



# CHEMICAL INDUSTRY 4.0 SUMMIT

28<sup>TH</sup>- 29<sup>TH</sup> JUNE 2021 | VIRTUAL CONFERENCE

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28<sup>th</sup> -29<sup>th</sup> June 2021 | Virtual Conference

***“To be effective, you can’t just look at the equipment in isolation, you need to understand the process around it. By doing this we can give weeks, sometimes months, of lead times on when a piece of equipment might fail.”***

– Paige Marie Morse, Chemicals Industry Lead, Aspen Technology

## EVENT OVERVIEW

Companies in the chemicals industry will have to undergo a transformation if they desire to stay ahead. Many existing and emerging trends are already shaping the industry across the world, which include increasing competition, a shift in economic power, disruptive innovations in end markets, accelerating commoditization, sustainability, and Industry 4.0. Three key themes determine the future of chemicals now: “Growth and innovation”, “Performance and cost optimization”, and “Sustainability and circular economy”. The potential of digital to expand each of these themes is substantial, given the state-of-the-art developments happening in networks and sensors, data availability and processing, and advances in engineering and material technologies.

To sell to today’s tech-savvy consumer base effectively, chemical organizations are encouraged to implement business models that incorporate the latest IoT, cloud-based, and AI technologies into their workflows in order to stay relevant in the marketplace. Industry executives must rethink their business models to take advantage of digital technologies and those who move now to embrace this future will position themselves to be tomorrow’s high-performance businesses.

Join us at the **Chemical Industry 4.0 Summit by Trueventus**, where professionals in the chemical industry can acquire vital information on how to best leverage the latest technology to transform their business processes. Attend sessions on safety management, predictive maintenance, supply chain and logistics, and big data to better understand the best-in-class innovations in engineering and chemical technology solutions.

## WHY YOU CANNOT MISS THIS EVENT

- Design a solutions layer architecture that can efficiently support and drive your chemical organization forward while augmenting digital infrastructure and IT
- Accelerate the deployment of digital technologies that can empower day-to-day processes for maximum cost savings
- Develop a connected system incorporating Big Data and IoT for greater transparency of supply chains
- Generate higher returns on investment in innovating maintenance practices to enable uninterrupted production workflows

## WHO SHOULD ATTEND?

### Facilities & Asset Professionals

- Chief Technology Officers
- Chief Information Officers
- Technical Directors
- Operations Directors

### VPs/ Directors/ Heads/ Managers of:

- Research & Development
- IT Architecture
- Process Technology
- Process Engineering
- Strategy / Planning
- Smart Manufacturing
- Product Management

### From the following industries:

- Petrochemicals
- Basic / Commodity Chemicals
- Life Sciences
- Specialty Chemicals
- Consumer Products
- Pharmaceutical
- Organic Chemicals
- Inorganic Chemicals
- Fertilizer Manufacturing
- Dye & Pigment Manufacturing
- Chemical Product Manufacturing
- Supply Chain & Logistics

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## FEATURING PRESENTATION AND CASE STUDIES BY DISTINGUISHED SPEAKERS



**Alexander Radach**  
Principal  
**DuPont Sustainable Solutions,**  
**Thailand**



**Promsak Jaranyagorn**  
Vice President Marketing & CRM  
**PTG Energy Public Company Limited,**  
**Thailand**



**Dr. Kaveh Javani**  
Director  
**CMG Group, Malaysia**



**Rawaida Kamarudin**  
Senior Data Analyst  
**PETRONAS, Malaysia**



**Piriyapong Wongras**  
Engineering and  
Maintenance Manager  
**Huntsman Textile Effects, Thailand**



**Ankit Saxena**  
Global Product Line Manager  
**Allnex, Malaysia**



**Duncan Lee**  
Principal Engineer  
**Intel Corporation, Malaysia**



**Dr. Li Feng**  
Senior Consultant, AM Lead - Global  
Additive Manufacturing Centre of  
Excellence  
**DNV GL, Singapore**



**Ts. Asrar Majid**  
Assistant Manager,  
Instrumentation  
**Novugen Pharma, Malaysia**



**Boon Wee Phua**  
Manager (Operations)  
**TechnipFMC, Singapore**



**Mohd Hazaruddin Muhammad**  
Assistant Reliability Management  
**BASF PETRONAS Chemicals,**  
**Malaysia**



**Pushkar Pendse**  
Principal Consultant  
**TÜV SÜD, Singapore**



**Dr. Mikko J. Rissanen**  
AR/XR/VR Developer & Consultant  
**Improventions, Malaysia**



**Nuzul Adzwan**  
QA/QC Manager  
**Brooke Dockyard, Sarawak**



**Taufiq Tan**  
Secretary General  
**KAPENAS, Malaysia**



**Haziq Farhan**  
Operation Integrated Scheduler  
**Shell, Malaysia**

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## Day One: Monday 28<sup>th</sup> June 2021

