



OFFICIAL PROGRAM

Grand Hotel Mediterraneo, Convention Centre, Florence, Italy September 26-29, MMXVII

DAY 0 Monday 25th SEP, 2016

WHAT	MSG-150 (Modelling & Simulation Supporting (NATO) Concept Development &		
	Experimentation)		
WHERE	America Nord Conference Room	Conference Room	
10:30	Chair: Lt.Col. Biagini	<u>INVITED ONLY</u>	
12:30	<u>INVITED ONLY</u>		
WHERE	GHM Resta	aurant Area	
12:30	Lunch B	Break	
13:30			
WHAT	MSG-150 (Modelling & Simulation Supporting (NATO) Concept Development &	MSG-147 (M&S Support for Crisis and Disaster Management processes, and	
	Experimentation)	Climate Change implications)	
WHERE	America Nord Conference Room	America Sud Conference Room	
13:30	Chair: Lt.Col. Biagini	Chair: Col. Nikolov	
15:30	INVITED ONLY	INVITED ONLY	
WHERE	GHM Restau		
15:30	Networking Co	offee Break	
16:00			
WHAT	MSG-150 (Modelling & Simulation Supporting (NATO) Concept Development &	MSG-147 (M&S Support for Crisis and Disaster Management processes, and	
	Experimentation)	Climate Change implications)	
WHERE	America Nord Conference Room	America Sud Conference Room	
16:00	Chair: Lt.Col. Biagini	Chair: Col. Nikolov	
18:30	<u>INVITED ONLY</u>	INVITED ONLY	
WHERE	GHM Reception Desk		
09:00			
13:00	NATO CAX Forum 2017 attendees registration		
15:00	TATO CANTOLUM 2017 C	atternaces registration	
20:00			

DAY 1 Tuesday 26th SEP, 2017

WHERE	Reception		
09:00	NATO CAX Forum 2017 attendees registration		
13:00 WHAT	NATO CAX FORUM & WAMS 2017 OPENING SESSION – Plenary Speeches	MSG-150 (Modelling & Simulation Supporting (NATO) Concept Development & Experimentation)	
WHERE	CONTINENTI Conference Room	America Nord Conference Room	
10:00 10:15	Chair: LTC Jason JONES, NATO M&S COE CAX Forum Welcome Cpt (ITA N) Vincenzo MILANO, NATO M&S COE Director	Chair: Lt.Col. Biagini	
10:15 11:30	 KEYNOTE Speakers: Lieutenant General Miroslav ŽIŽKA, (CZE): Modelling &Simulation in support of Decision Making Dr. Thomas KILLION (USA), STO, Chief Scientist: The value of simulation for NATO Forces Training Mr. Thomas C. IRWIN, (USA) Executive Director, Joint Training, US JS J7:Global Integration - Developing a Global Joint Force Col. Gerhard ZEH, (DEU): Model & Simulation in Training – Changes & Challenges from a NATO JFTC perspective 		
11.30 11.40	COFFEE BREAK		
11.40 11.50	Welcome to Workshop NATO MSG 153, Dr. Wim Huiskamp, TNO, NL Welcome to WAMS: Prof. Agostino G.BRUZZONE, Simulation Team President, WAMS General Chair		
11.50 12.30	Chair: LTC Jason JONES, NATO M&S COE ROUND TABLE DISCUSSION Keynotes plus Mr. Wim Huiskamp (NLD), Mr.Agatino Mursia (ITA), Prof. Agostino Bruzzone(ITA), Prof.Erdal Cayirci (TUR) Chair: LTC Jason JONES, NATO M&S COE (USA)		
12.30 12.45	CAX FORUM ADMIN INSTRUCTIONS		
12:40 13:00	Photo Opportunity for WAMS & CAX Forum Attendees		
WHERE	Grand Hotel Mediterraneo (GHM) Restaurant Area		
13:00 14:30	Networking Lunch Break		

