Hannover Messe - AWS Theatre Schedule

May 30th - June 1st

Monday, May 30th

Time	Presenting Company	Abstract	Presenter
12:00 pm - 12:30 pm	AWS	**Smart Manufacturing in the Cloud** Kickoff Hannover Messe by hearing about how industrial companies are leveraging new digital technologies to optimize their business processes, speed innovation, and lower costs. This session covers the primary challenges industrial companies face in their digitalization journey and how the cloud can help address these challenges. See how IoT, machine learning, and other edge and cloud services, along with solutions from AWS and AWS Partners are changing the way leading industrial companies run their business.	Doug Bellin
12:30 pm - 1:00 pm	Siemens	**Scalable Digital Twin of products and production from edge to cloud** Customers can leverage AWS services, like AWS IoT TwinMaker within the Siemens Xcelerator portfolio, making it easier for customers to create digital twin solutions that can scale from the simplest to the most complex use cases.	Srinivas Raj (Siemens) Bryan O'Flaherty Wills (AWS)
1:00 pm - 1:30 pm	Deloitte	**Smart Factory as critical competitive advantage** What are critical capabilities? How can you industrialize it? What can you expect from it? Join us to get the answers to these questions and more.	Britta Mittlefehldt Stefan Klang
1:30 pm - 2:00 pm	Seeq	**Driving Syngenta's Sustainability Goals with Advanced Analytics** Syngenta's goals require improving the efficiency of its manufacturing processes and implementing site-based energy-savings programs. We will show how data analytics on time series data carried out by process engineers helps to unlock these sustainability improvements. Being equipped with innovative Advanced Analytics tools like Seeq is essential for studying their processes and scaling their solutions across the enterprise. Nitrogen gas is used to protect chemical processes by eliminating one of the legs of the "fire triangle." Seeq was used to identify faulty blanket control valves that were unnecessarily venting nitrogen.	Nicholas Gigliotti (Seeq), Stephen Pearson (Syngenta)
2:00 pm - 2:30 pm	Matterport	**The Power of Digital Twins** By turning your physical space into a digital twin, you're able to discover spatial data insights that will become valuable for your business. Learn how 3D digital twins can help you better design, build, promote and manage your spaces. See how INVISTA, a global manufacturer of chemical intermediates, polymers and fibers, used digital twins to enhance the operator and mechanic experience as well as for training, employee orientation, and office space optimization.	Brittany Schramm

2:30 pm - 3:00 pm	AWS	**Improve uptime with predictive maintenance for industrial equipment** Predictive maintenance is an effective way to avoid industrial machinery failures and expensive downtime by proactively monitoring the condition of your equipment so you can be alerted to any anomalies before equipment failures occur. However, this technology has historically been difficult to implement. In this session, learn how industrial customers can enable predictive maintenance and avoid downtime with AI services from AWS, with no machine learning experience required.	Dianne Eldridge
3:00 pm - 3:30 pm	Tech Mahindra	**Engineering Cloud** Engineering Cloud Solutions offerings include cloud transformation of PLM on hybrid cloud Multi- CAD PLM solutions with emphasized focus on Engineering Workspace which allows access of heavy compute / heavy graphic solutions on web browsers and thereby making user community to be productive from any device, be anywhere. Continuous efforts being made to accelerate sustainable innovation for Engineering R&D by enabling multitude of deployments as a touch point solutions often termed as Workload As A Service and finally enabling data accessibility between cross PLMs, same or different verticals, all that can be achieved without the need of heavy apps integration.	Mukul Dhyani
3:30 pm - 4:00 pm	42Q	**Streamlining production with an AWS-based MES** Traditional on-prem Manufacturing Execution Systems (MES) are monolithic, inflexible, and expensive to maintain and evolve over time. Learn how 42Q is enabling manufacturers to access agility, flexibility, scalability and low-cost implementations with its cloud-native MES system running on AWS.	Wellington Giolo
4:00 pm - 4:30 pm	MachineMetrics	**Revealing Hidden Capacity with MachineMetrics Industrial Data Platform for Manufacturing** Despite the promise of digital transformation, most factories today still have disconnected operations. Manufacturers need to have information in real-time in order to make quick business decisions, yet this data is rarely being captured or analyzed because until recently, it has been far too difficult to do so. It's time for manufacturing to change, and MachineMetrics has made this easy. Their platform enables any manufacturer to automate the collection, monitoring, and analysis of data from their machines, delivering actionable insights to front-line workers and to other factory systems that help drive better decisions.	Bill Bither (MachineMetrics) Matthew Townsend (Paragon Medical)
4:30 pm - 5:00 pm	AWS	**How to secure your industrial IoT applications using AWS Hybrid solutions** The cloud is everywhere and will soon be in everything, from trucks driving down the road, to the ships and planes that transport goods, to industrial machines running factories. The cloud will be globally distributed, and connected to almost any digital device or system on Earth, and even in space. This session will be a dive deep into AWS Hybrid Services for industrial transformation and how to employ AWS Hybrid services to optimize for security, risk and compliance. In this session, we will discuss the unique challenges in Operational Technology (OT) security and the 10 golden rules to secure industrial IoT (IIoT) solutions.	Ryan Dsouza

