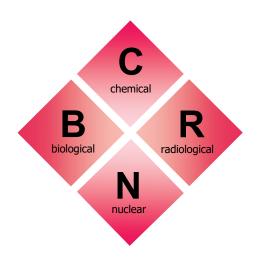




th International Symposium on

Development of CBRN Protection Capabilities 03rd - 05th September 2018, Berlin



Conference Programme

as of 28th August, 2018

Conference Language is ENGLISH

The 2018 Conference is organized by:





Federal Ministry



Federal Office Disaster Assistance



Bundeswehr CBRN-Defen



CBRN Working Group in the Association of the German Army



Outdoor Demonstration & Icebreaker

03rd September 2018 Schloss Diedersdorf 15831 Großbeeren (near Berlin) Bus-Transfer from / to Hotel Maritim

Conference & Exhibition

04th - 05th September 2018 Maritim Hotel proArte Friedrichstraße 151 10117 Berlin

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Development of CBRN Protection Capabilities

03rd - 05th September 2018, Berlin

■Conference Ratio

tection Capabilities will take place in Berlin from 3 to 5 Septem- own protection (ability to help oneself), but also to endure ber 2018.

As in previous years, Germany will once again provide a professional platform for encounters and exchange of the international CBRN protection community. International experts will inform representatives from the fields of politics, administra- The symposium's aim is to inform participants about the imtion, industry, academia, civilian and military organisations portance attached to CBRN protection internationally and to about latest developments in security policy and provide an up- discuss the way ahead. The plenary will debate political and to-date risk assessment with a view to chemical, biological, strategic issues; technical and operational questions are disradiological and nuclear risks and the challenges they represent cussed in expert panels. This year, the Federal Ministry of the for military and civilian systems when it comes to hazard pre- Interior is in charge of the content of this high-level internavention.

The list of international participants clearly indicates that pro- tance, the Bundeswehr CBRN Defence Command and the Assotecting against the effects and impact of CBRN dangers is a top ciation of the German Army. The event is organised by the Repriority around the globe. As a result, CBRN continues to be in search Association of the German Association of Defence Techthe focus when it comes to improving preventive security nology. measures.

The repeated use of chemical weapons in conflict areas, the Ebola epidemic in West Africa, the Fukushima disaster and, last but not least, the international community's growing concern of the threat of nuclear terrorism in the light of the advancing proliferation of weapons of mass destruction are proof that CBRN protection within national and international security architectures remains relevant. In addition to the analysis of latest security developments, a special focus will be on presenting current conceptual foundations to meet the requirements of modern CBRN protection. Representatives from competent ministries and government authorities will explain the guidelines for the further development of CBRN protection.

Specific assessments by industry and academia will complement the picture. The symposium will particularly focus on three relevant areas for development of CBRN protection: National and international cooperation which need to be improved with the ultimate objective to establish a comprehensive network of CBRN protection capabilities. Taking into account recent developments within NATO and the EU, it is necessary to discuss the issue of prevention (averting hazard or damage situations in the first place) as the overriding principle when fulfilling CBRN protection tasks.

At the same time, the efforts to create a resilient system, recognising its vulnerabilities, need to be discussed as well. Resilience is also key to increase survivability in general while preparing for damaging events that could not be averted.

The 4th International Symposium on Development of CBRN Pro- The citizens' preparedness and ability to contribute to their possible damage without giving up the principles of the rule of law must be a central elements of any resilience strategy. This is particularly true in the case of stressful CBRN scenarios with a national dimension.

> tional conference, supported by the Federal Ministry of Defence, the Federal Office of Civil Protection and Disaster Assis-





■ Programme on Monday, 03rd September 2018

13:00	Bus Transfer from Conference Hotel to the Castle of Diedersdorf Busses depart from station "Unter den Linden" 100 meters from the hotel every 20-30 minutes, transfer time around 30 minutes. First bus departs at 13:00, last bus departs at 18:30. Individual transfer is possible as well [Schloss Diedersdorf Kirchplatz 5 15831 Großbeeren].
14:00	Outdoor Demonstration of Civil and Military CBRN Protection Capabilities in the Castle Courtyard Drinks and Snacks served during the day
18:00	Ice Breaker Cocktail Reception
18:15	Welcome Notes General (ret.) Rainer Schuwirth, Chairman of the German Association for Defence Technology
18:30	Walking Dinner Buffet in Diedersdorf Castle Eat, Drink and Talk Outdoor Exhibition
21:15	First Bus returns to Conference Centre
22:15	Last Bus returns to Conference Centre









