







US-Italy JCM Advanced Materials

Technical Exchange Meeting and Site Visit (11-15 April 2016 - ITALY)

Program

Sunday 10 April

Late morning Arrival in Rome

Evening Free

Monday 11 April

Monday 11 April		
9:00 am	Arrival at National Research Council (CNR) HQ Piazzale Aldo Moro, 7 – Rome	
9:00	Registration and Welcome Coffee (Room Biblioteca "G. Marconi", Ground Floor)	
9:30	Welcome	Dr Thomas Christian, Director, AFOSR (Head of the U.S. Delegation) Dr. Virginia Coda Nunziante, Director, CNR-International office affairs
9.45	Introduction: Co- chair overview of WG activities and visit program	Dr. Luigi Ambrosio, Director – CNR Dr Sofi Bin-Salamon, International Program Manager, AFOSR
	Overview Italy	
10:0	National Reasearch Council (CNR) Department of Chemical Sciences and Materials Technology	Dr. Luigi Ambrosio, Director
	Department of Physical Sciences and Technologies of Matter	Dr. Corrado Spinella, Director
	Department of Engineering, ICT, Energy and Transportation	Dr. Marco Conti, Director
	Department of Biomedical Sciences	Prof. Tullio Pozzan, Director
11.00	Break	
11.15	Italian Aerospace Research Center (CIRA)	Dr. Mario Cosmo, General Director
11.30	University of Rome – Sapienza	Prof. Teodoro Valente Deputy Rector for Research, Innovation and Technology Transfer
	U.S. Overviews	
11.45	Air Force Office of Scientific Research (AFOSR)	Dr Thomas Christian, Director of the Air Force Office of Scientific Research









12.05	NASA's Glenn Research Center	Dr John Sankovic, Chief Technologist of the NASA Glenn Research Center
14.00	Convergence of Engineering and Oncology	Dr. Larry Nagahara, Associate Dean for Research, Johns Hopkins University
14.20	Prospects of Visionary International Research Networks	Prof. Ozden Ochoa, TEES Research Professor, Texas A&M University
14.40	Energy Harvesting Materials and Systems	Prof. Shashank Priya, Robert Hord Professor and Turner Fellow, Virginia Polytechnic Institute and State University
15.00	Break	,
	International Research Infrastructure	
15.15	An Introduction to the Australian National Fabrication Facility	Mrs Rosie Hicks – Chief Executive Officer, Australian National Fabrication Facility
15.35	Overview of MINTEK's Research and Development	Dr Makhapa Makhafola – General Manager, MINTEK National Science Council of South Africa
15.55	Open discussion	
16:40	Closing meeting	

Tuesday 12 April

9:00 am	Arrival at at the Italian Aerospace Research Centre (CIRA) Via Maiorise, Capua	
9:00 -9:30	Welcome coffee (Pascale Conference Room)	
9:30	Welcome	Prof. Luigi Carrino, President, CIRA Dr. Thomas Christian (Director of AFOSR,SES)
9.40	Visit Introduction	Dr. Mario Cosmo (CIRA General Director)
9.50	Italian Space Agency Overview	Dr. Alessandro Gabrielli, ASI Head of Launchers and Space Transportation Department
10:10	CIRA Activities on Hypersonic Programmes -IXV and PRIDE	Dr. Giuseppe Rufolo (Project Manager) Dr. Attilio Rispoli (Project Manager
10.50	-HexaFly CNR/ISTEC activities on UHTC	Dr. Diletta Sciti (Senior scientist)
11.10	Break	
11.20	AFOSR Aerothermodynamics Program	Dr. Ivett Leyva (Program Manager)









