany

12:30 A new approach of in-row-weeding sugar beets – using GNSS-localization of crops high pressure water jets weeding
Daniel Mayer M. Sc., Research Assistant, Prof. Dr.-Ing. Albert Stoll, Hochschule für Wirtschaft und Umwelt Nürtingen – Geislingen (HfWU), Nürtingen, Germany

13:00 Lunch Break

Standardization (Kongress Saal)

Moderation: Johann Witte M. Sc., Head of Advanced Development Process Automation, CLAAS Selbstfahrende Erntemaschinen GmbH, Harsewinkel, Germany

Networking and Automation (Room 8)

Moderation: Dr. Nicolas Hummel, Digitization expert for Agricultural Machinery, VDMA e. V., Agriculture Machinery, Frankfurt, Germany

14:00

AEF – Digital Camera Systems – A new project team working on an AEF Functionality for High-Speed ISOBUS
Niklas Niebrügge M. Sc., Development Engineer, ANEDO GmbH, Barnstorf Eydelstedt, Germany, Dennis Schäfer B. Eng., Motec GmbH, Hadamar, Germany

Radio technologies for infrastructureless M2M communication for Ag applications around the world
Heikki Keränen M. Sc., Head of Technology, Satel Oy, Salo, Finland

14:30

Introducing the AEF Autonomy in AG Project
Alexander Grever M. Sc., Team Leader for software development, Maschinenfabrik Bernard Krone GmbH & Co. KG, Spelle, Germany, Ph.D., Ryan Abel, CNH Industrial, Sioux Falls, USA

Human-centred scenario analysis for highly automated swarm systems: Future work roles and user interface requirements for field robotics
Dipl.-Ing. Helge Wanta, Dipl.-Ing. Sebastian Lorenz, Chair of Industrial Design Engineering, Technische Universität Dresden, Germany

15:00

Integrating High-Speed Data Communication via Automotive Ethernet with a Service-Oriented Architecture Established using SOME/IP in Agricultural Machinery
Andreas Lohmann M. Sc., Embedded Software Engineer, Maschinenfabrik Bernard Krone GmbH & Co. KG, Spelle, Germany

Field Trials and Evaluation Methods for Sensors used in Perception Systems for Autonomous Machinery with Respect to SOTIF
Christoph Krause M. Sc., Researcher, Deutsches Forschungszentrum für Künstliche Intelligenz GmbH, Osnabrück, Germany Dr. Sebastian Röttgermann, LEMKEN GmbH & Co. KG, Alpen, Germany

15:30

ISOBUS Migration From CAN to Ethernet – Doing it Right From the Beginning
Dipl.-Ing. (FH) Peter Fellmeth, International Strategic Customer Consultant, Dipl.-Inf. Martin Schlodder, Vector Informatik GmbH, Stuttgart, Germany

Operation and investigation of adaptive mesh networks to increase the connectivity of agricultural machinery
Dipl.-Ing. Julian Hagert, Research Assistant, Prof. Dr.-Ing. Habil. Thomas Herlitzius, Chair of Agricultural Systems and Technology, Technische Universität Dresden, Germany

16:00 Coffee Break

Innovations through AI Technologies (Kongress Saal)

Moderation: Dr. Henning Müller, Research Department Plan-Based Robot Control, German Research Center for Artificial Intelligence (DFKI), Osnabrück, Germany

Process Automation (Room 8)

Moderation: Christoph Stumpe M. Sc., Research Associate, Fundamentals of Agricultural Engineering, Institute of Agricultural Engineering, University of Hohenheim, Stuttgart, Germany

16:30

Green Revolution: AI for Precise Weed and Pest Control
Prof. Dr.-Ing. Dipl.-Math. Katja A. Rösler, Professor for automotive engineering, Kevin Szelechowicz, University of Appied Science, Mülheim, Germany

SpeeDiFlow – Non-invasive measurement of air speed and direction
Dipl.-Ing Andi Günther, Chair of Agricultural Systems and Technology, Technische Universität Dresden, Germany, Sebastian Müller, miunske solutions GmbH, Großpostwitz, Germany

17:00

Accelerating the AI lifecycle with the AgriGaia-Platform
Prof. Dr. Heiko Tapken, Tobias Wamhof M. Sc., Faculty of Engineering and Computer Science, University of Applied Sciences, Osnabrück, Germany

Field evaluation insights of a novel optical sorting approach suitable for mobile operation on a potato harvester
Markus Brinkmann M. Sc., Development Engineer, Julian Roß M. Sc., GRIMME Landmaschinenfabrik GmbH & Co. KG, Damme Germany