■ Programme on Tuesday, 04th September 2018

07:00	Conference Counter opens
08:00	Opening of the Exhibition Welcome Coffee served
08:30	Opening of the Conference General (ret.) Rainer Schuwirth, Chairman of the German Association for Defence Technology
	Key Notes
08:40	Key Note by the German Federal Ministry of the Interior, Building and Community Horst Seehofer, Minister of the Interior, Building and Community, Germany
09:00	Key Note by the Acting Presidency of the Council of the European Union Herbert Kickl, Minister of the Interior, Austria
09:20	Introduction to the 4 th Symposium Christoph Unger, President, Federal Office of Civil Protection and Disaster Assistance (BBK), Germany
	CBRN Protection: Security Policy Framework Concepts
09:40	Introduction by the Session Chairwoman Ayleen Bock, German Federal Ministry of the Interior, Building and Community, Division for Civil Protection
09:50	The Essential Role of Multilateral Nonproliferation and Disarmament Regimes in Preventing CBRN Attacks Dr. Oliver Meier, Deputy Head of International Security Division, German Institute for International and Security Affairs (SWP)
10:15	The Future of Non-Proliferation - The Role of Nuclear Weapons in the Global Security Policy Context Dan Smith, Director, Stockholm International Peace Research Institute (SIPRI), Sweden
10:40	Coffee Break Exhibition Poster Sessions
11:20	CBRN Threats and our Preparation Colonel Kideuk Byun, Head of CBR Defense Research Institute, Armed Forces of South Korea
11:45	Resilience - Contribution of Industry on CBRN Protection Equipment Sebastian Meyer-Plath, President Bruker Detection
12:10	The EU CBRN Action Plan Hans Das, Head of Unit Terrorism and Radicalisation, DG Home, European Commission
12:35	Luncheon Exhibition Poster Sessions
National and International Cooperation	
14:00	Introduction by the Session Chairman *Brigadier General Wolfgang Gäbelein*, German Federal Ministry of Defence, Chief of Division Forces Policy II
14:10	Science and Technology: the Value of Cooperative Networks Dr. Marc Cadisch, Director, Spiez Laboratory, Switzerland



■ Programme on Tuesday, 04th September 2018

14:35	The Notion of Networked Security in the Cooperation between National and International Organizations Wolfgang Rudischhauser, Vice-President, German Federal Acadamy for Security Policy
15:00	Coffee Break Exhibition Poster Sessions
15:30	Framework Nations Concept (FNC) Cluster CBRN Protection - a Lighthouse Project of an European Cooperation Initiative Colonel (DEU Army) Henry Neumann, Commander, Bundeswehr CBRN Defence Command Colonel (CZE Army) Jiri Gajdos, Chief FNC Cluster Support Cell CBRN Protection, Bundeswehr CBRN Defence Command
15:55	Jordan Civil Defence - Experience in Dealing with CBRN Captain Ahmad Mansour Suleiman Al Zu'bi, Hazmat Team Training Officer, Jordan Civil Defense, Ministry of Interior, Jordan
16:20	Operational CBRN Decon/Detox of Platforms and "On-Site" Sensitive Equipment Decon Capability Stefano Miorotti, Cristanini, Italy
16:45	Short Coffee Break Find your Panel Session
17:00	Conference Continues with Panel Sessions A1 - A7
	Panel A1: Social Resilience
	Panel A2: Prevention and Countermeasures
	Panel A3: Risk Analysis, Assessment and Crisis Communication
	Panel A4: Stand-Off-Detection
	Panel A5: Protection (Suits)
	Panel A6: Decontamination and Disinfection I
	Panel A7: Innovations by Industries
19:00	Beer Call in the Exhibition Area
19:30	Walking Dinner Buffet in the Exhibition Area
22:00	Last Order

