"Excellent- Very experienced and knowledgeable speakers."
Petroleum Development Oman, UK Oil and Gas Cyber Security 2013 Attendee

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4th in the series, SMi present

OIL AND GAS CYBER SECURITY

3rd & 4th JUNE 2014

Quality Hotel 33, Økern | Oslo, Norway

Securing the future of the industry against the continued cyber threat

In association with:

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TOP RANKED SPEAKER FACULTY INCLUDE:

- **H.M. Ambassador Jane Owen, British Embassy, Norway**
- **Gal Luft,** Co-Director, Institute for the Analysis of Global Security, Senior Adviser, **United States Energy Security Council**
- **Nuri Fattah,** Director, **DefenceCorp**
- **Ewen MacDonald,** Lead Instrument and Systems Engineer, **Total E&P**
- **Spencer Summons,** Head of Information Assurance and IS Governance, **Tullow Oil**
- **Paul Charchaflian,** European Sales Director, **Waterfall Security Solutions**
- **Ammar Qatan,** Information Technology Manager, **Salalah Methanol Company**
- **Gomeet Pant,** Information Security Manager, **Cairn India**
- **Bandar Mesned Al Saifi,** Data Network Engineer, **Saudi Aramco**
- **Siv Hilde Houmb,** Associate Professor II, NISlab, **Gjøvik University College**
- **Arne Røed Simonsen,** Senior Advisor, **Norwegian Business and Industry Security Council (NSR)**
- **Gianluca D'Antonio,** Chief Information Security Officer, Information Security & IT Risk Management, **FCC Citizen Services**

PLUS TWO INTERACTIVE POST CONFERENCE WORKSHOPS I 5TH JUNE, 2014

A: NETWORK MONITORING AND SITUATIONAL AWARENESS FOR OIL &GAS OT INFRASTRUCTURE
Workshop Leader: DR Damiano Bolzoni, Chief Operating Officer, SecurityMatters BV
8.30am - 12.30pm

B: CYBER SECURITY INCIDENT HANDLING FOR OIL & GAS
Workshop Leaders: Dr Siv Hilde Houmb, CEO, Secure-NOK
13.30pm - 17.00pm

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CPD CERTIFIED

08.30 **Registration & Coffee**

09.00 **Welcome introduction**
David Alexander, Principal Consultant,
Regency IT Consulting

OPENING ADDRESS
09.10 **H.M. Ambassador Jane Owen, British Embassy, Norway**

09.30 **Gap between threats and preventive measures - Head findings in The Norwegian Business and Security Council's Information Security and Cybercrime survey 2012**
- Norway is facing similar trends as the rest of the world, cyber-attacks are increasing at an alarming rate.
- Most companies are unprepared to handle such attacks
- Companies are more and more dependent on IT
Arne Røed Simonsen, Senior Advisor, **Norwegian Business and Industry Security Council (NSR)**

10.10 **Morning Coffee**

10.40 **Innovation in Industrial Perimeter Security**
- Real-Time SCADA protection
- Historian systems protection
- NERC / CIP Compliance
- Hardware based unidirectional Data Transfer
- Secure remote monitoring and management
Paul Charchaflian, European Sales Director,
Waterfall Security Solutions

WATERFALL

11.20 **Strategies for Protecting and Handling Targeted Sophisticated Attacks (such as Stuxnet)**
- What if the Macondo explosion was a deliberate cyber security attack?
- Targeted sophisticated attacks (such as Stuxnet) - their characteristics
- Strategies for detecting and handling targeted attacks
- Collaborative Incident Response on Oil and Gas installations
- Center for Cyber and Information Security - Gjøvik University College
Siv Hilde Houmb, Associate Professor II, NISlab,
Gjøvik University College

12.00 **Networking lunch- Sponsorship opportunities available**

OPERATOR CASE STUDIES- PART 1

13.20 **Industrial Systems – Practical Security**
- We have the Technology, but what else do we need to consider?
- Firewalls, DMZ, Password Protection, AntiVirus Protection etc. We have much in the way of technological solutions which help in protecting your IT infrastructure from the Cyber Opportunists. But is it enough?
- What are the other options that you have to consider if you are wanting to protect your Industrial IT infrastructure?
Ewen MacDonald, Lead Instrument and Systems Engineer,
Total E&P