17:30

Distributed Edge-Cloud Intelligence and AI for Large-scale Agricultural Production Systems
Alexander Wagner M. Sc., Intelligent Solutions Group, John Deere GmbH & Co. KG, Kaiserslautern, Germany, Dipl. Ing., Andreas Locatelli, TTControl GmbH, Wien, Austria

Tillage Quality Measurement: Surface Roughness Analysis using Height Profiles
Marina Graf M. Sc., Project Engineer, AGCO GmbH, Marktoberdorf, Germany

18:00 Short Break

Plenary Session (Kongress Saal)

18:15 Awarding of the VDI-MEG Prizes

19:00 Get-together

At the end of the first day of the event, we invite you to a Get-together. Take advantage of the relaxed atmosphere to expand your network and to have in-depth discussions with other participants and speakers

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(2024, June)

Innovative Technologies (Room 9)

Moderation: Dipl.-Ing. Herbert Coenen, Uniparts India Ltd./Noida, India

14:00 **V-Model Approach for Developing Safe Environment Perception Systems for Autonomous Machinery**
Magnus Komesker M. Sc., Research Assistant, University of Applied Science Osnabrück, Germany, Dr.-Ing. Christian Meltebrink, SICK AG, Waldkirch, Germany

14:30 **Precise trunk localization using the example of in-row weeding in vineyards**
Dipl.-Ing. Tobias Blume, Project Engineer, AGCO GmbH, Marktoberdorf, Germany, Max Rasumak M.Sc., Program Manager Off-Highway Vehicle, ITK Engineering, Lollar, Germany

15:00 **Field Path Detection for Tractors - Based on Acceleration Measurements and Multibody System Simulations**
Dipl.-Ing. Dr. techn. Gernot Jedinger-Pauschenwein, Senior Analysis Engineer, Dipl.-Ing. Dr. techn. Wilhelm Fuchs, AVL List GmbH, Graz, Austria

15:30 **Implementation of a real-time plant detector for a selective grassland weeding machine using high-pressure water jets**
Ingo-Leonard Haußmann M. Sc., Research Assistant, Prof. Dr.-Ing. Albert Stoll, Hochschule für Wirtschaft und Umwelt Nürtingen-Geislingen, Germany

16:00 **Coffee Break**

Sustainable Energy and Irrigation Systems (Room 9)

Moderation: Dr. rer. agr. Dipl.-Ing. Thomas Hoffmann, Head of System Process Engineering, Leibniz Institute for Agricultural Engineering and Bioeconomy (ATB), Potsdam, Germany

16:30 **Production and utilization of methane from cowshed gas on farms**
Christina Gerdes M. Eng., Research assistant, Felix von Arnim M. Sc., Institute Mobile Machines at the Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany

17:00 **Draft force evaluation of a deep ploughing technology for the installation of geothermal collectors under arable land**
Dipl.-Ing. Jakob Münch, Research Assistant, Béla Burkert, Chair of Agricultural Systems and Technology, Technische Universität Dresden, Germany

17:30 **Holistic concept of technical solutions for subsurface drip irrigation of major crops in humid central European growing conditions**
Dr. rer. nat. Wolfram Strothmann, General Manager, Christian Scholz, SLS Systementwicklungen GmbH, Osnabrück, Germany

18:00 **Short Break**

Young Professionals meet VDI-MEG (Room 2)

Join us for an informational and networking afternoon session **"Young Professionals meet VDI-MEG".**
The program will describe various VDI-MEG activities and gives the unique opportunity to meet members from VDI-MEG.
Max Eyth Society for Agricultural Engineering (MEG) represents a technical division of the Association of German Engineers (VDI).
The short presentations will be followed by an informal **social networking session.**
Learn more about VDI-MEG and find out how you can get involved with this organization who are promoting the profession of Agricultural Engineering and the people who serve it.

Plenary Session (Kongress Saal)

18:15 **Awarding of the VDI-MEG Prizes**

19:00 **Get-together**
At the end of the first day of the event, we invite you to a Get-together. Take advantage of the relaxed atmosphere to expand your network and to have in-depth discussions with other participants and speakers

Official Conference Language

The official language of the conference will be English.
Simultaneous translation will not be available.