■Panel Session A1: Social Resillience

End of first day

22:15

17:00	Introduction by the Panel Chairman: Sebastian Meyer-Plath, President Bruker Detection
17:10	Network Enabled CBRNE Resilience Lothar Pelz, Bruker Detection
17:30	The Multi-Laboratory International Collaboration Environment: Connecting Stakeholders Globally for Knowledge and Data Sharing
	Dr. Krista M Versteeg, Research and Development Partnerships- NBAF, Science & Technology Directorate, Department of Homeland Security, USA
17:50	Protection of Population in Case of Spreading a Toxic Substance in Public Buildings LTC Dr. Ladislava Navratilova, Population Protection Institute, Czech Republic
18:10	Psychology after CBRN Attacks Özcan Erdogan, Bezmialem Vakif University Department of Disaster Management, Istanbul, Turkey
18:30	International and Supranational Collaboration Countermeasures Zoran Sandev, Specialized Officer, Bioterrorism Prevention Unit, INTERPOL
18:50	Discussion



■ Panel Session A2: Prevention and Countermeasures

17:00	Introduction by the Chairman: <i>Dr. Jan Kämpen,</i> Federal Office of Civil Protection and Disaster Assistance
17:10	Investing in Public Health Gives - Especially in Low Income Countries - Extremely Impressive Returns Cdr Dr. Stef Stienstra, Royal Dutch Navy reserve
17:30	Determination of Medical Countermeasures Requirements for CBRN Terrorism in Canada Milan Patel , Regulatory Policy and Risk Management Specialist, Centre for Emergency Preparedness and Response, Canada
17:50	Electromagnetic Protection of Critical Infrastructures Dr. Martin Willenbockel, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
18:10	Equipment and Capabilities of Fire and Rescue Service of the Czech Republic to Respond to Radiological Event Dr. Michal Setnička, Population Protection Institute, Czech Republic
18:30	Success and Failure Factors in EU Transboundary Crisis Management Claudia Berchtold, Fraunhofer INT
18:50	Discussion

■ Panel Session A3: Risk Analysis, Assessment and Crisis Communication

1	7:00	Introduction by the Chairman: Dr. Roman Trebbe , Federal Office of Civil Protection and Disaster Assistance
1	7:10	Radiological Threat and Risk Assessment Prof. Dr. Natividad Carpintero-Santamaría, Instituto de Fusión Nuclear – Universidad Politécnica de Madrid, Spain
1	7:30	Risk and Crisis Communication, Information and Knowledge Management, Risk Analysis/Risk Assessment, Detection, Identification and Monitoring and Innovation Research and Development <i>Mark Woolley</i> , Arktis Radiation Detection Ltd
1	7:50	CBRE Collective Protection in Buildings Daniel Jordi, Ministry of Defence, Switzerland
18	8:10	The German CBRN Command and Control Unit Stefan Wilbert, Federal Office of Civil Protection and Disaster Assistance
18	8:30	Command & Control Software for CBRN Reconnaissance Vehicles in Civil Protection Dipl. Informatiker Helge Koch-Eschweiler, tms
18	8:50	Discussion

■ Panel Session A4: Stand-Off-Detection

17:00	Introduction by the Chairman: <i>Dr. Roland Harig</i> , Bruker Optic
17:10	Future Remote Controlled and Autonomous Chemical Detection Systems
	Dr. Ralf Helmut Hetzer, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
17:30	The Use of IR Standoff Detectors for the Protection of Emergency Personnel against a Threat of Hazardous Material Clouds
	Frank Wilsenack, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
17:50	Evaluation of the Ultrafast Remote Sensing Hyperspectral Imager HI90 for Real-time Identification of Chemical Warfare Agents
	Rene Braun, Bruker Optik GmbH
18:10	Prospects for Biological and Chemical Substance Classification Using a Standoff Laser Induced Fluorescence Detection System
	<i>Dr. Florian Gebert,</i> German Aerospace Centre (DLR)
18:30	Innovative Improvements to Handheld CBRNE Threat Identification
	<i>Travis Thompson,</i> Metrohm Raman
18:50	Discussion



■ Panel Session A5: Protection (Suits)

17:00	Introduction by the Panel Chairman: <i>Friedrich Hesse</i> , Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
17:10	System Testing of CBRN-Suits Using Physical Aerosol Friedrich Hesse, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
17:30	Mobility and Flexibility Offensive for CBRN Situations - Blower-Ventilated Full Protective Suit Dr. Gabriele Bartel-Lingg, BARIT GmbH / Vitmo GmbH
17:50	A Future Concept for Gastight NBC Protective Clothing Karola Hagner, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
18:10	Options for Broad Chemical and Biological Protective Personal Protective Equipment Offering Improved Heat Stress and Mission Effectiveness Michael Merrick, W.L. Gore & Associates
18:30	Discussion