CASE STUDY

14.00 **The cyber security indicator**
- SMC background & context
- Cyber-attacks, the digitized poor's weapon
- Why these companies are under attack
- Alert level should be matched with a cyber-security indicator
Ammar Qatan, Information Technology Manager,
Salalah Methanol Company

CASE STUDY

14.40 **Afternoon Tea**

15.10 **Behind the meter: Securing the energy that powers oil & gas systems**
- The neglected vulnerability that goes into oil & gas systems
- Islanding and distributed energy applications for oil & gas systems
- Technological solutions to secure energy systems
- Risk reduction and recovery methods
Dr Gal Luft, Co-Director, Institute for the Analysis of Global Security, Senior Adviser, **United States Energy Security Council**

15.50 **Industrial Control Systems Security**
- Introduction- where are ICS attacks being targeted?
- ICS vs. IT World- Creating a comprehensive security framework
- Security Framework- How to improve protection levels against cyber threats
- Risk Tolerance Levels- 3 parts to identifying associated risks Threat vulnerability and consequence
- Conclusion- Achieving the desired security confidence level
Bandar Mesned Al Saifi, Data Network Engineer,
Saudi Aramco

CASE STUDY

16.30 **Chairman's Closing Remarks and Close of Day One**
David Alexander, Principal Consultant,
Regency IT Consulting

Evening Drinks Reception
British Ambassador's Residence, Oslo

08.30 **Registration & Coffee**

09.00 **Chairman's Opening Remarks**
David Alexander, Principal Consultant,
Regency IT Consulting

OPERATOR CASE STUDIES- PART 2

OPENING ADDRESS

09.10 **If you can spot it, you can stop it – defending against the new norm**
- CISO's generally accept that by just doing the basics within recommended guidelines they can reduce risk. So why is it so difficult to achieve? We battle with budget and headcount restraints, incorrect perceptions of what security does, increasing and varying security frameworks, highly dynamic operating environments, and sometimes we just don't talk the money making language enough, that's a skill in itself and another story
- Investing in better visibility and an understanding of what and how attacks seek to achieve their aim is one element of a security program that should carry weight. After all – what do we mean by a breach? A corporate machine breached with a first stage attack but which can be seen, means: it can be tracked; it can be investigated; it can be stopped; the vulnerability can be identified; and it can be concluded if and what type of data was lost. So what are the barriers to being more transparent - share price?

Spencer Summons, Head of Information Assurance and IS Governance, **Tullow Oil**

09.50 **Being (in)secure by choice, not by chance**
- How do you protect an Industrial Control System (ICS) in an effective manner?
- Cyber Security is not about adding firewalls and anti-virus software, it takes a lot more to be and to stay protected. But how do you determine what is appropriate for your plant? Different industries require different levels of security
- What is the difference and how can we express this in concrete security measures?
- Risk based security management provides you with a sustainable method to achieve a protected ICS in an effective manner that improves safety, security, reliability

Sinclair Koelemij, Technical Lead IITS EMEA, **Honeywell Process Solutions**

10.30 **Morning Coffee**

11.00 **Securing the unsecured with eyes wide open – A holistic approach to achieve cyber security**
- Introduction to the world of cyber security technologies. What are the various technologies and how they help
- What should be the approach for using the various technologies? What to use when and how.
- What should be the Key focus: People or Process or Technology? How to prioritize while making sure all three progress together
- Creating a security roadmap for long term security

Gomeet Pant, Information Security Manager, **Cairn India**

PANEL DISCUSSION

11.40 **Securing against the unknown- The future outlook for cyber security**
- How cyber is changing the nature of conflict and crisis management
- Cyber security governance in oil and gas companies
- Examples of approaches adopted by oil & gas companies
- Future tasks and challenges

Siv Hilde Houmb, Associate Professor II, NISlab, **Gjøvik University College**
David Alexander, Principal Consultant, **Regency IT Consulting**
Ewen MacDonald, Lead Instrument and Systems Engineer, **Total E&P**

12.20 **Networking lunch- Sponsorship opportunities available**

13.30 **Defending Networks through Simulation**
- Do you know what a cyber-attack looks like?
- Can you defend your networks against all types of attacks?
- Do your vendor tools really protect you?
- The best way to test your controls, staff, procedures and strategies

