



25.–27.9. 2019 | Darmstadt, Germany
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Programme

Interdisciplinary Conference on Technical Peace and Security Research

Last update 22.9.2019

Location

Lichtenberg Haus, TU Darmstadt
 Dieburger Straße 241, 64287 Darmstadt

Colours

Social Event

Single Track

Parallel Track

Talks

max. 17min Presentation

~6min Discussion

~2min Change

Thursday: 27min each in total until the next talk

Friday: 25min each in total until the next talk

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Day 1: Wednesday, 25th of September



Start	Duration	Chair/Presenter	Organization	Topic	Track / Room
15:00	01:00	Dr. Jürgen Altmann	FONAS	FONAS-Mitgliederversammlung (just for FONAS members)	Kaminzimmer
15:30	00:30			Arrival with Refreshment	
16:00	02:00	Prof. Alfred Nordmann	(Moderation)	Pre-Workshop: IANUS @ 30+ Anniversary (open for all conference participants; in German)	Main Hall
16:00	17:00	Prof. Alfred Nordmann, Dr. René von Schomberg	IANUS	Looking Back: Prospektiv, integrativ, wertorientiert - IANUS Impulse für eine nachhaltige Friedensforschung	-
17:15	18:15	Prof. Alfred Nordmann, Dr. René von Schomberg	IANUS	Looking Ahead: Zwischen Universität und Zivilgesellschaft - ein Makerspace für friedenspolitische Technikgestaltung	-
18:30	00:30			Reception with Drinks	
19:00	00:45	Prof. Christian Reuter	(Moderation)	Opening and Ceremonial Address	Main Hall
19:00	00:10	Prof. Christian Reuter, Dr. Jürgen Altmann, Prof. Malte Göttsche, Dr. Mirko Himmel	Conference Chairs	Welcome to SCIENCE PEACE SECURITY '19	-
19:05	00:05	Prof. Alfred Nordmann	IANUS	Very Short Workshop-Summary and Introduction of the Talk	-
19:10	00:30	Prof. Jürgen Scheffran	Univ. Hamburg	Ceremonial Address: The Ambivalence of Science and Technology	-
19:45	02:25			Pre-Conference Dinner	
22:00				End of Wednesday	

Day 2: Thursday, 26th of September



08:00	01:00			Registration and Coffee Reception	
09:00	00:30	Prof. Christian Reuter	(Moderation)	Opening and Introduction	Main Hall
	00:20	Prof. C. Reuter, Dr. J. Altmann, Prof. M. Götttsche & Dr. M. Himmel	Conference Chairs	Opening by PEASEC, FONAS, IANUS and CROSSING (The General Chair and Track Chairs of the Conference)	-
	00:05	Prof. Ralph Bruder	TU Darmstadt	Welcome at TU Darmstadt (The Vice President of Technische Universität Darmstadt)	-
	00:05	Prof. Ulrich Schneckener & Dr. Thomas Held	German Foundation for Peace Research	Welcome by Deutsche Stiftung Friedensforschung (The President of German Foundation for Peace Resarch)	-
09:30	01:00	Prof. Christian Reuter	(Moderation)	Stage Setting: Central Challenges	Main Hall
T1	00:27	Dr. Oliver Meier	SWP	Disarmament, Arms Control and Non-Proliferation: Developments, Challenges, Solutions	3-BioChem
T2	00:27	Dr. Paul F. Walker	Green Cross International & ISFH	Three Decades of Chemical Weapons Demilitarization: Lessons for WMD Abolition	5-Open
10:30	00:30			Coffee Break	Small Hall
11:00	01:20	Prof. Malte Götttsche	(Moderation)	The Past and the Future of Natural-Science/Technical Peace Research	Main Hall
T3	00:27	Dr. Jürgen Altmann	TU Dortmund	New Military Technologies and International Security/Peace	4-NewTech
T4	00:27	Prof. Götz Neuneck	ISFH Hamburg	Future Technological and Political Arms Races – Challenges for Research and Implementation	2-Nuclear
T5	00:27	Prof. Martin Kalinowski	CTBTO, Vienna	The Work of the Comprehensive Nuclear-Test-Ban Treaty Organization	2-Nuclear
12:20	01:25			Lunch Break	Small Hall
13:45	01:20	Dr. Jürgen Altmann	(Moderation)	New Technologies for Peace and Security	Main Hall
T6	00:27	Prof. Christian Reuter	TU Darmstadt	Towards IT Peace Research: Peace and Conflict Research Challenges for Computer Science	1-Cyber
T7	00:27	Dr. Niklas Schörnig	HSFK/PRIF	Weapons Verification with High-Tech? – Chances of and Obstacles to Making Use of Emerging Technologies in Arms Control	4-NewTech
T8	00:27	Dr. Moritz Kütt & Prof. Alexander Glaser	ISFH Hamburg, Princeton Univ.	Chips, Bits & Atoms: Building Trusted Electronics for Disarmament Verification	1-Cyber
15:05	01:15			Extended Break (with Coffee and Cake) and Poster Session	Small+
		Prof. Christian Reuter	(Moderation)		Main Hall
				separate list of posters on next page	
16:20	01:20	Dr. Mirko Himmel	(Moderation)	Misuse, Nonproliferation and	Main Hall
T9	00:27	Prof. Kathryn Nixdorff	TU Darmstadt	Misuse Potential of Systems Biology – New Challenges for Biological Arms Control?	3-BioChem
T10	00:27	Dr. Jonas Siegel	Univ. Maryland	The Unintended Consequences of U.S. Nonproliferation Policies on ROK Nuclear Development	2-Nuclear
T11	00:27	Prof. Malte Götttsche	RWTH Aachen	Nuclear Archaeology – Understanding Fissile Material Inventories for Nuclear Disarmament	2-Nuclear
18:00	01:30	Birgit Schmidt	(Organization)	Break: Guided tour at Mathildenhöhe (optional)	
19:30	03:30			Conference Dinner	Main+Small Hall
21:15	00:15	Prof. Alfred Nordmann, Prof. Markus Lederer, Prof. Christian Reuter	IANUS	IANUS Award Ceremony	Main Hall
21:30	00:10			Collection of Ideas for Future Conferenes	Main Hall
23:00				End of Thursday	