Tuesday, May 31st			
Time	**Presenting Company**	**Abstract**	**Presenter**
9:30 am - 10:00 am	AWS	**From Edge to Insight: Connect, Collect, and Transport Industrial Data for Optimization** Real-time energy industry operational data is notoriously challenging to unlock: a task complicated by disparate equipment, sensors, device protocols, remote site latency, and the challenge of data silos. Join this session to see how AWS can help you ingest and standardize your industrial IoT data across distributed sites and devices, laying the foundation for insights and innovations that enable optimization. In this session you will see and discuss highly scalable, performant, and cost-effective solutions to ingest operational data to inform plant optimization and efficiency at scale. This highly interactive session will allow industry leaders from across the energy sector to see AWS solutions applied to renewables and oil and gas operations.	Sam biddle
10:00 am - 10:30 am	Tulip	**Unlocking insights with democratized edge connectivity** Cartier is a luxury good manufacturer based in Switzerland that makes high-mix and high-value products with precious metals and stones. With complex tasks from casting to assembly and setting stones and thousands of product SKUs, the team at Cartier faced a challenge of ensuring product quality and preventing escapes. With Tulip, Cartier was able to provide intuitive apps for operators to seamless access multiple systems and edge connectivity – automating data collection. In additional to augmenting operators to help error-proof their work and increase their efficiency, Cartier was able to more effectively collect data from operators. This data gave them full traceability of parts and materials to prevent escapes and gain production visibility. To manufacturer their watches and jewelry, Cartier has very proprietary machines and customized equipment in their processes. Cartier could not digitally integrate their specialized machines. This posed a problem when they tried to improve their traceability and gain visibility into to improve their operations. With Node-Red on Tulip Hardware, Cartier can write and maintain their own drivers to communicate with their proprietary machines. Tulip is now a central part of their data collection and analytics.	Natan Linder
10:30 am - 11:00 am	Reply	**From a manufacturing expert to a digital service provider in 6 months** In this panel session, Schenck Process, the global technology and market leader in material handling and control, will share its journey from a manufacturing expert to a digital service provider. You will learn how AWS technology, combined with the right vision and strategy, empowered Schenck Process and Storm Reply to build a modular and evolutionary IoT platform tailored to their customers' needs and business challenges.	Michael Göbel (Reply), Benedikt Trumpff (Schenck Process)
11:00 am - 11:30 am	Syntax	**The road to successful digitalization: a real walk-through on Nitrex case story** Nitrex is the leading global provider of fully integrated heat-treating solutions and technologies. As part of their highly complex processes, the company was in need to reduce scrap rate, improve flow control and OEE with the challenge to work with a high number of brownfield installations and a team with knowledge spawned over multiple locations and entities. Nitrex partnered with Syntax to start their journey and optimize business results based on process and machine data analytics using industrial IoT cloud solutions based on AWS services integrated with SAP.	Jens Beck

