Program New Energetics Workshop, May 17, 2016

Location: FOI Kista
Room: Jupiter

09.00 Registration and Coffee

09.20 Welcome and Introduction. Patrick Goede, FOI, and Helen Stenmark, Eurenco Bofors AB

09.30 **1.** An overview of the EDA project EMTEEC. Patrick Goede, FOI, Sweden

10.00 **2.** Recent Developments on Polynitro Containing Energetic Materials Based on Carbon and Silicon. Burkhard Krumm, LMU Munich, Germany

10.20 **3.** 5-Amino-3,4-Dinitropyrazole: Thermal Stability and Combustion. Nikita Muravyev, Semenov Institute of Chemical physics, Russian academy of sciences. Russia

10.40 **Coffee**

11.10 **4.** Influence of Polyacrylamide and Stearic Acid on Crystal Growth of RDX and Bicyclo-HMX. Kamil Dudek, Explosia, Check Republic

11.30 **5.** EILs – suitable substances for future energetic applications? Uwe Schaller, Fraunhofer ICT, Germany

11.50 **6.** Theoritical studies on the thermodynamic and detonation properties of RDX with Al and B. Nilgün ŞEN, Institute of Forensic Science, Turkey

12.10 **Lunch**

13.30 **7.** New NC Stabilizers Evaluated in Rocket Propellants. Erik Thunestål, Eurenco Bofors, Sweden

13.50 **8.** Approaches Toward the Replacement of Lead Containing Primary Explosives – A Challenge. Norbert Szimhardt, LMU Munich, Germany

14.10 **9.** Lead-Free Replacements for Initiation and Ignition Systems. Javid Hamid, QinetiQ, UK

14.30 **10.** REACH implementation at Eurenco Bofors. Veronica Andersson, Eurenco Bofors, Sweden

15.00 **Refreshments**

15.20 **Plenary discussion**

16.00 **End**

18.00 **Dinner**

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09.00 **11.** Production and characterization of Al-Cu and Al-Ni nanoparticles. Alexander Vorozhtsov, Tomsk state University, Russia

09.20 **12.** Mechanical milling of new energetic compounds: possibilities and perspectives. Stefano Dossi, Politecnico di Milano Milan, Italy

09.40 **13.** Continuous Synthesis. Martin Skarstind, FOI, Sweden

10.10 **14.** Particle Properties and Crystal Structure of Ammonium Dinitramide (ADN) Prills. Thomas Heintz, Fraunhofer-ICT, Germany

10.30 **Coffee**

10.50 **15.** Influence of Energetic Binders on ADN/Nitramin/GAP-Solid Rocket Propellants with Special Focus to the Burning Behavior. Volker Weiser, Fraunhofer-ICT, Germany

11.10 **16.** ADN Propellant Research at Roxel (UK). Sue Evans, Roxelgroup, UK

11.30 **17.** ADN Propellant Development at FOI. Niklas Wingborg, FOI, Sweden

11.50 **18.** A new generation of minimum smoke propellants – From development to production. Tor Erik Kristensen, FFI and Thomas Deschner, Nammo, Norway

12.20 **Lunch**

13.30 **19.** Development of Ionic Liquid Propellants Based on High Energetic Materials. Hiroki Matsunaga. Department of Chemical Engineering, Fukuoka University, Japan

13.50 **20.** European Green Propellant LMP-103S Space Qualification. Mathias Persson, ECAPS

14.10 **21.** Ignition methods for ADN-based liquid monopropellants – Recent Results of the EU H2020 Project Rheform. Michele Negri, DLR, Lampoldshausen, Germany

14.30 **Coffee**

15.00 **22.** Rocket propulsion programs at Nammo using hydrogen peroxide as propellant. Jan-Erik Rønningen, Nammo Raufoss, Norway

15.20 **23.** Performance Evaluation of High Performance Green Monopropellant with Hydrogen Peroxide and Ethanol. Baek Seungkwan, Korea Advanced Institute of Science & Technology (KAIST), South Korea

15.40 **24.** ADN synthesis improvements. Jonas Johansson, FOI, Sweden

16.00 **End**

Program. Visit to Eurenco, Karlskoga, May 19, 2016

07.30 Departure by Bus from Scandic Victoria Tower

18.00 Arrival by Bus to Scandic Victoria Tower

18.45 Arrival by Bus to Arlanda Airport