■ Panel Session A6: Decontamination and Disinfection I

17:00	Introduction by the Panel Chairwoman: <i>Nahid Derakshani,</i> BBK
17:10	From Lab to Full Size Systems: Drinking Water from VX Contaminated Raw Water DrIng. Jeldrik Moritz, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
17:30	Next Generation Detection Sensitivity and Decontamination Efficiency with Enzymatic Technology Jason Robosky, FLIR Systems, Inc.
17:50	Contamination Control for CBRN-Recce-Equipment – Field Testing Possibilities for Triage prior to Decontamination DiplIng. Gerald Bauer, CBRN Defence Command & CBRN Defence School, Austrian Armed Forces
18:10	The Challenge of Ensuring Sufficient Water Supply based on CBRN-Contaminated Raw Waters Franz Weber, Kärcher Futuretech GmbH
18:30	Discussion

■Panel Session A7: Innovations by Industries

17.00

17:00	Introduction by the Chairman: <i>Colonel (Res.) Wolfgang Widders</i>
17:10	Civil-Military Co-operation in CBRN and Civil Protection – Possibilities of Industrial Support
	Rico Becker, Rheinmetall Electronics GmbH
	Dr. Bernhard Christoph Halstrup, Rheinmetall MAN Military Vehicles GmbH
17:30	Rapid Deployable CBRN Solutions for Today's Challenges
	Dr. Markus Hellmuth, Kärcher Futuretech GmbH
17:50	Urban Terrain Modelling in NEWS (NBC Evaluation and Warning System)
	Yücel Ahi and Dr. Jens Fiedler, Technisch-Mathematische Studiengesellschaft mbH
18:10	A Comprehensive Bio Identification Strategy
	Dr. Marcus Erbeldinger, FLIR and Dr. Christopher Poehlmann, Bruker
18:30	CBRN Management in D-LBO (Digital-Land Based Operations)
	Andreas Schlier, ESG Group
18:50	Discussion



■ Programme on Wednesday, 05th September 2018

07:00	Conference Counter opens
08:00	Opening of the Exhibition Welcome Coffee served Find your Panel Session
08:30	Conference Continues with Panel Sessions B1 - B7 Panel B1: Information and Knowledge Management Panel B2: Innovation, Research and Development Panel B3: Education, Training & Simulation Panel B4: Point Detection Panel B5: Protection (Filtration) Panel B6: Decontamination and Disinfection II Panel B7: Bio-Defence and Medical Countermeasures
10:30	Coffee Break Exhibition Poster Sessions
	Resilience of the Society
11:00	Introduction by the Session Chairwoman Friederike Dahns, German Federal Ministry of the Interior, Building and Community, Head of Division for Population Development and Demographic Studies and Chair of NATO Civil Protection Group
11:10	Resiliency – Basic Concept for Civil Protection and Disaster-Risk-Management (13 Questions and Answers from a German Perspective) Giulio Gullotta, Head of Directorate Science and Technology, Federal Office of Civil Protection and Disaster Assistance
11:35	Resilience - a Scientific Perspective Prof. Dr. Shinichi Egawa, Division of International Cooperation for Disaster Medicine, International Research Institute of Disaster Science (IRIDeS), Tohoku University, Japan
12:00	Discussion Round Resilience of Society in the Context with National CBRN Threats and Hazards
Chairman:	Dr. Marcus Pindur, Deutschlandradio
Speaker:	Giulio Gullotta, Federal Office of Civil Protection and Disaster Assistance Prof. Dr. Shinichi Egawa, Tohoku University, Japan Prof. Dr. Francesco D'Errico, Yale University, USA Marc Finaud, Arms Proliferation Cluster Leader, Geneva Centre for Security Policy
13:00	Luncheon Exhibition Poster Sessions
	Prevention: Paradigm Change in CBRN Protection
14:30	Introduction by the Session Chairman <i>Colonel (GS) Hans-Christian Hettfleisch,</i> German Federal Ministry of Defence, Chief of Branch Forces Policy II 2
14:40	The Correlation between Prevention, Reaction and Rehabilitation in Civil Protection Jan-Olof Lind, Director General, Swedish Defence Research Agency
15:05	Disablement of Weapons of Mass Destruction: How NATO Takes Into Account the Paradigm Change Colonel (U.S. Air Force) Anthony Stroup, Chief Nuclear & CBRN Defence Policy Branch, NATO International Military Staff, Policy & Capabilities Division Lt. Colonel Bernd Allert, Chief of Concepts and Doctrines Section, Joint CBRN Defence Centre of Excellence
15:30	Population Growth, Urbanization, Climate Change – Global Trends and their Implications on Security Research Prof. Dr. Dr. Michael Lauster, Director, Fraunhofer Institute for Technological Trend Analysis INT
15:55	Conclusions Farewell
16:10	End of the Conference