11:30 am - 12:00 pm	AWS	**AWS Hybrid for Manufacturing: Use AWS Services at the factory floor, in metrocities and over 5G** Although Manufacturing companies are increasing their efforts for automating and digitalizing the factory floor, they are limited by the slow progress to modernize applications and infrastructure. Join us to learn more about how the fully managed AWS Outposts, Local Zones and Wavelength helps customers to extend AWS Cloud to on-premises, at metrocities and over 5G to achieve standardization, low latency, data residency and support modernization efforts while providing a consistent development and management experience.	Ethem Azun
12:00 pm - 12:30 pm	Hitachi Vantara	**Hitachi's Lumada Manufacturing Insights on AWS native services** Maximizing profits is difficult without end-to-end visibility. A typical manufacturing plant floor is a heterogeneous environment that is home to assets from different vendors, people with varying skill sets, and supply chains with complex needs. Unfortunately, most manufacturers often lack operational interconnectivity within and across these environments and forfeit insights from data that drive timely and cost-effective decision-making and also the potential capture of new opportunities. Thus, the key enabler for growth is the implementation of data-driven solutions that enable operational visibility, optimal management of assets, workforce safety, and delivered quality. Join us to find out how to get answers to critical challenges by producing insights around machine, production, and quality assets using AI-powered	Alberto Corti
12:30 pm - 1:00 pm	TensorIoT	**Digital Transformation Win-Win: Increasing Industrial Production While Decreasing Energy Consumption** Whether counting products, detecting performance changes in equipment, or simply knowing when machines are doing true value-added work, increasing situational awareness of the production environment is an important first step in the digital transformation of manufacturing operations. In this session, learn how one manufacturer was able to gain insight to quickly improve throughput by over 15% while reducing energy consumption by over 10% as part of its digital transformation journey. This initial improvement was made possible through visualization of equipment telemetry. Further improvements can be achieved with the use of machine learning, leading to even greater benefits for production and sustainability.	John Traynor
1:00 pm - 1:30 pm	Telit	**Digital Transformation – How IoT Can Increase Manufacturing Productivity** Industrial companies from all around the world are embracing digital transformation to leverage productivity. However the complexity of industrial environments can be very challenging. Understand how technology can leverage financial gains and how the right architecture can reduce the total cost of ownership of these projects, avoiding the traps of custom code, and integrating IT, OT and Cloud. Hear how Pirelli implemented the Telit and AWS Solution to enable the high-volume collection of complex machine data, orchestrate time series data and integrate data into the AWS Enterprise Data Platform. This enabled intra and inter-factory services at Pirelli thus improving their access to data, operational intelligence and identify execution actions landscape.	Bill Dykas
1:30 pm - 2:00 pm	AWS	**CPG 4.0: From Industry 4.0 to End-to-End Value Chain Digitization** Consumer Packaged Goods (CPG) companies are manufacturers with large / fast moving product volumes, and the need to sell at Retail-like scale. Whilst planning and automation can help in the early stages of digitization, Companies need to create full transparency from raw material providers to retailer inventories, link demand signals to volume forecasting, and automate supply chain operations to keep the right products stay in stock during these turbulent times.	Simon Contreras and Justin Honaman

2:00 pm - 2:30 pm	Matterport	**Using Matterport Digital Twins to Modernize Facilities Management** Matterport digital twins offer customers the ability to extract spatial data insights from real world physical spaces and transform the way they manage their facilities. Learn how Northumbrian Water, a utilities company based in the United Kingdom, and Seacomp, an electronics manufacturing company, were able to improve planning and startup times for new projects and maintenance activities, reduce site visits, enhance workforce training and modernize legacy assets.	Brittany Schramm
2:30 pm - 3:00 pm	Siemens/Mendix	**Cloud native and low code with AWS and Siemens** From personalized digital experiences to driving agility in manufacturing. Highlighting one key area of strategic collaboration with AWS and Siemens – Scalable Digital Twins.	Raffaello Lepratti
3:00 pm - 3:30 pm	Accenture	**Digitizing Engineering & Manufacturing with AWS** Companies are faced with ever-increasing customer and market demands for new and more personalized products—driving greater manufacturing complexity and stress on operations and assets. Increasing product complexity and exponential use of software and connectivity are creating massive pressures for Engineering and R&D departments. How can they succeed in this challenging environment? By using the power of data and digital to reimagine the products they make and how they make them. In this session, join Accenture to hear how, using AWS IoT, Edge and Industrial technologies, companies can lower TCO, increase R&D efficiencies, modernize shop floor application suites, improve agility and achieve faster time-to-value.	Sidharth Gambhir
3:30 pm - 4:00 pm	GE	**Digital twin for Manufacturing** This presentation will focus on the customer benefits of deploying a cloud native Data Historian for OT. We will highlight the experiences of GE Aviation and other customers. Key take-aways will include the following: • Balance the needs of the plant floor with the advantages of native cloud technologies • Deliver a foundation for operational, enterprise-wide optimization • Increase agility to run operations faster CTA – stop by GED booth to learn more. We will share a more in-depth view of GE Aviation's deployment and benefits they are achieving, as well as similar stories from several other customers.	Steve Pavlosky & Steve Friedrich
4:00 pm - 4:30 pm	AWS	**Delivering business outcomes with digital twins** Digital twins represent an exciting technology that businesses are increasingly adopting to make better operational and strategic decisions in industries such as smart buildings, manufacturing, energy, power & utilities, and other industrial operations. Learn how the new service, AWS IoT TwinMaker makes it faster and easier for developers to create and use digital twins of real-world systems like buildings, factories, industrial equipment, and production lines. We will share how customers are using digital twins to optimize building operations, increase production output, and improve equipment performance.	Bryan O'Flaherty Wills
4:30 pm - 5:00 pm	42Q	**Scalable, shop floor digital transformation with 42Q** Weir Minerals wanted to digitize its shop floor operations to reduce customer lead times and improve its ability to measure and manage customer orders through their shops. Critical to this effort was the need to provide a solution that was technically easy to implement, very flexible, easy to scale, required low Capex, and where data could easily be accessed and could be 'plugged in' to the businesses existing analytics stack. The cloud-based platform on AWS made it very easy for a wide array of users to access both the system and in-built analytics. Learn more about Weir Minerals saw a dramatic drop in Work in Process (WIP) of 20% or more across sites and an associated drop in lead times after deployment of 42Q MES.	Wellington Giolo

