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**The AIChE Netherlands / Belgium Section  
is pleased to invite you to attend the Lecture Dinner Meeting**

## **Control strategy, related to remote control and cyber security for Industrial networks**

**By Ruud Denneman, Functional Safety and Control  
Engineering Specialist TOTAL E&P NEDERLAND B.V.**

**Thursday, September 15<sup>th</sup> 2016  
Golden Tulip Hotel, Zoetermeer**

### **Program**

18.00 – 18.30	:	Registration & Cocktails
18.30 – 19.30	:	Lecture
19.30	:	Dinner

### **Summary**

The Internet is a potential attack vector for computers if connected, but the Stuxnet worm demonstrated that even equipment controlled by computers not connected to the Internet can be vulnerable to physical damage caused by malicious commands sent to industrial equipment (in that case uranium enrichment centrifuges) which are infected via removable media. In 2014, the Computer Emergency Readiness Team, a division of the Department of Homeland Security, investigated 79 hacking incidents at energy companies.

This presentation presents a control strategy related to remote control and cyber security for Industrial networks. How to migrate threads to industrial automation, measurement and control equipment and systems. What are the metrics to measure the level of protection against cyber security? Experiences and best practises, future developments and directions as well as the view of others in this area are discussed. As example the improvement of an existing Gas Operation Control systems to ensure compliance with future operational and regulatory requirements is discussed.

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#### **Information / Secretariat**

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## Professional background of the speaker

Ruud Denneman is Bachelor of Science and works for Total E&P Nederland B.V. as Team Leader Process automation Group and Project Manager for ICSS projects and his experience varies from operations through maintenance, engineering, project management to standardization. He is chairman of the WIB PCD Security Metrics Task Force, an international group of Instrument and Control & Automation Engineers, who launched three years ago the first Industry Standard on PCD Security Requirements for Vendors, which is the basis of a new IEC Standard (IEC 62443-2-4).

## Route to Golden Tulip Hotel Zoetermeer

Kinderen van Versteegplein 18, 2713 HB Zoetermeer

### From Utrecht (A12)

Take the A12 towards The Hague. Take exit 7 Zoetermeer / Pijnacker. At the traffic lights turn right and you will be on the Oostweg. Follow the Oostweg until you get to a roundabout. Take the roundabout 3 quarters onto the Australiëweg. Take the tunnel on the Australiëweg which changes into the Europaweg. Once out of the tunnel follow the signs "Den Haag A12 / Andere Wijken". At the second traffic lights towards "Wijk 12+13" turn left onto the Van Leeuwenhoeklaan, directly turn right onto the Boerhaavelaan. At the end of the Boerhaavelaan you can find the Golden Tulip hotel on your left hand.

### From The Hague/ Rotterdam / Amsterdam (A12)

Take the A12 towards Utrecht. Take exit 6 Zoetermeer Centrum. Turn left onto the Afrikaweg. At the second traffic lights towards "Wijk 12+13" turn right onto the Van Leeuwenhoeklaan, directly turn right onto the Boerhaavelaan. At the end of the Boerhaavelaan you can find the Golden Tulip hotel on your left hand.

### Public Transport

The hotel is located a mere 40 meters from train station "Zoetermeer" (track Utrecht The Hague, The Hague - Utrecht) and only 20 meters distance from station "Driemanspolder" (Lightrail no. 3 The Hague – Zoetermeer Centrum-West, Zoetermeer - The Hague)

The hotel has a number of private parking spaces and free parking spaces in nearby streets.

**REGISTRATION AIChE LECTURE DINNER MEETING September 15<sup>th</sup> 2016**

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cyber security for Industrial networks**

**by Ruud Denneman, Functional Safety and Control Engineering Specialist  
TOTAL E&P NEDERLAND B.V.**

**Thursday, September 15<sup>th</sup> 2016, 18.00 hours  
Venue: Golden Tulip Hotel Zoetermeer**

Yes, I wish to participate in above meeting.

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If there are any changes of your Office-address, please inform our secretariat: [secretary@aiche.nl](mailto:secretary@aiche.nl).

After receiving your registration form we will expect you to be present at the Lecture Dinner Meeting unless we receive your cancellation in writing 24 hours prior to the event.

Registration by E-mail: [secretary@aiche.nl](mailto:secretary@aiche.nl)