



NORTH ATLANTIC TREATY ORGANISATION
ORGANISATION DU TRAITÉ DE L'ATLANTIQUE NORD



NATO Chief Scientist
NATO HQ, 1110 Brussels
Belgium

Supreme Allied Commander, Transformation
Norfolk, Virginia 23551-2490
United States of America

STO-OCS(2018)0081

5000/TSC-FEA-0010/TT-180250/Ser: 0463

TO: See Distribution

SUBJECT: Calling Notice for the NATO 12th Operations Research and Analysis
Conference

DATE: 24 July 2018

1. On behalf of the Headquarters Supreme Allied Commander Transformation and the Science and Technology Organization, we are pleased to announce the opening of registration for the 12th NATO Operations Research and Analysis (OR&A) Conference to be held in Zagreb, Croatia, on 15-16 October 2018.
2. As part of the continuous development of a NATO OR&A Community of Interest, the event builds on previous conferences and workshops, bringing together the analysis community from NATO commands and agencies, national defence analysis and research organisations, centres of excellence, academia, and industry. It is our goal to provide an exciting program with plenty of opportunities for discussion and debate.
3. The 2018 theme is **“Tackling Complexity in NATO Operations in Contested and Degraded Environments”**. The conference will kick off with a number of keynote addresses and continue in three streams which are:
 - a. Understanding and Operating in the Cyber Domain;
 - b. Challenges and Opportunities of Rapid Reinforcement & Force Mobility and its Logistics Aspects;
 - c. Sense Making Through Analytics.
4. Registration for the conference can be done through the following (internet) link on the STO events site: <https://events.sto.nato.int/index.php/upcoming-events/event-list/event/17-sy/179-nato-operations-research-and-analysis-conference-2018>. Note that the conference is tethered to the Fall SAS Panel Business Meeting and will take place at the same location in the same week prior to the panel meeting.

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5. You can login with your credentials if you have an account on the STO events site, otherwise you will have to sign up first. During registration you will be given the opportunity to sign up for training and hands-on activities that run parallel to the two sessions where papers are presented and presentations held.
6. The conference will run for two full days starting at 0830 on Monday 15 October 2018 and ending at 1730 on Tuesday 16 October 2018. A preliminary conference programme is attached to this calling notice.
7. A General Information Package will be available (password protected) at this meeting announcement on the STO events site after registration is validated. This package contains all information to make travel arrangements, benefit from negotiated hotel rates and online conference fee payment. Presentations will be published at the same location (password protected) one week prior to the conference and only accessible to participants in the conference.
8. Should there be any questions, our point of contact for registration is, Mr Jeroen Groenevelt, STO Collaborative Support Office (CSO), Jeroen.Groenevelt@cso.nato.int, +33 1 55 61 22 77. For questions concerning the programme, presentations and training our point of contact is Mr. Tom Baldwin, ACT, tom.baldwin@act.nato.int, +1 757-747-3876.
9. Please submit any question to our POCs above or to the Programme Committee Chairs: Mr. Han de Nijs, johannes.denijs@act.nato.int, +1 757 747 3387 or to Ms. Jacqueline Eaton, eaton.jacqueline@hq.nato.int, +32 2 707 6979.



Dr Thomas Killion
NATO Chief Scientist
Chairman, NATO Science & Technology Board
NATO HQ



Johannes de Nijs
NATO Civilian
Acting Assistant Chief of Staff
Capability Engineering & Innovation
HQ Supreme Allied Commander
Transformation

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COE Joint Air Power
COE Joint Chemical, Biological, Radiological and Nuclear Defence
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List I, II, III, IV, V, VI and VII