0800 Registration

0850 Opening keynote address

0900 Session One

### Industry 4.0: Navigating Efficiency and Innovation in the Modern Chemical World – Why Both Is A Must

- Leading the company into a sustainable and profitable future
  - Transforming the organization structure to adopt new technologies
  - Provide Industry 4.0 roadmap towards digital manufacturing
- Alexander Radach**, Principal  
**DuPont Sustainable Solutions, Thailand**

0945 Session Two

### Finance 4.0, Predictors, Risk and Opportunities for Internationalization of Chemical Industries

- Understand how chemists and engineers leverage scientific and commercial information to make better decisions in R&D, EHS, and manufacturing
- Enable stakeholders across product development to collaborate more effectively
- Explore Industry 4.0 technologies that can help increase productivity and allow companies to mitigate risks

**Dr Kaveh Javani**, Director  
**CMG Group, Malaysia**

1030 Morning break

1100 Session Three

### SMART factory concept

- Enable greater control over batch consistency and quality
- Reduce unwanted process variability by gaining oversight over internal processes, such as raw material dosing, temperature control, residence times, system fouling, and aging catalysts
- Identify patterns and deviations in chemical processes before they occur to reduce production risks

**Priyapong Wongras**, Engineering and Maintenance Manager  
**Huntsman Textile Effects, Thailand**

1145 Session Four

### Digitalizing Efficiency: Employing modelling simulation techniques to gain better understanding of operations and the performance of the final product

- Cut down development time for a new product exponentially with data-led insights into chemical reactions
- Validate automation configurations by being able to identify and correct data inconsistencies and errors
- Design the plant structure, machinery, and piping models more accurately to improve workflow

**Duncan Lee**, Principal Engineer  
**Intel Corporation, Malaysia**

1230 Networking luncheon

1400 Session Five

### Optimize maintenance spend and improve asset efficiency through predictive or digital maintenance

- Utilize the continuous feed of data collected from sensors on critical equipment to identify patterns with advanced analytics tools to predict and diagnose possible breakdowns
- Collect data from similar equipment installed in different sites for comparison and use for predictive maintenance, performance optimization, and design of new facilities
- Improve aftermarket performance by facilitating the simultaneous relay of machine performance information to both the chemicals company and the equipment manufacturer

**Ts. Asrar Majid**, Assistant Manager, Instrumentation  
**Novugen Pharma, Malaysia**

1445 Session Six

### Predictive Asset Management: Develop failure prediction models using real-time monitoring to evaluate cause-and-effect relationships in equipment failure

- Generate automated alerts and recommendations based on equipment performance
- Gather structured data from sensors as well as unstructured data from maintenance records, training records, and other sources
- Reduce the likelihood of unplanned downtime and increase operational expenditure savings losses in production

**Mohd Hazaruddin Muhammad**, Assistant Reliability Management

**BASF PETRONAS Chemicals, Malaysia**

1530 Afternoon break

1600 Session Seven

### All-Round Feedback: Closing control loops on production lines through sensor-based quality inspection

- Identify manufacturing errors more effectively without interrupting production flow
- Leveraging the use of advanced cameras and scanners to improve the visual inspection of work pieces
- Incorporate defect detection seamlessly at an earlier stage to minimize rework and scrapped pieces

**Nuzul Adzwan**, QA/QC Manager

**Brooke Dockyard, Sarawak**

1630 Session Eight

### Safety Throughout the Lifecycle: Harness connected technologies to continuously monitor chemical products, by-products, and any generated waste to maintain high safety standards

- Consider the application of drones equipped with cameras to inspect hard-to-reach or dangerous plant locations and equipment
  - Improve the overall efficiency of maintenance engineers and safety of the plant and surrounding areas
- (Speaker to be advised)**

1700 Session Nine

### Virtual Guidance: Mastering 3-D visualization and virtual reality for training operators and maintenance staff

- Supplement on-the-job, in-context training with VR technology that allows collaboration with peers and individual/collective performances to be monitored by instructors
- Heighten operators' awareness by enabling them to "walk" across a simulated plant, "work" with the equipment and instruments, and "handle" safety situations
- Augment maintenance instructions by overlaying them onto physical assets to help workers better understand tasks and how to complete them

**Dr. Mikko J. Rissanen**, AR/XR/VR Developer & Consultant  
**Improvements, Malaysia**

1730 End of day one

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## Day Two: Tuesday 29<sup>th</sup> June 2021

0830 Registration

0850 Opening keynote address

0900 Session One

### Top-Down Accessibility: Developing a new corporate dashboard for senior leadership to envision the value of digitizing legacy processes

- Seamlessly link data collected from operations to inform key data metrics
- Plan out what organizational redesign is necessary for efficiency with clear insights into business processes
- Allow for accurate estimation at the planning stage of the emissions that will result from a new process

**Promsak Jaranyagorn**, Vice President Marketing & CRM  
PTG Energy Public Company Limited, Thailand

0945 Session Two

### Data-Led Enterprise: How data analysts can ensure that IT, logistics and production of chemicals meet your company targets

