

SATW Fachveranstaltung

SICHERHEIT VON KRITISCHEN INFRASTRUKTUREN

Nordhof-Auditorien, E1.2
Donnerstag, 21. April 2016, 18 – 20.30 Uhr

Informationen und Anmeldung: www.satw.ch/veranstaltungen

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SATW Fachveranstaltung: Sicherheit von kritischen Infrastrukturen



www.ciprnet.eu

European Newsletter on CI(I)P:

www.ciprnet.eu/ecn.html

Free download, free registration

- Prof. Dr. Bernhard Hämmerli, Tagungsmoderator:
Kritische Infrastrukturen und Cyber-Sicherheit

SATW Fachveranstaltung: Sicherheit von kritischen Infrastrukturen

Motivation für die heutige Fachveranstaltung

- Was sind kritische Infrastrukturen?
- Was macht uns Sorgen bei kritischen Infrastrukturen?
- Was ist der Einfluss von feingranularer Vernetzung bis hin zu IoT?

Position Schweiz bezüglich Cyber und Kritischen Infrastrukturen: Was ist zu tun?

- **Budget Cyber Forschung USA:** 2016 13 Mia, \$ in 2017 19 Mia \$
- **Cyber-Armee USA operatives Budget:** 6.6. Mia \$ in 2016
- **Schutz kritischer Infrastrukturen:** MELANI, BABS, WL, EDA, Armee ... Wirtschaft ...

Analyse 😊 Bewusstsein 😊 Geldmittel 😞 Schutz 😞 Wiederherstellung 😞

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 www.swissinformatics.org
schweizer informatik gesellschaft
société suisse d'informatique
società svizzera per l'informatica
swiss informatics society

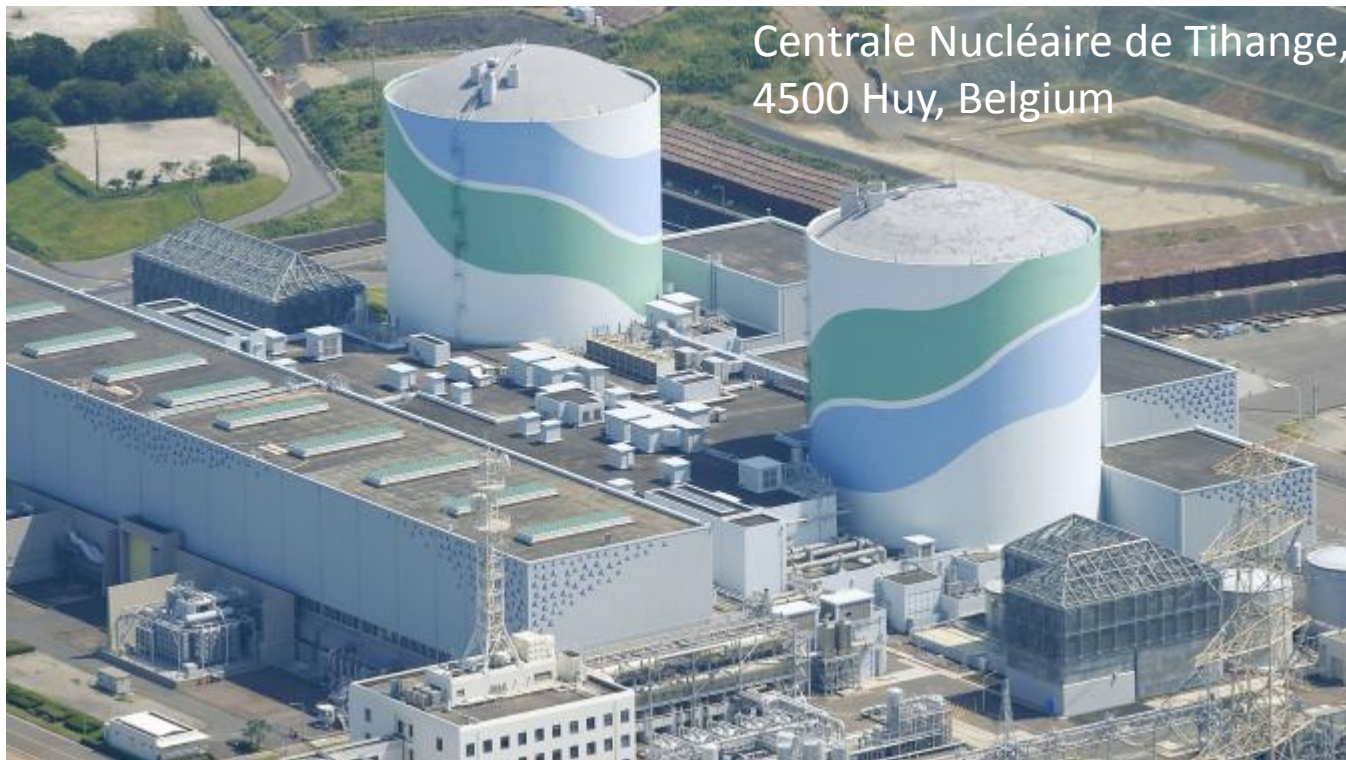




22. März 2016, ca. 11h

“Europa wird leiden solange nicht verstanden wird dass eine Krieg zwischen Kulturen sich abspielt”
ehemaliger Geheimdienst Chef Israel in ARD anfangs April

Wir müssen uns auf einen Auseinandersetzung (Hard Core) innerhalb der Länder zwischen Kulturen vorbereiten:
Genf Cointrin / Tihange (etwa 7 km von E42 auf dem Weg von Charleroi nach Achen ...)