■ Panel Session B1: Information and Knowledge Management

08:30	Introduction by the Panel Chairman: LtCol Hartmut Appetz
08:40	Do We Have any Talent of Search in Google Trends Query Data Prof. Dr. Volkan Ülker , Disaster Medicine of Health Sciences of Bezmi Alem Foundation University Istanbul, Turkey
09:00	CBRN Threats and Chemical Terror on the Move from the Military Battle Field Into our Cities and Public Venues Erik Elllinghaus, CEO, Bruhn Newtech
09:20	The Role of Expert Support in Nuclear Security Krister Liljegren, Environics Oy
09:40	True 5D Oliver Zimmermann, LUCIAD Hexagon Geospatial
10:00	Discussion

Panel Session B2: Innovation, Research and Development

08:30	Introduction by the Chairman: Stefan Wilbert, Federal Office of Civil Protection and Disaster Assistance
08:40	Detection of Trace Substances using Low Energy Electron Ionization: Open Sensor Design, Raw Data Fusion in Neuronal Networks and Environmental Correlations
	Prof. DrIng. Theodor Doll, DBT GmbH
09:00	Evaluation of Measurement Devices for Radioactive and Nuclear Material Dr. Monika Risse, Fraunhofer INT
09:20	EC Project ENCIRCLE - EuropeaN Cbrn Innovation for the maRket CLustEr. LtCol Bartlomiej Jankiewicz, Military University of Technology, Institute of Optoelectronics, Warszawa, Poland
09:40	Contamination Detection and Self-decontamination Capability as a New Standard for CBRN Protective Garments?
	Dr. Jakub Vaněk, National Institute for NBC Protection, Czech Republic
10:00	The Case of Autonomous CBRN Recce Systems – Will Crews Become Obsolete?
	Dr. Bernhard Christoph Halstrup, Rheinmetall MAN Military Vehicles GmbH
10:20	Discussion

■ Panel Session B3: Education, Training & Simulation

08:30	Introduction by the Chairman: <i>Dr. Martin Weber</i> , Federal Office of Civil Protection and Disaster Assistance
08:40	National Training and Exercises Carried out by the German Federal Office for Radiation Protection: Recent
	Experience and Lessons Learned
	Dr. Emily Kröger, German Federal Office for Radiation Protection
09:00	CBRN Medical Training in the UK
	Robbie Beech, WO2 (OR8), Lead Nurse for CBRN Medicine, UK
09:20	Compact Facility for CBRN Testing, Education and Training
	Lukáš Králík, National Institute for NBC Protection, Laboratory of Chemical Monitoring and Protection, Czech
	Republic
09:40	Educational Project for First Responders from East African Community
	LTC Dr. Ladislava Navratilova, Population Protection Institute, Czech Republic
10:00	Biological Facility Exploitation, Assessment and Reconnaissance Course (BioFEAR Course)
	Martin Weiler, CBRN Defence Command & CBRN Defence School Austrian Armed Forces
10:20	Discussion



■Panel Session B4: Point Detection

08:30	Introduction by the Panel Chairman: <i>Major André Althoff</i>
08:40	Key Capabilities and Major Trends in Aerial-Based Chemical Weapons Detection John Hart, Stockholm International Peace Research Institute (SIPRI)
09:00	New Concept in Detection of Chemical Warfare Agents – GDA-P Dr. Bert Ungethüm, AIRSENSE Analytics
09:20	Development of a Rapid, Sensitive, Generic and Easy to Use Organophosphate Skin Disclosure Kit Colonel Prof. Dr. Franz Worek, Bundeswehr Institute of Pharmacology and Toxicology, Munich, Germany
09:40	Adaptable Detection Technology for Tomorrow's Emerging Threats Rugged, Handheld Mass Spectrometry for Priority Threat Detection Trey Sieger, 908 Devices
10:00	Detection of Radiologic Bombs for Field-Camp-Protection Prof. Dr. Wolfgang Koch, Fraunhofer FKIE
10:20	Discussion