**12TH NATO OPERATIONS RESEARCH AND ANALYSIS CONFERENCE
15-16 October 2018, Zagreb, Croatia**

ENCLOSURE 1 TO
STO-OCS(2018)0081
5000/TSC-FEA-0010/TT-180250/Ser: 0463
DATED: 24 JUL 18

Programme

Sunday 14 October 2018						
1900-2100	Registration (Foyer)					
Monday 15 October 2018						
0800-0830	Registration (Foyer)					
	Plenary					
0830-0900	Welcome and Admin					
	HQ SACT - ACOS Requirements					
	MOD - Croatia					
0900-1000	Keynote: BGEN (Sel) Fleischmann					
1000-1030	Coffee Break (Foyer)					
	Plenary Room		Breakout Room 1		Breakout Room 2	
1030-1200	Understanding Strategic Level Decision Making in the Cyber Domain	Bernier (Melanie)	Strategic Lift modelling within Defence Planning	Evering (Roxanne)		
	A Knowledge-Based Model for Assessing the Effects of Cyber Warfare	Maathuis (Clara)	Gamification of Integrated Logistic Support Training	Capli (Levent Berke)	Selling OR&A	Jackie Eaton
	A Collateral Effects Estimation Framework for Non-Munitions Targeting Analysis	Ghanmi (Ahmed)	Stochastic Mixed-Integer Programming for a Spare Parts Inventory Management Problem	Fügenschu (Armin)		

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1200-1300	Lunch (Foyer)					
	Plenary Room		Breakout Room 1		Breakout Room 2	
1300-1430	Analytical Wargaming	Collins (Sue)	Red Teaming and Operations Assessments	Dr. Anton Minkov	Simul8	DSTL
			Conducting Assessments with Limited Data	Mr. Joseph P. Nowak		
	Future littoral operations: Preparing operations analysis for the challenges to come	Veldhuis (Guido)	Assessment Gaps in NATO	Dr. Ben Connable		
			Operations Assessments with a Decisive Action Focus	Swedberg (Andy)		
	Child Soldiers in the Cyber Domain	Johnson (Dustin)	Analytical Support for CJTF-HOA	LTC Vincent Boncich		
			Rethinking the Assessment of NATO Operations	Harless (Gary)		
1430-1500	Coffee Break (Foyer)					
1500-1630	Threatcasting (Title TBC)	Col Hall (Andrew)	Meeting the Unmet Data Collection & Management Requirements for Analytics in Support of Military Operations	Eaton (Jackie)	Simul8	DSTL
	FATE: a way to anticipate socio-technical evolution in a future contested world	Dr. Adlakha-Hutcheon (Gitanjali)	Getting Grip on Big Data with Autonomous Multi-Source Analysis	van der Vecht (Bob)	Selling OR&A	Jackie Eaton
	Technology Assessment in future Alliance Operations (TAO)	Rizzo (Gabriele)	Internet of Things and Machine Learning for Information	Ibnkahla (Mohamed)		
Plenary						

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1630-1730	Keynote: Ben Snively (Amazon)					
1730-1900	Icebreaker (Foyer)					
Tuesday 16 October 2018						
	Plenary					
0830-0930	Keynote: Prof Dekker					
	Plenary Room		Breakout Room 1		Breakout Room 2	
0930-1000	Operational Analysis Support to Development of NATO Global Support Hub Concept	Joyce (Scott)			Training - AltA	Sue Collins and Tom Baldwin
1000-1030	Coffee Break (Foyer)					
1030-1200	Recommendations on the adoption of Modelling and Simulation for analysis and decision making support for Deployment Planning	Caamano (Pilar)	NATO Force Composition Analysis (Title TBC)	Friede (Alexandra)	Training - AltA	Sue Collins and Tom Baldwin
	Research of resilience in an Initial Operation	Körber (Johann Christian)	Concept of Conventional Threshold	Murumets (Jaan)		

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	Rail Gauge Logistical Challenges in 21st Century Rapid Deployment and Reinforcement	Myers (Nicholas J.)	Tackling Combinatorial Explosion in Force Design	Taylor (Ben)		
1200-1300	Lunch (Foyer)					
	Plenary Room		Breakout Room 1		Breakout Room 2	
1330-1430	Approaches to implementing joint Cyber Defence Situational Awareness	Broen (Torgeir)	Analyzing metamodels to make sense of large scale simulations in a military context	Lamballais Tessensohn (Tim)		
	How the NATO Alliance can get offensive in the cyberspace domain	Searle (Jonathan)	Communications Intereoperability Tool (Title TBC)	Krupa (Elena)		
	JUMP: Tactical Cyber Mission Planning	Dudman (Tim)	Addressing NATO's modelling and analysis needs through multi-national collaboration	Baldwin (Tom)		
1430-1500	Coffee Break (Foyer)					
	Plenary					
1500-1530	Communicating Benefits of OR&A					
1530-1600	Awards					
1600-1630	Closing Remarks - CSO Director					