- Observe real-time data throughout the product development lifecycle and interpret it for meaningful insights
- Conduct accurate risk assessments with data analytics to avoid failures in the future
- Maximize profit by using smart AI-powered tools and trackers to optimize planning and budgeting

**Rawaida Kamarudin**, Senior Data Analyst  
PETRONAS, Malaysia

1030 Morning break

1100 Session Three

### When Demand Meets Insight: Employing predictive analytics and machine learning algorithms to enrich and improve the accuracy of demand forecasting

- Use analytics to discern order patterns
- Analyze demand-influencing variables with machine learning to derive an accurate and granular demand plan

**Ankit Saxena**, Global Product Line Manager  
Allnex, Malaysia

1145 Session Four

### Industry adoption of 3D Printing and its quality assurance

- A useful process for replacing parts that are unavailable or infrequently manufactured when needed
- Complement or replace conventional manufacturing techniques and potentially cut costs
- "On demand" production of parts can drive sustainability and reduce wastage

**Dr. Li Feng**, Senior Consultant, AM Lead - Global Additive Manufacturing Centre of Excellence  
DNV GL, Singapore

1230 Networking luncheon

1400 Session Five

### Look at Things Digitally: Leveraging the use of virtual real-time models for troubleshooting

- Collect all of a product's data over its entire lifespan – from development, manufacture, operation, servicing and repair – and store them in a virtual model
- Continuously optimize the design and manufacturing process throughout the complete product life-cycle
- Allow for condition monitoring and predictive maintenance, identifying wear and tear before damage occurs

**Boon Wee Phua**, Manager (Operations)  
TechnipFMC, Singapore

1445 Session Six

### Seamless Operation: Upgrading Plant components and systems with AI, machine learning and cloud software to perform tasks more independently and self-run diagnostics

- Establish the necessary requirements for modular machines and facilities to share critical production data
- Enable the self-organization of production systems
- Reduce the complexity for machinery operators by facilitating automated production changes

**Haziq Farhan**, Operation Integrated Scheduler  
Shell, Malaysia

1530 Afternoon break

1600 Session Seven

### People in Industry: Why Industry 4.0 initiatives cannot neglect the digital enablement of workers

- Being people-centric and not tool-centric is the key to sustaining long-term support of Industry 4.0 technologies
- Human-machine collaboration enables workers to make continuous improvement of processes
- Establish adaptive workplace ergonomics, digital assistance functions, and ability amplifiers for your workers' benefit

**Taufiq Tan**, Secretary General  
KAPENAS, Malaysia

1630 Session Eight

### Strategic Digital Framework: Sustaining big data collection and supporting the pickup of new technologies

- Enable better protection of company data and up-to-date compliance with cybersecurity measures
- Make operations flexible and collaborative by allowing operators to access documents or business application programs remotely with mobile apps
- Minimize expenses including server maintenance and software licensing

**Pushkar Pendse**, Principal Consultant  
TÜV SÜD, Singapore

1700 Session Nine

### Reducing costs through analyzing cost implication by performing operational analytics

- Leverage the help of cognitive computing to quicken the decision-making process
- Perform a more efficient root-cause analysis by capturing knowledge from real-time data
- Use IoT utility products to measure expenses accurately  
(Speaker to be advised)

1730 End of conference

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## COMPANY DETAILS

Name	Industry
Address	
Postcode	Country
Tel	Fax

### REGISTER NOW

**John Karras**  
T: +603-2775 0067  
E: [johnk@trueventus.com](mailto:johnk@trueventus.com)  
Take a Snapshot or Scan and Email us  
<https://www.linkedin.com/in/john-karras-a454a6a>

### SPONSORSHIP AND EXHIBITION OPPORTUNITIES

Limited packages are available.

For further details, contact:

**John Karras**  
T: +603-2775 0067 E: [johnk@trueventus.com](mailto:johnk@trueventus.com)

## ATTENDEE DETAILS

1	Name	Job Title
	Tel	Email
2	Name	Job Title
	Tel	Email
3	Name	Job Title
	Tel	Email
4	Name	Job Title
	Tel	Email
5	Name	Job Title
	Tel	Email

## APPROVAL

NB: Signatory must be authorised on behalf of contracting organisation.

Name	Job Title
Email	
Tel	Fax
Authorising Signature	

## COURSE FEES

	Corporate
Virtual Delegate	USD 995

**S** KL-EN182

## PAYMENT METHODS

Payment is due in 5 working days. By Signing and returning this form, you are accepting our terms and conditions.

By Cheque  
 Bank Transfer  
 Credit Card

## TERMS & CONDITIONS

- The course fee is inclusive of the event proceedings, materials, refreshment and lunch.
- Upon receipt of the complete registration form, invoice will be issued. Trueventus request that all payments be made within 5 working days of the invoice being issued. Full payment must be received prior to the event. Only delegates that have made full payment will be admitted to event. Clients are responsible for their own banking fees and banking fees will not be absorbed into the booking price.
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- All Trueventus events are held in a classroom or theater format.
- All Trueventus events are held at either 5 or 4 Star Hotels.



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