



BSCySEC - 21

5th Edition

Black Sea Maritime Cyber Security Conferences

5th edition, cyber security month, June 2021

SECTION 6: Energy Cyber Security Pandemic Threats

<https://conference.blackseacybersecurity.net/2021>

Monday, July 5, 10:00 – 13:40 (EEST)

10:00 - Opening session – Welcome speech Prof PhD Cornel Panait, President of Maritime University Senate

CHAIR: Ionut PURICA, PhD in Energetics and Economics, Corresponding member of the Academy of Romanian Scientists

Slot 1 (10:00-10:20)

Prof. PhD [Ionut Purica](#), Academy of Romanian Scientists – *Measuring the possibility of a cyberattack using a multivalent modal logic*

Slot 2 (10:20-10:40)

Assist. Prof. PhD [Sarah Lohmann](#) - University of Washington and Visiting Professor at the US Army War College – *Escalating cyberattacks and critical infrastructure resilience*

Slot 3 (10:40-11:00)

[Matias Krempel](#), Lieutenant Colonel (R), German Cyber Reserve, AK Cyber Exercises – *Some Lessons Learned from (re-)inventing energy resilience in times of hybrid threat scenarios*



Constanta Maritime University



+40 241664740



info@cmu-edu.eu



www.cmu-edu.eu



BSCySEC - 21

5th Edition

With increased digitalization energy, systems face an increasing range of threats requiring an attentive evaluation of the cyber security risk allowing taking proper countermeasures. The protection and response modalities applied until now have had only a limited efficiency being necessary new approaches with a higher degree of adaptability that take into account the evolutionary structure of the threats on the energy field. Energy systems become more dependent of digital technologies which is facing higher risks and vulnerabilities exposed to an increasing range of cyber threats. Most power grids were designed at a time when there were no cyber-attacks and as a result the protections installed later do not correctly and completely address the problem of cyber security. As direct consequence not all systems assets can be protected accordingly. There is an inherent risk of escalation and proliferation of these threats and their transformation into soft bridges that affect energy security as a whole.

Slot 4 (11:00-11:20)

Assoc. Prof. PhD [Niculae Iancu](#), Chair, I2DS2 Think Tank; Mentor, InnovX; Senior Fellow, BMCyCoE - ***Energy Security – threat, vulnerability, risk ... and opportunity for National Security. Romania’s Case.***

Slot 5 (11:20-11:40)

[Vasile Simileanu](#), Founder director and senior editor at Geopolitics Magazine - ***Virtual space: geopolitical dimension***

Slot 6 (11:40-12:00)

Prof. PhD Habil. [Razvan Tamas](#), Head of the Department of Electronics and Telecommunications, Constanta Maritime University – ***Potential case studies for cybersecurity issues in sensor network communications***

Slot 7 (12:00-12:20)

[Ionut Scinteianu](#), [Eusebiu Rotaru](#), [Sorin Marinescu](#), IT&C Director of Electricity Distribution Romania – ***Energy Cyber Security Challenges***

Slot 8 (12:20-12:40)

[Bruno Marculescu](#), Senior architect OT design defense cyber-security, GMB Computers – ***Energy Security Network Architectures***

Slot 9 (12:40-13:00)

[Alexandru Georgescu](#), PhD, Department of Cyber Security and Critical Infrastructure, ICI Bucharest and European Center for Excellence for Blockchain, ***Critical Energy Infrastructure Protection – trends and developments***

Slot 10 (13:00-13:20)

[Ion A Iftimie](#), PhD, Member, IEEE Fellow, Cyber Security Forum Initiative, Washington, DC. – ***Cyber Threats to Critical Energy Infrastructure - Challenges to Transatlantic Cyber Security Cooperation***

Slot 11 (13:20-13:40)

Assoc. Prof. PhD [Gabriel Raicu](#), Vice-Rector of Constanta Maritime University, BMCyCoE – ***Cybersecurity challenges in energy sources transition***