Day 2: Thursday, 26th of September



Poster Session

15:15	01:15			Extended Break (with Coffee and Cake)	Main+Small Hall
15:15	01:15	Prof. Christian Reuter	(Moderation)	and Poster Session (Posters will be available the whole conference)	Main+Small Hall
Cyber-Security, Cyber-War and Cyber-Peace					
P1		Thea Riebe & Prof. Christian Reuter	TU Darmstadt	Accessing Dual Use in IT Development	1-Cyber
P2		Marc-André Kaufhold & Prof. Christian Reuter	TU Darmstadt	Social Media Misuse: Cultural Violence, Peace and Security in Digital Networks	1-Cyber
P3		Gina Maria Schmidbauer-Wolf, Franziska Herbert & Prof. Christian Reuter	TU Darmstadt	Responsible Data Usage in Smart Cities: Privacy in Everyday Life vs. Reacting to Emergency Situations	1-Cyber
P4		Katrin Hartwig & Prof. Christian Reuter	TU Darmstadt	Fighting Misinformation on Twitter: The Plugin based approach TrustyTweet	1-Cyber
Nuclear Nonproliferation/ Disarmament					
P5		Lukas Rademacher, Prof. Malte Götsche & Dr. Madalina Wittel	RWTH Aachen	Reactor Archaeology – Reconstruction of Operational Parameters from Isotope Ratios Measured in Structural Reactor Elements	2-Nuclear
P6		Dr. Moritz Kütt	ISFH Hamburg, Princeton Univ.	Technical and Legal Challenges for Germany to join the Treaty on the Prohibition of Nuclear Weapons	2-Nuclear
Biological/ Chemical Weapons					
P7		Hares Sarwary & Dr. Gunnar Jeremias	ZNF Hamburg	Biological Weapons – Sources for (Mass-) Disruption?	3-BioChem
P8		Prof. Volkmar Vill, Gesine Rempp & Dr. Mirko Himmel	Univ. Hamburg	Determination of Analog Structures as Instrument for the Risk Assessment of Hazardous Chemicals	3-BioChem
P9		Jan Oppen	ZNF Hamburg	Dual Use Research of Concern – Who Talks About What with Whom?	3-BioChem
P10		Dr. Mirko Himmel	ZNF Hamburg	Scientific Methods for Improving Biological and Chemical Arms Control	3-BioChem
P11		Maria Hemme	Univ. Hamburg	Toxins and the CWC – Validation of Analytical Methods for the Measurement of STX and Other PSP Toxins	3-BioChem
P12		Kolja Brockmann	SIPRI	Additive manufacturing: Increasing biological weapon proliferation risks?	3-BioChem
New Technologies and Arms Control					
P13		Hubertus Sonntag & Dr. Jürgen Altmann	TU Dortmund	Comparison of Seismic Signals of Tracked Vehicles on Asphalt and Sand Road	4-NewTech
P14		Arne Sönnichsen	Univ. Duisb.Essen	Echoes of the Past? New Technologies and Securitization in the Next Phase of the Space Age	4-NewTech
P15		Stefka Schmid, Thea Riebe & Prof. Christian Reuter	TU Darmstadt	Meaningful Human Control of LAWS: A Discourse Analysis of the CCW-Debate and its Implications for Value-Sensitive Design	4-NewTech
P16		Mathias Pilch & Dr. Jürgen Altmann	TU Dortmund	Small and Very Small Armed Aircraft and Missiles - Technical Potential, Dangers and Preventive Arms Control	4-NewTech