■Panel Session B5: Protection (Filtration)

08:30	Introduction by the Chairwoman: <i>Dr. Christine Doffek</i> , Federal Office of Civil Protection and Disaster Assistance
08:40	Multilayered Filtration Systems with Activated Carbon, Metal-organic Frameworks and Hopcalite Thomas Dawert, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
09:00	Physical Protection for air crew members with NBC-tasks Philipp Ostertag, Autoflug
09:20	Protection During and After Recce and Sampling Missions Dr. Baldur Stulgies, Rheinmetall MAN Military Vehicles
09:40	Bone Marrow Selective Shielding as an Approach to Protect First Responders from Deterministic and Stochastic Radiation Effects Dr. Gideon Waterman, STEMRAD
10:00	Discussion

■ Panel Session B6: Decontamination and Disinfection II

08:30	Introduction by the Panel Chairman: LtCol Johann Georg Kappelmeier
08:40	FLED2 - The Forward Light Element for Decontamination of Patients and Personnel Colonel PD Dr. Roman Wölfel, Bundeswehr Medical Academy
09:00	Cold Atmospheric Plasma for Sensitive Equipment Decontamination Dr. Kathrin Kluge, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
09:20	DEC'POL® - Decontamination and Neutralization Performance Overview on Real Agents Ludovic Ouvry, President, OUVRY SAS
09:40	Casualty Decontamination in Individual and Mass-Casualty Scenarios—Procedures, Decon Agents and Tactics <i>Thilo Schuppler</i> , OWR
10:00	New B-Decontamination Process: Automatized Aerosolization of a Novel Decont Agent Helena Horn, Helmut-Schmidt Universität/Universität der Bundeswehr Hamburg
10:20	Discussion



■ Panel Session B7: Bio-Defence and Medical Countermeasures

O	8:30	Introduction by the Panel Chairman: Dr. Pasquale Gaudio , Department of Industrial Engineering, University of Rome Tor Vergata
O	8:40	Rapid tests for simulants for biological threat agents - new horizons for training Dr. Sibylle Pagel-Wieder, Director Operations & Sales, miprolab
0	9:00	Botulism: Clinical Update Dr. Tim Babinchak, Emergent Biosolutions
0	9:20	Topic tbd <i>Hans Zimmermann</i> , Managing Director, Abacus Analytical Systems
0	9:40	Optical fast detection of Bio Agents through LiF techniques: preliminary results Dr. Jean-François Ciparisse, University of Rome Tor Vergata
10	0:00	Discussion

■ Poster Sessions

Puster se	5510115
Poster #1	Nuclear Protection of Military Equipment Berthold Römer, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
Poster #2	Network Enabled CBRN Concepts James Hall, Consulting Adviser – CBRNe Networked Operations, Bruker CBRNe Detection
Poster #3	NEMP Qualification of Military Equipment Gernot Schmidt, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
Poster #4	A Comprehensive Biodetection Strategy Dr. Christopher Poehlmann, Bio Application Manager, Bruker CBRNe Detection
Poster #5	Metagenomics Using Nanopore Technology Jeanette Klenner, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
Poster #6	The Role of Interoperability between the CBRN Defence Systems Fatoş Beyza Özkan, Havelsan, Turkey
Poster #7	Chemical Warfare Agents and Related Chemicals: Sample Preparation and Mass Spectrometric Analysis Dr. Arne Ficks, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
Poster #8	New Logistic Concepts for CBRN Dr. Markus Hellmuth, Kärcher Futuretech
Poster #9	Design Concept for Smart Radioactive and Nuclear Sensors Dr. Stefan Potthast, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
Poster #10	Internationale Master Courses in Protection Against CBRNe events as an academic example to let military, private and public institutions work together <i>N.N.</i> , University of Rome Tor Vergata
Poster #11	Contributions of the OPCW Designated Laboratory in Munster Germany Dr. Damian Magiera, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)