Nuri Fattah, Director, **Defence Corp**

LIVE DEMO

14.10 **Network Monitoring and Situational Awareness for Operational Technology in Oil & Gas**
- Brief overview of the current approaches, and their shortcomings
- A new non-intrusive approach for detecting misuses, operational mistakes, erroneous configurations and 0-day cyber attacks
- Use cases
- Future advances we are currently working on

Damiano Bolzoni, COO, **SecurityMatters**

14.50 **Afternoon Tea**

15.20 **Session reserved for Oil and Gas Operator**

16.00 **Cyber Exercises: A pragmatic approach to resiliency**
- Combating cyber threats is a shared responsibility
- The critical role of Private Sector in this fight
- Practicing government and private sector collaboration
- Increased interdependence among diverse groups calls for educating all participants

Gianluca D'Antonio, Chief Information Security Officer, Information Security & IT Risk Management, **FCC Citizen Services**

16.40 **Chairman's Closing Remarks and Close of Day Two**
David Alexander, Principal Consultant,
Regency IT Consulting

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Honeywell offers a systemic approach to help mitigate the risks of the evolving cyber threat landscape. We offer a complete portfolio of services and tools that employ best practices in process control and cyber security. Honeywell global experts help users develop a security scheme to preserve key assets and ensure data availability, integrity and confidentiality. Honeywell delivers a more predictable and secure environment, regardless of control system vendor. **www.honeywellprocess.com**

The Fox DataDiode serves to protect the integrity and availability of assets in an Industrial Control Systems (ICS) network. It provides a unique hardware-based, one-way data link that has been approved and certified by a large number of authorities. This allows you to enjoy the benefits of business integration by being able to send production data from an ICS network to an enterprise environment, while preventing all cyber-attacks directed at your industrial assets. **www.fox-it.com**

Waterfall Security Solutions Ltd. is the leading provider of stronger-than-firewalls protections for industrial control networks and critical infrastructures. The company's products are deployed in utilities and critical national infrastructures throughout North America, Europe, Asia and Israel. Waterfall's technologies reduce the cost and complexity of compliance with NERC-CIP, NRC, NIST, CFATS and other regulations, and include support for leading industrial applications: Frost & Sullivan describe Waterfall's solutions as ensuring "optimum security for networks across user verticals" and awarded Waterfall the 2012 Network Security Award for Industrial Control Systems Entrepreneurial Company of the Year and the 2013 North America Award for Customer Value Enhancement. **www.waterfall-security.com**

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WHY SHOULD YOU ATTEND

- Hear from leading Oil and Gas Companies to understand the requirements
- Evaluate the necessity of security and understand the need to protect against attack
- Discover the latest technology and techniques used from leading providers
- Get inside the mind-set of a hacker to understand the motive behind recent attacks
- Learn about regional issues from across the globe to give you a comprehensive understanding of the threats today
- Take away ideas on how to best improve your security for safer operations
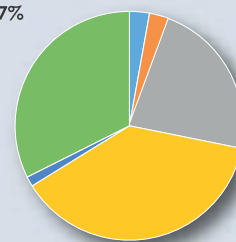
WHO SHOULD ATTEND

SMi's 3rd annual Oil and Gas Cyber Security Conference in November 2013 brought together industry leaders and key decision makers from across the globe. Held over three days the event attracted key industry experts with job title that included;

TOP 10 KEY JOB TITLES
- Chief Executive Officer
- Chief Information Officer
- Business Development Manager
- Engineering Manager
- ITC Director
- IS Security Manager
- IT Strategy Manager
- Senior ICESS Engineer
- Head of Global Information Security
- VP Strategy & Bussiness Development

Oil and Gas Cyber Security 2013 Attendee Breakdown

Oil and Gas Operator 27%
Security Provider 23%
Bank or Law 2%
Academic 2%
Consultant 6%
Public Body 1%

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A: Network Monitoring and Situational Awareness for Oil &Gas OT Infrastructure

Overview of workshop

This workshop will present solutions currently available for network monitoring and situational awareness in Oil&Gas OT infrastructure. We will analyse what are the major strengths and weaknesses of each approach, when it can be used and what is the output users can expect. We will wrap up the session discussing the DENSEK project (www.densek.eu), a EU-sponsored research project that aims at building an open-source situational awareness platform for OT networks.