Situation Update No. 1 On 2016-03-27 at 03:05:42 [UTC] **Event:** Nuclear Event **Location:** Tihange Nuclear Power Station Province of Liege Belgium

Number of Deaths: 0 person(s) **Number of Injured:** 0 person(s) **Number of Evacuated:** 0 person(s) **Number of Infected:** 0 person(s)

Situation:

Belgian security services are fearful that ISIS operatives may have been looking to target a nuclear plant as it emerged **two workers from a plant in Doel fled to Syria to join ISIS**. One of the men, reportedly known as **Ilyass Boughalab, is believed to have been killed** in Syria, while the second served a short prison sentence in Belgium for terror-related offences in 2014. **With an extensive understanding of nuclear facilities**, the convict's short jail sentence has raised further questioned of the Belgian security services as well **as fears he may have passed on important knowledge about the site's to the terrorist group**. The shocking revelations comes after the police claimed that the death of a security guard at a nuclear facility is being treated as a criminal act rather than a terror act. Didier Prospero was shot several times in the bathroom of his home in the Charleroi region of Belgium. The unidentified killers shot Prospero, who worked for G4S security at a Belgian nuclear research centre. It had been feared the murder may be part of an **ISIS plot to attack the facility and release radioactive waste into the atmosphere**. Or, the terrorists could have been planning to steal radioactive material to create a so-called dirty bomb. Also, it is possible **the terrorists wanted to sabotage a critical piece of machinery and cause the plant to meltdown**, leading to a critical release of radioactive material. Sebastien Berg, spokesman for the federal agency responsible for Belgium's nuclear industry said they were fearful of a bomb exploding inside a plant or terrorists conducting a 9/11-style attack using a hijacked aircraft. **Nuclear power plants are known to be targets for the terror network** behind the Brussels bombings and the Paris attacks in November. According to the New York Times, several employees working in the Belgian nuclear industry have had their security clearances revoked over potential ISIS plots. Following last November's terror attack in Paris, Belgian police recovered surveillance footage of a senior nuclear official in the home of ISIS ringleader Mohamed Bakkali, who was arrested and is currently facing terrorism charges. In a nation on high alert following this week's attacks, the report stokes fears about the possibility militants are seeking to get hold of nuclear material or planning to attack a nuclear site. Such is the level of fear within the Belgian nuclear power industry, **all non-essential staff at the Doel and Tihange power plants have been sent home**. A spokeswoman said: 'Only those who are really needed are staying, the other people were sent home.' She said that for the **foreseeable future Belgium's nuclear plants will continue operating with staffing levels similar to weekend service to ensure that no unauthorised personnel** could gain access to the plants. 'Some 1,000 people work on sites like these. Their backgrounds are all checked thoroughly, but **better safe than sorry**.' On Thursday, Dernière Heure newspaper had reported the suicide bombers who blew themselves up on Tuesday originally considered targeting a nuclear site, but a series of arrests of suspect militants forced them to speed up their plans and instead switch focus to the Belgian capital. However, Charleroi prosecutors has reportedly played down reports of a connection between the murder and a planned terror attack, according to the Belga news agency. Belga also said that the prosecutor had also denied media reports that the guard's access badge had gone missing. There was no immediate independent confirmation from the prosecutor's office in Charleroi, about an hour's drive south of Brussels. Late last year, investigators found a video tracking the movements of a man linked to the country's nuclear industry during a search of a flat as part of investigations into the Islamist militant attack on Paris on November 13 that killed 130 people. The video, lasting several hours, showed footage of the entrance to a home in northern Belgium and the arrival and departure of the director of Belgium's nuclear research programme. Interior minister Jan Jambon previously told Belgium's Parliament there was not a threat to the country's nuclear facilities last month. At the time, the interior minister he said that **while there was a threat 'to the person in question,'** there was not one to the country's nuclear facilities. He added: 'To date, we have no indication that there is a specific threat to the Belgian nuclear sites. The nuclear industry is one of the best protected areas.' However, the European Union's counter-terrorism chief warned today that Belgium's network of nuclear power plants and other major infrastructure face the threat of a cyber-attack over the next five years. **'I would not be surprised if there was an attempt in the next five years to use the Internet to commit an attack,'** Gilles de Kerchove told daily La Libre Belgique. **'It would take the form of entering the SCADA (Supervisory Control and Data Acquisition), which is the nerve centre of a nuclear power plant,** a dam, air traffic control centre or railroad switching station,' he added. It comes as the head of the UN atomic watchdog also warned that terrorists have the **'means, knowledge and information'** to create a nuclear bomb. The warnings of the International Atomic Energy Agency (IAEA) chief Yukiya Amano come just days before world leaders meet for an important summit against **nuclear terrorism**.

Aufbau der Tagung:

Aktuelle Forschung zu kritischen Infrastrukturen

Internationale CIP Forschung: Überblick mit Focus auf Grenzüberschreitungen

Dr.-Ing. Erich Rome, Fraunhofer & EU FP7 Projekt CIPRNet (Koordinator)

SKI- und Cyber-Risiko-Strategie: Risikobetrachtungen und Massnahmen zur Steigerung der Resilienz

Überblick Schweiz bezüglich Gefährdungen und Risiken in CIP

Dr. Stefan Brem, Chef Risikogrundlagen und Forschungskoordination, Bundesamt für Bevölkerungsschutz

Wie können wir die Kommunikation von kritischen Infrastrukturen sichern?

Könnte die Gefahr aus dem Internet mit einem sicheren Protokoll reduziert werden?

Prof. Dr. Adrian Perrig, ETH Zürich

Sicherheit von kritischen Infrastrukturen in der zunehmend digital vernetzten Welt

Können Verteidigungsnetzwerke das Internet-Netzwerke von Angriffsnetzwerken schützen

Andy Mühlheim, Experte SATW

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- Paneldiskussion mit den Referenten
unter der Leitung von Bernhard Hämmerli, SATW