Day 3: Friday, 27th of September



08:00	01:00			Registration	Entrance+Small Hall
09:00	00:45	Dr. Mirko Himmel	(Moderation)	Technology and Disarmament	Main Hall
	00:15	Prof. Christian Reuter	TU Darmstadt	Welcome back!	
T12	00:30	Dr. Jonathan Forman	OPCW	Science and (Bio)Chemical Disarmament: Friends or Foes?	3-BioChem
09:45	00:15			Short Coffee Break	Small Hall
Parallel Sessions I:			Morning Sessions		
10:00	01:15	Prof. Christian Reuter	(Moderation)	Cyber-Security, -War & -Peace	Main Hall
T13	00:25	Dr. Moritz Weiss & Felix Biermann	LMU Munich	Varieties of Cybersecurity? The Institutional Foundations of Protecting Critical Infrastructures	1-Cyber
T14	00:25	Dr. Matthias Schulze	SWP	Quo Vadis Cyber Arms Control? – A Sketch of an International Vulnerability Equities Process	1-Cyber
T15	00:25	Thomas Reinhold	TU Darmstadt	Counting Cyber Weapons - New Approaches to regulate and control destructive Cyber Tools	1-Cyber
10:00	01:15	Dr. Mirko Himmel	(Moderation)	Biological/Chemical Weapons	Small Hall
T16	00:25	Dr. Mirko Himmel	ZNF Hamburg	Recent Developments in Biological and Chemical Arms Control	3-BioChem
T17	00:25	Dr. Una Jakob	ISFK/PRIF	Addressing Biotechnological Developments in the BWC Framework: Experiences and Options	3-BioChem
T18	00:25	Dr. Johannes Frieß	BOKU Vienna	Gene Drive – Technology with Dual-Use Potential?	3-BioChem
11:15	00:30			Coffee Break	Small Hall
Parallel Sessions II:			Midday Sessions		
11:45	00:50	Thomas Reinhold	(Moderation)	Arms Control in Outer- & Cyber-Space	Main Hall
T19	00:25	Arne Sönnichsen & Dr. Daniel Lambach	Univ. Duisb.Essen	A Developing Arms Race in Outer Space? Deconstructing the Dynamics in the Field of Anti-Satellite Weapons	4-NewTech
T20	00:25	Thea Riebe, Marc-André Kaufhold, Tarun Kumar, Thomas Reinhold, Prof. Christian Reuter	TU Darmstadt	Design of a Threat Intelligence Application for Cyber Attribution	1-Cyber
11:45	00:50	Prof. Malte Göttsche	(Moderation)	Peace, Safety and Security	Small Hall
T21	00:25	Prof. Alfred Nordmann	TU Darmstadt	Engaging the Stewardship Race: How does Peace enter in?	5-Open
T22	00:25	Prof. Jürgen Scheffran	Univ. Hamburg	Civil-Military Interactions, Dual-Use and Preventive Arms Control in Science and Technology	5-Open
12:35	01:25			Lunch Break	Small Hall
Parallel Sessions III:			Afternoon Sessions		
14:00	01:15	Prof. Markus Lederer	(Moderation)	Nuclear Nonproliferation & Disarmament	Main Hall
T23	00:25	Antonio Figueroa, Prof. Malte Göttsche	RWTH Aachen	Nuclear Archaeology: Reconstructing Reactor Histories From Reprocessing Waste	2-Nuclear
T24	00:25	Dr. Matthias Englert	Öko Insitute	Fissile Materials, Nuclear Proliferation and HEU Elimination	2-Nuclear
T25	00:25	Dr. Madalina Wittel & Prof. Malte Göttsche	RWTH Aachen	Prospects for Spent Nuclear Fuel Safeguarding with Antineutrino Detectors	2-Nuclear
14:00	01:15	Dr. Jürgen Altmann	(Moderation)	New Technologies and Arms Control	Small Hall
T26	00:25	Dr. Grant Christopher	VERTIC	Additive Manufacturing and the Military: Applications and Implications	4-NewTech
T27	00:25	Maaïke Verbruggen	Univ. Brussel	Me, Myself and the Swarm – an Assessment of the Challenges to Establishing Meaningful Human Control over Swarms	4-NewTech
T28	00:25	Prof. Hartwig Spitzer	Univ. Hamburg	Cooperative Transparency – Modernization of Open Skies Sensors in Tense Times	4-NewTech
15:15	00:30	Prof. Christian Reuter	(Moderation)	Future Peace Workshop	Main Hall
	00:10	Prof. Christian Reuter, Prof. Malte Göttsche & Dr. Thomas Held	TU Darmstadt, RWTH Aachen, DSF	Announcement of SCIENCE PEACE SECURITY '21	
	00:20	Prof. Christian Reuter	TU Darmstadt	Outlook and Future Discussions	
15:45	00:45			Farewell (with Coffee and Cake)	Small Hall
16:30				End of the Conference	