2nd Conference Day
Thursday, 7th November 2024

Data Integration in Agricultural Engineering (Kongress Saal)
Moderation: Noack

09:00 **Facilitating seamless collaboration: Secure decentralized group management in interoperable wireless in-field communications**
Dr.-Ing. Daniel Steinmetzer, Lead Engineer, **Dr.-Ing. Milan Stute,** ITK Engineering GmbH, Rülzheim, Germany

09:30 **Current situation of automatization standards in farm machinery and FMIS from dealer perspective**
Dr.-Ing. Steffen Wöbcke, Head of Aftersales, Agrartechnik Vertrieb Sachsen GmbH, Ebersbach, Prof. Dr.-Ing. Habil. Thomas Herlitzius, Technische Universität Dresden Germany

10:00 **Decentral and Central Technologies combined to one DataXChange System – a technical view**
Dr. Johannes Sonnen, Managing Director, **Dipl.-Inf. Oliver Rahner,** DKE-Data GmbH & Co. KG, Osnabrück, Germany

10:30 **EU Data Act: Data governance as an enabler**
Dr.-Ing. Patrick Altschuh, Senior Consultant Data Strategy and Governance, ITK Engineering GmbH, Rülzheim, Germany Dr. Stefan Held, ITK Engineering GmbH, Holzkirchen, Germany

Parameter Measurement in Farming (Room 8)
Moderation: DI Dr. Peter Riegler-Nurscher, Area Manager, Josephinum Research, Wieselburg, Austria

Fusing SAR and Weather with Physics-Inspired ML for Improved Soil Moisture Estimation
Titli Das M. Sc., PVV Engineer, Reliability, John Deere GmbH & Co. KG, Mannheim, Germany

Systematic Data Selection for Enhanced Nutrient Prediction and Monitoring in Manure Using NIR
Leonard Friedrich M. Sc., Research Assistant, Institut für Theoretische Elektrotechnik und Mikroelektronik (ITEM), Universität Bremen, Germany

Detection of Rumex obtusifolius L. in Grassland using Multispectral Images and Deep Learning
Jonathan Heil, Research Assistant, J. Prof. Dr. rer. nat. Anthony, Stein, Artificial Intelligence in Agricultural Engineering, University of Hohenheim, Stuttgart, Germany

Long term validation for app based chop quality estimation for silage maize
Dr.-Ing. Sven Belau, Development Engineer, CLAAS Selbstfahrende Erntemaschinen GmbH, Harsewinkel, Germany

11:00 **Coffee Break**

Energy Solutions and Ergonomics Assessment (Kongress Saal)
Moderation: Dr. Magnus Schmitt, Deputy Managing Director, VDMA e. V., AG Machinery, Frankfurt, Germany

12:00 **Fuel cell electric agricultural tractor FCTRAC: operation strategy, homologation, benchmarking, and field testing**
Dr. Johannes Konrad, Institut für Fahrzeugantriebe und Automobiltechnik, Technische Universität Wien, Austria, **Christian Mayer, M. Sc.,** Tractor Product Engineer – BEV, CNH Industrial Österreich GmbH, St. Valentin, Austria

12:30 **Is fast charging relevant and beneficial for agricultural machinery?**
Ing. David Mühlgrabner, Technical Expert E/E Powertrain, AVL List GmbH, Steyr, Austria, Dipl.-Ing. (FH) Ronald, Kruth, AVL Deutschland GmbH, Neuss, Germany

13:00 **Evaluation of adaptive operating concepts on agricultural tractors in a laboratory test rig to assess cognitive and physical ergonomics**
Björn-Gerrit Hülle M. Sc., Institute of Agricultural Engineering, University of Hohenheim, Marcel Racs M.Sc., Institute for Construction Technology and Technical Design, University of Stuttgart, Germany

Digital Innovation (Room 8)
Moderation: Dr. Thomas Anken, Head Digital Production, Sustainability assessment and agricultural management, Agroscope, Ettenhausen, Switzerland

Unpacking the opportunities and limitations of data spaces in agriculture
Raghad Matar M. Sc., Software Architect, Dr.-Ing. Rodrigo Falcão, Fraunhofer-Institut für Experimentelles Software Engineering IESE, Kaiserslautern, Germany

Potential of agricultural machinery data for the evaluation of travel times
Lukas Lange M. Sc., Research Assistant, Prof. Dr.-Ing. Henning J. Meyer, Chair Machinery System Design, Technische Universität Berlin, Germany