11.40	AFOSR Materials for Extreme Environments Program	Dr. Ali Sayir (Program Manager)
12.00	NASA Glenn Research Center	Dr John Sankovic, Chief Technologist of the NASA Glenn Research Center
12.20	DARPA MDP Program	Dr. Jesse Margiotta- Advisory Scientist
12:40	Lunch	
13:40 -15:40	CIRA Facilities Tour - Plasma Wind Tunnels- SCIROCCO & GHIBLI - Space Qualification Lab Structures and Materials Lab	
15:40 -16:00	Wrap – up and Conclusions	
		All Delegation
16:00	Taxi Pick up to Capodichino Airport (4PAX) Departure 18:35 – arrival 20:15 Napoli (NAP) – Monaco di Baviera (MUC) Lufthansa 1929	Dr. Thomas Christian (Director of AFOSR,SES) Dr. Ali Sayir, Dr. Ivett Leyva, Dr Russell Cummings
Wednesday 13	<u>April</u>	
7: 30 am	Train Departure to Bologna from Roma Termini Station Train 9608 Frecciarossa Dep 07:30 am Roma Termini Arr 09:25 am Bologna Centrale	(Use the www.trenitalia.com to purchase your ticket on line)
09.25 9.35 9.45	Arrival at Bologna Station Transfer to CNR, Bologna Research Area, Via Piero Gobetti, 101, 40129 Bologna. Arrival to CNR – Bologna	
10.00	Welcome	
10.10	Welcome and Overview presentation of the CNR -Bologna Research Area	Dr. Luigi Ambrosio <u>www.dsctm.cnr.it</u> Dr. Roberto Zamboni, President of CNR- Bologna Research Area. <u>www.bo.cnr.it</u> , <u>www.isof.cnr.it</u>
10.20 -11.20	MISTER and CNR delegates activities/infrustructure presentations. Basic science and innovation by materials	Michele Muccini, President of MIST E-R and Director of Institute for Nanostructured Materials Studies (ISMN)
	Organic Photonics Brain-material interface Control of material properties by processing Advanced functional materials	Stefano Toffanin, (ISMN) Valentina Benfenati, ISOF Massimiliano Cavallini ISMN Vincenzo Palermo, ISOF
11. 20 - 12.20	US- Presentation (Short overviews and identification of	

Virginia Tech, Texas AM, John Hopkins

AFOSR and NASA's Glenn Research Center

areas of interest)

Australian National Fabrication Facility, MINTEK National Science Council of South Africa









12.20	Lunch	
13.20-14.30	Visit to CNR main infrastructures in the Campus: - Large Area Flexible Fabrication Facility (ISMN/MIST E-R) - Nano-fetmosecond Spectroscopy Lab (ISMN) - Electrophysiology Lab (ISMN) - Cellular and Molecular Biology Lab (ISOF) - Graphene Factory (ISOF/MIST E-R) - Silicon-Tech Fabrication Lab (IMM/MIST E-R)	
14.30-15.30	University of Bologna: an overview, selected thematic focus areas and possibilities of collaboration	
	An Overview of UNIBO Aerospace and Advanced Materials@UNIBO	Prof. Beatrice Fraboni, UNIBO Delegate for US and professor of Condensed Matter Physics Prof Paolo Tortora Prof. Enrico Troiani
15.30	Break	
15.45	The Emilia-Romagna Region Innovation and technology transfer Agency ASTER S.Cons.p.A. <u>www.aster.it</u>	Dr. Valeria Bandini Department Manager of ASTER
16.15	Region Emilia Romagna Research landscape	Dr. Morena Diazzi, General Manager of the Emilia-Romagna Region
16.30	Wrap up and next steps	

Thursday 14 April		
8.15	Transfer to Research Institute for Ceramic Technology - ISTEC - Faenza (Ravenna)	
9.30	Arrival and Welcome coffee	
10.00	Presentation of ISTEC activities	Dr. Anna Tampieri, Director
10.30	Visit to ISTEC facilities	
11.30	Wrap up and next steps	
13.00	End of the Visit at ISTEC	
13.05	Transfer to Bologna Station	
14.25 - 14.59	Transfer from Bologna to Florence Rome by Train Dep 14:25 Bologna Centrale, Arr 14:59 Firenze S. M. Novella (Duration 00:34) Train: Frecciarossa 9533	www.trenitalia.com
15.00	Transfer to University of Florence (venue P.zza S.Marco, 4 - 50121 Firenze – TBC)	
	Cida Vicit	

Side Visit









15.30 Visit University of Florence
University Portfolio Overview (20')

U.S. Presentations (Short overviews 5' each) - tot 35'

- AFOSR, NASA's Glenn Research Center - Virginia Tech, Texas AM, John Hopkins

- Australian National Fabrication Facility, MINTEK National

Science Council of South Africa

Followed by a open discussion on areas of potential

common interest and collaboration

17.30 Free time in Florence

19.08 - 20.40 Departure from Florence to Rome

Organized by Prof, Giorgia Giovanetti Deputy Rector international relation and Prof. Arnone Deputy Rector for Tecnology Trasfert and industry relations

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Friday15 April

9.30 Working Group meeting - , CNR HQ, Piazzale Aldo Moro 7,

Rome, Room "V. Volterra", 1st Floor

14.00 End of the meeting and Transfer to INFN

15.00 Possibility Visits

National Laboratory of Frascati (LNF) - National Institute

for Nuclear Physics (INFN)

Dr. Pierluigi Campana- Director- LNF

17.30 End of the visit *Transfer to Rome*