Benefits of attending

Gain insight about network monitoring and situational awareness for Oil&Gas OT networks, learn about different approaches, when and how to use them. Learn about European-drive initiatives to improve resilience of Critical Infrastructure.

Time table

08.30	Registration
09.00	Introduction
09.10	Current solutions for network monitoring and situational awareness of critical networks
10.30	Coffee Break
11.00	Pro's and con's of each approach
11.40	DENSEK Situational Awareness platform
12.20	Closing remarks
12.30	End of workshop

About the workshop host:

Dr Damiano Bolzoni (1981) received his PhD in 2009 from the University of Twente, where he performed research on anomaly-based intrusion detection. Since 2008 he has been involved in securing computer networks of critical infrastructure.

Before joining the University of Twente, he has been working for the Italian branch of KPMG, within the Information Risk Management division. Since 2009 he holds the position of Chief Operating Officer at SecurityMatters BV.

About SecurityMatters

SecurityMatters is a spin-off from the Dutch Technical Universities of Twente and Eindhoven. Our research and development team participates in many different projects throughout the EU and USA and delivers cutting-edge network monitoring and intrusion detection technology to make its customers more secure and in control. SecurityMatters technology is the result of more than 20 years of research and field experience.

B: Cyber Security Incident Handling for Oil & Gas

Overview of workshop

Cyber security incidents pose unique risks in oil and gas operations with possible disastrous environmental consequences. This workshop will highlight the relationship between cyber security incidents and the environment, discuss state of the art incident handling, and why these existing approaches fail to address the unique needs of Oil and Gas, as well as discuss the need for a collaborative incident handling strategy to efficiently respond to cyber-attacks against Oil and Gas installations.

Benefits of attending

The workshop will give the participants insight into existing approaches for incident response, explain why these do not meet the unique needs for efficiently handling incidents for Oil and Gas installations and operations. The workshop will focus on the need for a collaborative incident handling strategy and why this is an essential part of cyber security protection.

Time table

13.00	Registration
13.30	Introduction
13.40	Incident Response – An Overview
14.20	Efficient Incident Response - Needs
15.00	Coffee Break
15.30	Collaborative Incident Handling
16.10	Case Study Walk-Through
16.50	Closing remarks
17.00	End of workshop

About the workshop host:

Dr. Siv Hilde Houmb is the CEO, CTO, and "White Hat Hacker" for Secure-NOK. She received her Ph.D. from the University of Science and Technology (NTNU), Trondheim, Norway in 2007, with her dissertation work on decision support methodologies and techniques to choose among sets of security solutions for critical information systems.

Previously, Dr. Houmb worked as a security specialist and risk analyst in Telenor from 1999-2011, was a guest researcher at Colorado State University (US) from 2004-2006, and held a post-doctoral at the University of Twente (the Netherlands) from 2007 to 2008. Dr. Houmb has served as a preferred security specialist for the European Telecommunication Standards Institute (ETSI) and the European Commission on topics such as RFID, car-to-car communications, privacy impact assessments, risk assessment and security evaluations for new and emerging ICT technologies, such as Next Generation Networks and Network Services.

About Secure-NOK AS

Secure-NOK AS is a cyber-security company focusing on securing industrial control systems, specifically SCADA systems for drilling controls, drilling equipment and systems, and SCADA systems for the pipeline industry and refineries. Secure-NOK AS was established in February 2010 and has offices in Houston, Texas; and Stavanger and Hamar, Norway.

Evening Drinks Reception - Hosted by

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SMI Group along with UK Trade & Investment, Oslo invites you to join them for a drinks reception at The British Ambassador's residence on the evening of the first day of the conference. This event will give delegates further opportunity to network with industry professionals in a relaxing environment. Delegates will leave Oil and Gas Cyber Security 2014 having forged new relationships and renewed existing ones.

The British Ambassador's residence in Oslo is one of Britain's 'historic residences' abroad, bought by the British government in 1906. Successive Ambassadors have been proud to live and work at 'Villa Frognæs' and to welcome all their guests to this unique legacy of Norwegian –British heritage. We look forward to seeing you there.

Credit: JCP, photographer - Johnny Vaet Nordskog

OIL AND GAS CYBER SECURITY

Conference: Tuesday 3rd & Wednesday 4th June 2014 | Quality Hotel 33, Økern | Oslo, Norway   Workshops: Thursday 5th June 2014

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Surname:

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Company/Organisation:

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