WHAT	CAX Forum Session	CAX Forum Session	CAX Forum & WAMS	MSG-150
WHERE	Europa Conference Room	Africa Conference Room	America Sud Conference Room	America Nord Room
ITEM	Command and Control to Simulation (C2SIM) Interoperability	M&S for Exercises and Planning	Interoperable Simulation	Modelling & Simulation Supporting NATO CD&E
14:30 16:30	Chair: Dr. Mark Pullen 1. Benefits of C2SIM, Mark Pullen 2. SISO C2SIM Standard, Mark Pullen 3. C2SIM in Simple Environments, Brian Wardman 4. C2SIM Infrastructure and Implementation, Mark Pullen	Chair: Lt.Col. Paolo Di Bella 1.Tutorial on Joint CAX Procedures and Architectures, Prof. Erdal Cayirci 2. MILSIM and EDMSIM: CAX simulations for Today's Challenges, Harry Thompson	 Chair: Dott.ssa Marina Massei, DIME, Genoa University Transition of a Monolithic Legacy M&S tool to aFfull SOA and practical Use Cases, Manlio Oddone, Agostino Bruzzone, C.Strode, NATO STO CMRE & University of Genoa, Italy Simulation of the Construction of a Lunar Habitat, Felipe Boni, André Carneiro, F.T.Leite, D.Rodrigues, Lucas Soares, G.Todesco, FACENS, Sorocaba Engineering College, Brazil Digital Cultural Heritage: How to use them? Applications on Florentine Architecture, G. Tucci, V. 	Chair: Lt.Col. Biagini
WHERE		GHM Res	Bonora, A. Conti, L. Fiorini, F. Panighini, E. I. Parisi, GeCo & DICEA University of Florence	
16:30				
17:00		Networking	Coffee Break	
WHAT	CAX Forum Session	CAX Forum Session	CAX Forum & WAMS	MSG-150
WHERE	Europa Conference Room	Africa Conference Room	America Sud Conference Room	America Nord Room
ITEM	Command and Control to Simulation (C2SIM) Interoperability	M&S-Based Computer Assisted eXercise and Experimentation (CAX ²)	Crisis Management	Modelling & Simulation Supporting NATO CD &E
17:00	 Chair: Dr. Mark Pullen C2SIM Sandbox Demonstration, Dr.Mark Pullen and Brian Wardman MSG-145 Task Group Plans and Progress, Brian Wardman 	 Chair: Lt.Col. Jan MAZAL Joint approach to Hybrid Warfare from Multiple Players, Prof.Bruzzone et al. Using Web Technologies to Streamline Preparation for Simulation-Driven Training Exercises, Mr. Peter Swan, VT 	Chair: Prof.Grazia TUCCI, University of Florence 1. Population Modelling and Simulation in Disasters & Emergency impacting on Critical Infrastructures, A.Bruzzone, G.Maglione, M.Agresta, R.Di Matteo, O.Nikolov, H.Pietzschmann, W.David, Simulation Team, NATO M&S COE, NATO CMDR COE & Bundeswehr	Chair: Lt.Col. Biagini
18:30	Discussion	MAK 3. A Discussion of Hybrid Replication, Mr. Kenneth R. Abramowski, Deputy Director I&S Training Support, Joint Multinational Simulation Center (JMSC) 4. Computer Assisted Wargaming Challenges, Lt.Col. Jan Hodicky	 Human Behavior and Social Influence: an application for Green Product Consumption Diffusion, M. Agresta, J.Hsien Hsu, DIME & De Montfort Universities, Italy & UK ECOSHE Simulator to Assess Human Error Probability During Industrial Emergency Conditions, F.De Felice, A.Petrillo, F. Zomparelli, Universities of Cassino & Parthenope 	
18:30 WHAT	Discussion	 A Discussion of Hybrid Replication, Mr. Kenneth R. Abramowski, Deputy Director I&S Training Support, Joint Multinational Simulation Center (JMSC) Computer Assisted Wargaming Challenges, Lt.Col. Jan Hodicky NATO CAX FORUM	for Green Product Consumption Diffusion , M. Agresta, J.Hsien Hsu, DIME & De Montfort Universities, Italy & UK 3. ECOSHE Simulator to Assess Human Error Probability During Industrial Emergency Conditions, F.De Felice, A.Petrillo, F. Zomparelli, Universities of Cassino & Parthenope 2017 SOCIAL EVENT	
	Discussion	 A Discussion of Hybrid Replication, Mr. Kenneth R. Abramowski, Deputy Director I&S Training Support, Joint Multinational Simulation Center (JMSC) Computer Assisted Wargaming Challenges, Lt.Col. Jan Hodicky NATO CAX FORUM	for Green Product Consumption Diffusion , M. Agresta, J.Hsien Hsu, DIME & De Montfort Universities, Italy & UK 3. ECOSHE Simulator to Assess Human Error Probability During Industrial Emergency Conditions, F.De Felice, A.Petrillo, F. Zomparelli, Universities of Cassino & Parthenope	