Wednesday, June 1st			
Time	**Presenting Company**	**Abstract**	**Presenter**
9:30 am - 10:00 am	AWS	**Optimize your industrial operations at the edge with computer vision** Computer vision (CV) can be a powerful tool to automate tasks that have traditionally required human inspection, such as evaluating manufacturing quality, improving supply chain logistics, and optimizing traffic management. In this session, learn how AWS customers are improving their industrial operations with computer vision, and how you can get started quickly with AI services from AWS.	Chelsea Render
10:00 am - 10:30 am	Seeq	**Driving Syngenta's Sustainability Goals with Advanced Analytics** Syngenta's goals require improving the efficiency of its manufacturing processes and implementing site-based energy-savings programs. We will show how data analytics on time series data carried out by process engineers helps to unlock these sustainability improvements. Being equipped with innovative Advanced Analytics tools like Seeq is essential for studying their processes and scaling their solutions across the enterprise. Nitrogen gas is used to protect chemical processes by eliminating one of the legs of the "fire triangle." Seeq was used to identify faulty blanket control valves that were unnecessarily venting nitrogen.	Nicholas Gigliotti (Seeq), Stephen Pearson (Syngenta)
10:30 am - 11:00 am	Zoi	**Daufood is ready for expansion with AWS technology** Daufood wanted to move their SAP systems to the world's leading cloud provider, AWS. Such an investment requires careful and thoughtful planning, but proper execution yields many benefits, such as better control over retail operations. For Daufood this meant better control over capacity planning, real-time data analysis and optimizing processes while also improving its IT security standards. CTA - Daufood case	Simon Meraner
11:00 am - 11:30 am	AllCloud	**Visual Quality Inspection with Amazon Rekognition** Machine Learning in Practice Increasing Quality with Automated Image Recognition. When welding motorcycle frames, flying sparks cause minute damage to the surface that cannot be painted later. Using image recognition, these tiny damages can be detected in time, automatically and in seconds. The use of "Amazon Rekognition" and "Lookout for Vision" enables a fast and reliable solution that dramatically reduces errors, damage and scrap, and conserves resources. Learn how machine learning tools from AWS can ensure automated quality assurance in manufacturing.	Julius Otto
11:30 am - 12:00 pm	AWS	**How the Industrial Cloud empowers Volkswagen Group and manufacturing industries to transform operations and boost efficiency gains** Production and logistics are playing a crucial role in becoming more efficient and sustainable. With the Industrial Cloud, Volkswagen Group is leveraging potentials by consistently networking our sites and its suppliers to increase transparency and efficiency while decreasing waste and saving resources. The centerpiece of the Industrial Cloud are industrial software solutions, provided directly from the Industrial Cloud. Various applications are already available to the plants to continuously optimize processes and workflows. Join the session to learn how this enables us to leverage considerable synergies in the production network!	Olivier Pierini (AWS), Volkswagen