Training neural networks for tramline detection in an autonomous driving tractor using synthetic images
Silko Schulpius M. Sc., Project Engineer, AGCO GmbH, Wolfenbüttel, Germany, Dr.-Ing. Jan Schattenberg, Institute of Mobile Machines and Commercial Vehicles, Technische Universität Braunschweig, Germany

13:30 **Short Break**

Plenary Session (Kongress Saal)

13:45 **Engineering for Tomorrow's Agricultural Ecosystem**
Deanna M. Kovar MBA, President, Worldwide Agriculture & Turf Division: Small Agriculture and Turf Care, Europe, Africa, and Asia, John Deere, Mannheim, Germany

14:15 **Closing Remarks**
Prof. Dr. Henning Meyer, Chair Machinery System Design, Technische Universität Berlin, Germany

14:30 **Refreshments and conclusion of the conference**

2nd Conference Day
Thursday, 7th November 2024

Assistant and Safety Concepts (Room 9)
Moderation: Dr.-Ing. Tobias Nothdurft, Manager, Research & Advanced Engineering, Premium Tractors, AGCO GmbH, Marktoberdorf, Germany

09:00 **Integration of a safety concept for an autonomous agricultural machine**
Timo Schulte B. Sc., Head of Homologation and Product Safety, KRONE Agriculture SE, Spelle, Germany, **Joost Roelse Eng.,** Head of Technical Documentation, LEMKEN GmbH & Co. KG, Alpen, Germany

09:30 **Low-Cost, Rapid Development of Object Detectors for Automation of Agriculture**
Frederick Charles Eichhorn M. Sc., Product Engineer PhD, Lea Schönland M. Sc., John Deere Europe, Kaiserslautern, Germany

10:00 **Applicable Safety Tests for Automated Agricultural Machinery and Robots**
Prof. Dr. Julius Schöning, Engineering and Computer Science, Hochschule Osnabrück, Germany

10:30 **TIM-Ready Trailer for Harvest Operations**
Marc-Alexandre Favier M. Sc., Research Assistant, Tim Burgers B. Sc., Yvan Challe M. Sc., Digital Farming, RPTU Kaiserslautern-Landau, Germany

11:00 **Coffee Break**

Sensor Technologies (Room 9)
Moderation: Dr.-Ing. Jan Schattenberg, Deputy Institute Director, Head of Workinggroup Automation and Robot Systems, Institute of Mobile Machines and Commercial Vehicles, Technische Universität Braunschweig, Germany

12:00 **Breakthrough in the development of automation functions – Bosch Imaging Radar**
Camille Marbach B. Eng., Product Manager Perception Off-Highway, Bosch Engineering GmbH, Abstatt, Germany

12:30 **Sensor breakthrough? Detection of invisible damages on potatoes before blackspot develops shown for multiple maturity stages and varieties using a tactile sensing technique**
Judith Langfermann, Development Engineer, Dr. Wolfram Strothmann, GRIMME Landmaschinenfabrik GmbH & Co. KG, Damme

13:00 **Development of a supplement to a test standard for evaluating the guidance accuracy and working quality of sensor-based technologies for weed control by use of AI**
Dr. Oliver Schmittmann, Paul Steinhausen M. Sc., Institute of Agricultural Engineering, University of Bonn, Germany

13:30 **Short Break**

Plenary Session (Kongress Saal)

13:45 **Engineering for Tomorrow's Agricultural Ecosystem**
Deanna M. Kovar MBA, President, Worldwide Agriculture & Turf Division: Small Agriculture and Turf Care, Europe, Africa, and Asia, John Deere, Mannheim, Germany

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14:30 **Refreshments and conclusion of the conference**

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Technical Chair

The Association of German Engineers (VDI) is one of the leading engineer's associations worldwide. The Max Eyth Society for Agricultural Engineering represents a technical division of the VDI. It bears the name of the founder of agricultural engineering as a distinct discipline in Germany, Max Eyth (1836-1906).
www.vdi.de/meg

The European Society of Agricultural Engineering (EurAgEng) exists to promote the professions of Agricultural and Biosystems Engineering and the people who serve it. The Society is particularly active in conferences, Special Interest Groups, publications, networking, and international lobbying.
www.eurageng.net

The VDI Wissensforum organizes and provides seminars and conferences dedicated not only to engineers but also to academics and practicians from widely divers branches of the economy. Our activities are backed by the Verein Deutscher Ingenieure e. V. (VDI), a virtually inexhaustible fund of know-how constantly attracting new ideas and suggestions.

VDI Wissensforum

81st International Conference
LAND.TECHNIK 2024

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HRS Das Hotelportal

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