DAY 2 Wednes	sdav 27 th	SEP.	2017
		,	

WHAT	CAX Forum Workshop	CAX Forum Session	WAMS	
WHERE	Europa Conference Room	Africa Conference Room	America Sud Conference Room	
ITEM	CAX M&S Services	NATO Training/ Simulation Centres	Simulation Techniques & Methodoloiges	
09:00 10:30	 Chair: Dr. Robert SIEGFRIED, ADITERNA/ MSG-136 A Layered MSaaS Architecture and Testbed for Military Training and Exercise Clouds, Prof. Erdal Caiyrci Man in the Loop Virtual Asset, Massari, Bellini, Oliveira, Vampo-Leonardo A use case of virtual immersive training over a MSaaS approach in the OCEAN Project, Picollo, Mursia-Leonardo 	 Chair: LTC Jason JONES, NATO M&S COE Simulation Partnership Community Initiative, Col. Rob YOUNG, Director, Joint Multinational Simulation Center (JMSC) JFTC update, LTC Wolfhard SCHMIDT, NATO JFTC M&S COE update & Intro to M&S Enclave Initiative Continuum, Lt.Col. Jones/Biagini Presentation of M&S COE- JMSC Cooperation Initiative, C.V.Milano, Col. Young 	 Chair: Dr. Giovanni Luca MAGLIONE, Simulation Team Use of Simulation for Studying Ecosystem Tipping Points, T. Bossomaier, J. Brown, C. Johnson, Charles Sturt Univ. & Univ. of Tasmania, Australia CFD & Numerical Models Validation: from Predictive to Effective Design Tools, E. Cattaneo, G. Minestrini, A. Mola, A. Spoladore, Stara Glass & DIME Verification and Validation applied to an Interoperable Simulation including Human Factors respect Strategic Decision Making, A. Bruzzone, M. Massei, G. L. Maglione, P. Di Bella, V. Milano, DIME & SIM4Future & NATO M&S COE 	
WHER E		GHM Restaurant Area		
10:30 11:00	Networking Coffee Break			
WHAT		PLENARY MSAAS DEMO		
WHERE		Continenti Conference Room (Europa + Africa + A	Asia)	
ITEM		M&S as a Service		
11:00 13:00	Chair: Dr. Robert SIEGFRIED, ADITERNA/ MSG-136 Chairperson/ LTC Marco BIAGINI, NATO M&S COE MSaaS Experimentation & Evaluation and involvement of NATO and Nation			
WHER	GHM Restaurant Area			
13:00 14:30	Networking Lunch Break			
WHAT	CAX FORUM 2017 – SOCIAL EVENT			
WHERE		Florence Downtown		
15:00 19:00	Visit to Uffizi Gallery Museum			