12:00 pm - 12:30 pm	NordCloud	**Supercharging Manufacturing Operations with AWS** At Continental, the AWS platform has seen a wide adoption for the last years throughout all parts of the organisation. Several keynotes on IT industry events showcase how Continental are using AWS to build digital solutions for their internal and external customers. The latest being CAEdge - but surely there will be more. Our session will focus on how Nordcloud helped Continental to build and accelerate their Manufacturing Data Lake platform and how it helps Continental to increase efficiency and transparency on their production operations in the field of Tire productions. We will showcase several solutions based on the data lake platform and Continental's AWS operations model.	Thomas Baus
12:30 pm - 1:00 pm			
1:00 pm - 1:30 pm	Element Analytics	**Cloud native and low code: From personalized digital experiences to driving agility in manufacturing** Companies across manufacturing and energy sectors have a renewed focus on digital twins as enablers to improve operations and control through use cases including predictive maintenance, asset optimization and improved safety. Digital twins rely on contextualized data from disparate OT and IT sources staying up-to-date as physical changes occur. Actively managing the data models that power digital twins unlocks new use cases and value for the organization, a key consideration for modern operations teams. Join this presentation to learn: 1. How to build and scale contextualized data models in AWS IoT TwinMaker 2. Benefits of centralized data model management 3. Digital twin use case examples	Andy Bane
1:30 pm - 2:00 pm	AWS	**Migrating Enterprise Workloads to AWS** Join this session to understand how AWS can you help you navigate the process of migrating and modernizing your mission-critical enterprise applications and data to the cloud. We'll take you through use cases, decision criteria, license considerations and options, and AWS services that can help you simplify rehosting, replatforming, and relocating your applications. This session will focus on the benefits and total cost of migrating Microsoft and VMware applications using the AWS Optimization and Licensing Assessment.	Martin Alexander Santospirito
2:00 pm - 2:30 pm	Infor	**Optimizing ROI was yesterday: New times need faster time to value—with Cloud ERP** Industrial manufacturers and high tech players are facing more complex and increasing challenges: Increased pressure on supply chains, cybersecurity, maintaining or raising volumes and quality levels - and please don't forget sustainability requirements! But how to reconcile internal objectives such as operational excellence, productive agility, compliance and standardization fulfillment, supply chain optimization and the necessary degree of innovation with external influencing factors? We will show you, based on real customer projects, how industrial companies are digitally mastering the latest challenges - and how the future looks like in manufacturing: the intelligent and connected enterprise. F Gain valuable insights and results from successful cloud ERP projects and how industry leaders are successfully optimizing, manufacturing, warehousing, or delivering with Infor industry ERP suites in the cloud.	Guido Herres

2:30 pm - 3:00 pm	Tech Mahindra	**Digital Twin for Manufacturing** TechM's digital Twin offerings are built across the Product-Production-Performance value chain. Product Twin enables 3D Design Analysis, Simulation, and performance conformance. Production Twin replicates the Manufacturing shop floor in 2D or 3D. Production twin helps in Production Visibility, Production parameters & Quality Optimization, Asset Health Monitoring & Predictive Analytics. Aftermarket twin enables product Servitization and improves customer experience. It helps in User, Operating environment & Warranty Analytics.	Fares Zair
3:00 pm - 3:30 pm	MHP	**How to manage AGVs from a cloud based fleet management software** In their presentation Safelog and MHP will showcase how the MHP-FleetExecuter is deployed in an AWS-environment and remotely controls Safelog AGVs in the MHP-Lab in Ludwigsburg (Germany). The presentation will feature live video broadcast into the AGV environment and explains benefits as well as points to consider when choosing such a software/hardware deployment. Last but not least, the scalability of the application will be explained which is enabled by scalable resource infrastructure in the cloud environment.	Julian Popp (MHP), Mathias Behounek (Safelog)
3:30 pm - 4:00 pm	BCG	**Time to insight: If you could reason on top of every data point within your company, what question would you answer?** With the joint AWS & BCG go-to-market concept of "Time to Insight" we could solve the customers' most pressing data related questions from resource saving potentials, to CO2 footprint analysis, to operational efficiency, and many more. We make a highly complex technical product (AWS data brew)/ architecture concept (data mesh) tangible for our clients by explaining the business impact and transformational steps needed to unlock the value of data within their companies. At the end of the presentation, we would like to foster a discussion around potential use cases and concepts, that are relevant for customers from different industries.	Tilman Buchner
4:00 pm - 4:30 pm	AWS	**How the Cloud Can Improve Traditional OT Workloads** Over the past 40 years, OT workloads have become heavily dependent on highly reliable and low-latency networks that are capable of operation at sub-second response times. This is important to provide operational robustness that complies with existing safety regulations and industry best practices. While this proven architecture excels at traditional requirements, it's design creates a challenge on how to integrate with modern cloud practices. In this session, we will walk you through how AWS services could be used to bring cloud capabilities to your OT needs.	Rafa Borges