Development of CBRN Protection Capabilities 03rd - 05th September 2018, Berlin

■Poster Sessions

Poster #12	Rapid on-site analysis with the handheld Raman spectrometer Progeny ResQ and the portable GC / MS system Torion T-9 Dr. Thorsten Heinlein, Application Specialist, Abacus Analytical Systems
Poster #13	Numerical Simulation of Neutron Transport and Activation of Infrastructure Lars Wolf, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
Poster #15	Fire Protection in Armored Vehicles Felix Kümmerlen, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
Poster #16	Reactive Fabrics for CWA Decomposition Myungkyu Park, Agency for Defense Development, Korea
Poster #17	Vacuum Decontamination to Clean C Contaminated Exhibits whilst Preserving DNA and Fingermarks Dr. Matthias Berger, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
Poster #18	Radioactive Waste Management Özcan Erdogan, Bezmialem Vakif University Department of Disaster Management, Istanbul, Turkey
Poster #19	Core Competences of the Biological Laboratory Dr. Thorsten Meißner, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS)
Poster #21	FIRE-IN – Fire & Rescue Innovation Network Dr. rer. nat. Merle Missoweit, Fraunhofer INT
Poster #22	Testing of Physiologic Response of Patients Transported in Portable Isolation Units Kamila Lunerová , National Institute for NBC Protection, Laboratory of Chemical Monitoring and Protection, Czech Republic
Poster #23	Design of a CBE Standoff Detector for Operational Use by Fire Brigades Christoph Kölbl M.Sc., German Aerospace Centre
Poster #24	Improve Operative CBRN Processes with Digital, Interactive & Mobile Mission Support Software Dr. Olaf Grebner, mobilion.eu
Poster #25	Using Metal-organic Frameworks (MOFs) for C-protective Clothing and Respiratory Cartridges (MOFSchutz, BMBF funded) Frank Schnürer, Fraunhofer ICT

■ Hotels | Accomodation

The Conference takes place in the Hotel Maritim proArte in the Centre of Berlin.

Conference Hotel

Rooms are reserved in the Conference Hotel with a 10% discount from the recent internet-rate until July 09, 2018. Please use the booking code "CBRN 18" and book at +49-30-20335. As there is the large international fair "IFA" at the same time in Berlin we strongly recommend to book your room as soon as possible.

Alternative Hotels:

89,- € / night incl. Breakfast Tel.: +49-3379-35350 | info@schlossdiedersdorf.de Castle of Diedersdorf:

(40 Rooms available) (Bus Shuttle Hotel <=> Conference provided)

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Development of CBRN Protection Capabilities

03rd - 05th September 2018, Berlin

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The conference is open for members of the armed forces, police forces, the civil services, the parliaments and ministries, embassies, academia and business. The conference rates are as follows

Category A) Public Services (i.e. Armed Forces, Police, Authorities, THW, Diplomatic, Parliament, Fire Brigades)

Category B) Research (Students, Universities, Research Institutes)

Category C) Industries

The Conference rate includes:

Attendance Ice-Breaker / 2x Lunch / Dinner

Category A) 45.00 € 16,81 € each or 50,42 € Catering-Package

Category B) 220,00€ included Category C) 1190.00 € included

Prices do not include GE taxes (+19% VAT) and costs for travelling and accommodation. Special rates available (Exhibitors, Speakers, "Early-Birds"). If you are not sure about your status, please contact our organisation office in forefront of your registration.

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Option A includes:

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- Security Charge
- Inserts for the Visitor Information
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Option B includes:

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Exhibition Option C

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Option C includes:

- Option B
- Illumination of the Booth
- Front-Banner with your Logo 200 x 50 cm
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 - Printed Stretchframe-System
 - Traverse Construction
- Presentation Technology (TV, Beamer)
- Graphics at the Booth
- Laminate / Parquet / Carpet

Exhibition Option E

Outdoor Exhibition / Live Demonstration on September 03rd, 2018 0,- Euro (prerequisite for industries is a booking of a stand / sponsoring)



Development of CBRN Protection Capabilities

03rd - 05th September 2018, Berlin

■Online-Registration at www.cbrn-symposium.com | Fax to: +49-228-41098-19

I/We take part in the "4th International Symposium on Development of CBRN Protection Capabilities" as mentioned below.

