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| NATOLogo-hor-SMALL-Docs-ONLY | **SYMPOSIUM PROGRAM (DAY 1)****Information Systems and Technology (IST) Panel****IST-148/RSY-032**CYBER DEFENCE SITUATION AWARENESS**3 – 4 October 2016, Sofia, Bulgaria** | CMP_NATO_Logo_STO_v2_05_07_12 |

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| MONDAY, 3 OCTOBER 2016 |

0815 – 0900 **REGISTRATION**

0900 – 0930 **OPENING CEREMONY**

Host Welcome Speech:

Introduction: Dr. John McLEAN, IST Panel Chairman, USA

Introduction to Symposium: Mr. Douglas WIEMER, Symposium Chairman, CAN

0930 – 1010 **KEYNOTE SPEECH 1:** NATO Cyber Defence Post - Warsaw

by Mr. Christian LIFLÄNDER, Deputy Head (Policy), Cyber Defence Section, Emerging Security Challenges Divison, NATO HQ.

1010 – 1035 **BREAK**

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| **SESSION 1 – CDSA Architectures and Approaches** |

1035 – 1110 1. Understanding Cyberspace through Cyber Situational Awareness

by Benjamin R. PARISH, Bob MADAHAR, DSTL, GBR

1110 – 1145 2. Leveraging Software Defined Networking (SDN) for Cyber Situational Awareness in Coalition

Tactical Networks

by Vinod MISHRA, US Army Research Lab., Dinesh VERMA, IBM TJ Watson Research

Center, USA, Chris WILLIAMS, UK Ministry of Defence

1145 – 1220 3. Examining Correlation Techniques to Improve Strategic Decision-Making through Advanced

Cyber Situational Awareness

by Preston D. FRAZIER, Risa LIN, Dennis McCALLAM, Northrop Grumman Mission Systems Corporation, USA

1220 – 1350 **LUNCH**

1350 – 1430 **KEYNOTE SPEECH 2:** Scenario Driven Capability Development

by Dr. Reginald SAWILLA, Senior Scientist, NCIA, NLD

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| **SESSION 2 – CDSA for Mission Assurance** |

1430 – 1505 4. Probabilistic Mission Defense and Assurance

by Alexander MOTZEK, University of Lübeck, DEU

1505 – 1540 5. Mission Dependency Modeling for Cyber Situational Awareness

by William HEINBOCKEL, Steven NOEL, James CURBO, The MITRE Corporation, USA

1540 – 1605 **BREAK**

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| **SESSION 3 – Security Metrics for CDSA** |

1605 – 1640 6. Evolving Continuous Monitoring to Cyber Situational Awareness

by George ROMAS, Hewlett Packard Enterprise, USA

1640 – 1715 7. Cyberspace Security Threats Evaluation System of the Republic of Poland

by Joanna SLIWA, Przemyslaw BEREZINSKI, Rafal PIOTROWSK, Military Communication Institute, POL

1715 – 1750 8. Metrics for Cyber Robustness

by Fabrizio BAIARDI, F. TONELLI, University of Pisa, A. BERTOLINI, M. MONTECUCCO, Haruspex Co., ITA

1900 **Host Nation Reception**

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| **TUESDAY, 4 OCTOBER 2016** |

0900 – 0940 **KEYNOTE SPEECH 3:** Role of Non-Governmental and Professional Organizations in Building

Cyber Security Awareness in the Society

by Mr. Konstantin ZOGRAFOV, President of AFCEA Sofia Chapter, BGR

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| **SESSION 4 – Visual Analytics for CDSA** |

0940 – 1015 9. Service Measurement Map for Large-scale Cyber Defense Exercises

by Mauno PIHELGAS, Francisco J.R. MELON, NATO CCD COE, EST, Jaan PRIISALU, Tallinn University of Technology, EST

1015 – 1040 **BREAK**

1040 – 1115 10. Achieving Cyber Situation Awareness through a Multi-Aspect 3D Operational Picture

by Wim MEES, Royal Military Academy, BEL, Salvador LLOPIS, European Defence Agency (EDA)

1115 – 1150 11. Cyber Common Operational Picture: A Tool for Cyber Hybrid Situational Awareness

Improvement

by Manuel ESTEVE, Israel PÉREZ, Carlos PALAU, Federico CARVAJAL, Javier HINGANT, Universitat Politècnica de Vàlencia, Miguel A. FRESNEDA, Juan P. SIERRA, Joint Cyber Defense Command, SPE

1150 – 1225 12 Big Button: A Situational Awareness and Cyber Defense Solution

by Dawn STARLING, FORCEPOINT, USA

1225 – 1400 **LUNCH**

1400 – 1440 **KEYNOTE SPEECH 4:** National Cyber Picture and Collaborative Resiliency

by Dr. George SHARKOV, National Cybersecurity Coordinator for Bulgaria and Cyber Defense Adviser, Bulgarian Ministry of Defence, BGR

1440 – 1515 13. Achievements and Outcomes of IST-108 Task Group, Cyber Defence Situational Awareness

by Douglas WIEMER, Chairman IST-108 RTG

1515 – 1630 Round Table Discussion: State-of-the-art assessment, future needs and current gaps

Facilitated by Douglas WIEMER, Chairman IST-108 RTG

1630 - 1700 **CLOSING CEREMONY (Best Paper Award)**