DAY 3 – Thursday 28th SEP, 2017

WHAT	CAX Forum Session	CAX Forum Workshop MSG-153	CAX Forum
WHERE	Europa Conference Room	Europa Conference Room Africa Conference Room	
ITEM	National Simulation & Training Centers Best practices	Commercial Technologies & Games for Use in NATO and Nations Session 1: Game based Application	
09:00 10:30	 Chair: Lt.Col. Marco Biagini A Discussion of Interoperability, Mr. Thomas LASCH, Models & Simulations Division Chief, Joint Multinational Simulation Center M&S Enclave Initiative Workshop, Lt.Col. Biagini, M&S CoE 	Introduction - Chairs: Wim Huiskamp (TNO, NLD), Niels Krarup- Hansen (DALO, DNK), LTC W.Schmidt (JFTC, DEU) Keynote: Game based Training for Adult Learners, CDR. USN Rtd. Kimberley Himmer, Articulated Python, Inc. USA Chair: Mr. Niels Krarup- Hansen 1 The Naval Mine Warfare Gaming System, OF3 BEL Navy P. Clauwaert	
WHERE		GHM Restaurant Area	
10:30 11:00	Networking Coffee Break		
WHAT	CAX Forum Session	CAX Forum Workshop MSG-153	CAX Forum Session
WHERE	Europa Conference Room	Africa Conference Room	America Sud Room
ITEM	Complex environments: Creating Crisis from the Ground Up	COTS based Gaming & Assessment Platform for Scenario-based Training Session 2: Mission Planning and Decision Support Training	Multinational Capability Development Campaign (MCDC) & M&S Support to NATO CD&E
11:00 13:00	 Chair: LTC Walter DAVID, NATO M&S COE From the GIS to the operations simulation, LTC Walter DAVID, NATO M&S COE – (PRJ I-MOMA co-presented) The interplay between resilient cities and resilient responding organisations in crises, Prof Scira MENONI, POLIMI Disaster models and military simulation challeges, Col. Orlin NIKOLOV, CMDR COE Italian Military Geographic Institute Presentation 	 Introduction, Mr. Robert Pratten, CEO Transmedia Storyteller Ltd, UK Chair: LT.Col. Wolfhard Schmidt 1. NATO Virtual Operation Center, Mr. Cem Kumsal, ACT 2. Enhanced Luna Warrior – An example of how to connect commercial tools and scientific methods into a solution for training in the German Armed Forces, Maj. Sandra Matuszewski, 2nd Lt. Leonie Johannsmann, GE Army 3. Enhanced Luna Warrior -Hands on and Discussion 	Chair: Lt.Col.Jan Hodicky 1. MCDC Capabilities, Mr. Carder US J7 2. M&S Supporting CD&E, H.Pietzschmann 3. M&S COE NATO CD&E Approach, Lt.Col. Marco Biagini 4. M&S for Decision Making Support, Lt.Col. Jan Mazal
		CLIM Restaurent Avec	l .

WHERE	GHM Restaurant Area
13:00	Notworking Lunch Prook
14:30	Networking Lunch Break

WHAT	NATO CAX FORUM 2017		
WHAT	CAX Forum Session	CAX Forum Workshop	NATO JCATS User Group
WHERE	Europa Conference Room	Africa Conference Room	America Sud Room
ITEM	CAX & Interoperability	Commercial Technologies and Games for Use in NATO &Nations Session 3: Modular Game Architectures & Standards	M&S Best Practices
14:30 16:30	Chair: Lt.Col.Paolo Di Bella 1. NORCAX brief, LT.Col. NOR A Bjarne Korsgard 2. Simulation & war games in the Hellenic armed forces, Lt.Col. HE MAVRATZOTIS 3. CAX in the information Age- Cyber Warfare and Beyond, M. Pegelow-CAE 4. NATO Education and Training Network - Federation Architecture and FOM Design, Mr.B.Lofstrand, PITCH	 Chair: Mr. Wim Huiskamp Outbrief from MSG ET-044 Modular Game Architectures. How should standards for COTS and Serious Games be developed and supported by Industry, Mr. Wim Huiskamp, TNO NLD Standards for Augmented Reality and Virtual Reality, by Webex; Mr. Adrian Webb, Virtual World Manager MoD, AUS Future proofing the Virtual Battlespace, Mr. Peter Morrison, CEO Bohemia, AUS Missile Defense Training Gamification, Mike Viland, USSTRATCOM/JFCC IMD 	 French Army Training Tools, Col. Claude CHARY Using JTLS-GO For Globally Integrated Exercises, Mrs. Roland Constructive Simulation with a Higher Automation Level for Training and Decision Support, Thomas Stegemann Generating JTLS Scenario with GIS, Aknai, Segalin, Fabaris Inc
		NATO CAX Forum Closing Session	
WHERE		Continenti Conference Room	
		Chair: Cpt (ITA N) Vincenzo MILANO, NATO M&S COE Director	
17:00 17:30	F	Final Remarks and declaration of NATO CAX Forum 2018 Event	

	DAY 4 – Friday 29 th SEP, 2017		
WHAT		MSG-150 (Modelling & Simulation Supporting (NATO) Concept Development & Experimentation)	
WHERE	Australia Conference Room	America Sud Conference Room	
09:00 10:30	CAX FORUM HOT WASH UP	Chair:Lt.Col. Biagini	
WHERE	GHM Restaurant Area		
10:30 11:00	Networking Coffee Break		
11:00 13:00	WAY AHEAD: CAX FORUM 2018		