Exhibitors: as long as space available but not later then August 24th, 2018 / Attendees: August 31st, 2018 **Registration Deadlines:**

Attendees may cancel free of charge until August 28th, 2018. Later cancellations will be fully charged. **Cancellations:**

> A substitute attendee can be nominated at any time. The conference rates include access to the main and panel programme, the exhibition areas, the Ice-Breaker-Reception, lunch, dinner and refreshments as outlined below.

until June 1st, 2018: 25% charge / until July 2nd, 2018: 50% charge / later July 2nd, 2018: full charge. **Exhibitor Cancellations:**

The easiest way to register: online at www.cbrn-symposium.com

	Category A		Category B		Category C
	Public Services		Research		Industry Attendance
	i.e. Armed Forces, Police, Authorities, THW, Diplo Parliament, Fire Brigades	omatic,	Students, Universities, Research Instit	utes	Industries
	Conference Fee		Conference Fee	Standard	Conference Fee Standard
	☐ Attendance	45,00 €	Attendance at the conference	220,00€	☐ Attendance at the conference 1.190,00 €
w			 Attendance only on Sept 04th Attendance only on Sept 05th 	150,00 €	Attendance only on Sept 04 th 770,00 € Attendance only on Sept 05 th 710,00 €
Attendees	Discounts		Discounts	140,00 €	☐ Attendance only on Sept 05 th 710,00 € Discounts
ğ	Speaker incl. Catering	-100%	Speaker	-50%	Speaker -50%
e	Embassy incl. Catering	-100%	Exhibitor additional Ticket	-20%	Exhibitor additional Ticket -20%
Ĭ			Exhibitor (no access to Lectures)	-70%	Exhibitor (no access to Lectures) -70%
	Catarina		Exhibitor included Ticket	-100%	Exhibitor included Ticket -100%
	Catering All Caterings	+ 50,42 €	Catering (included in conference fee) All Caterings		Catering (included in conference fee) All Caterings
	☐ Ice-Breaker 03 rd September	+ 16,81 €	Ice-Breaker 03 rd September		Ice-Breaker 03 rd September
	☐ Luncheon 04 th September	+ 16,81 €	Luncheon 04 th September		Luncheon 04 th September
	Dinner 04 th September	+ 16,81 €	☐ Dinner 04 th September		☐ Dinner 04 th September
	Luncheon 05 th September	+ 16,81 €	Luncheon 05 th September		Luncheon 05 th September
Transfers Programme	Programme 04. September: Plenary Programme 05. September: Plenary Programme 05. September: Conference Shuttle Bus 03. September: Castle Died	ogramme (0 ogramme (0 e Hotel => Ca ersdorf => C ersdorf => C	8:30 - 16:10) astle Diedersdorf (13:00 13:30 18:30) Conference Hotel (15:30 16:30 21:15 21:2 Conference (Start: 06:45, Return: 22:00)	Panel Session: Panel Session: 25 22:25) lotel VanderVall	ception at Castle Diedersdorf (18:00 - 22:15) Hotel VanderValk => Castle Diedersdorf (17:40) Castle Diedersdorf => Hotel VanderValk (22:00) k => Conference (Start: 07:00, Return: 22:10) > Conference (Start: 07:00, no return)
(O	Option A	. Ор	tion B Option C Option 60,- € □ 3.840,- € □ 4.440,-	D	Bronze-Sponsoring
tor			720,-€ □ 7.680,-€ □ 8.880,-		Silver-Sponsoring
Exhibitors			.200,- € □ 12.800,- € □ 14.800		Gold-Sponsoring
Ж	m² Stand $\ \square$		□ □		All prices subject to 19% German VAT
			☐ Authority / Research –		
	Outdoor Stand with	111	Authority / Research =	15%	Discounts are not combinable
Com	/ Title / Name / Surname pany / Institution ice Address				
Phor	ne / E-Mail				

City / Date / Signature

Important notes: With your registration you agree to the storage of your personal data as well as the publication of photos taken at the conference. You will receive an entrance card 3 weeks prior to the conference in case your registration has been successful and accepted. Participation might be rejected on individual basis. Liability: In case of cancellation for any reasons, registered participants and exhibitors will be notified immediately and participation and exhibition fees will be reimbursed. In this regard, the liability of SGW is limited to the participation and exhibition fees.

> This Conference is organised by: German Association for Defence Technology - Centre for Studies and Conferences Ltd., Hochstadenring 50, D-53119 Bonn, www.dwt-sgw.de Managing Director: Colonel (ret.) Bernd Kögel, Tel.: +49-228-41098-0, Fax: +49-228-41098-19, info@dwt-sgw.de, Bank: Sparkasse KölnBonn, IBAN:DE36 3705 0198 0053 0033 80, BIC: COLSDE33 VAT Nr.: DE 189 475 986, Trade Register 7692, District Court of Bonn