

WEF2017

WORLD ENGINEERING FORUM
WFEO GENERAL ASSEMBLY

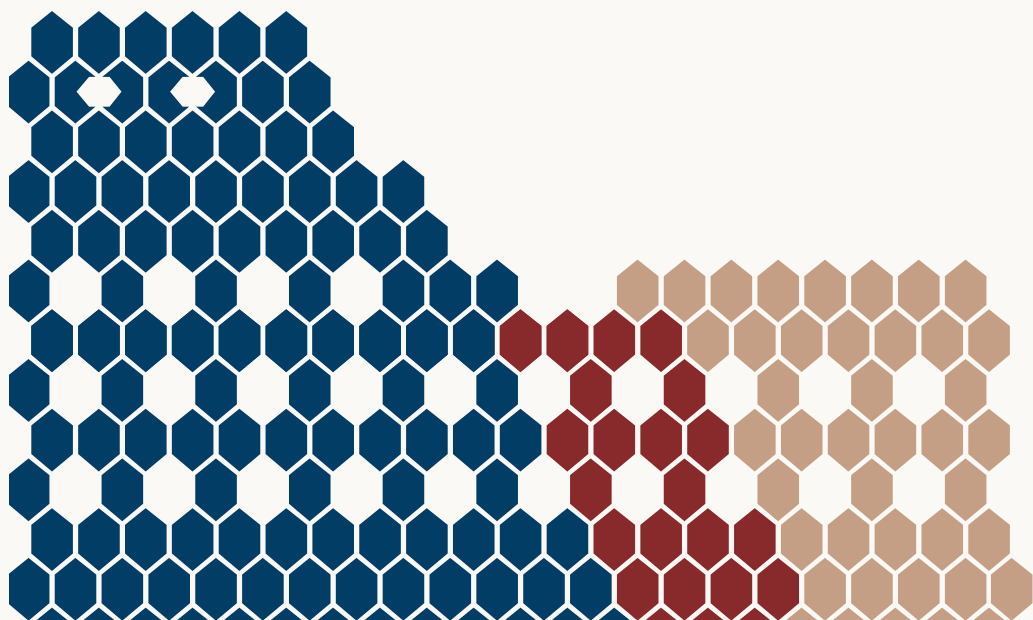


The World Federation of
Engineering Organizations

26 November / 02 December 2017 Sheraton Roma Hotel - Rome, Italy

SAFEGUARDING HUMAN KIND'S HERITAGE,
THE GREAT CHALLENGE FOR ENGINEERS

P R O G R A M M E



www.wefrome2017.com



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26 November / 02 December 2017 Sheraton Roma Hotel - Rome, Italy

SAFEGUARDING HUMANKIND'S HERITAGE,
THE GREAT CHALLENGE FOR ENGINEERS

WEFROME2017

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WELCOME



The National Council of Italian Engineers is very glad to host the World Engineering Forum (WEF 2017). The event, organized with WFEO, is due to take place on 27th (opening ceremony), 28th and 29th November, in Rome. The main topic of WEF2017 will be “Safeguarding humankind's heritage, the great challenge for engineers”. The Forum will focus on the engineering support offered to the social and economic development, with special reference to the role of engineering in sustainable development and technological innovation. During the WEF2017,

WEFROME2017

innovative developments, technological applications and best practices related to the general topic of the forum, will be explored and analyzed.

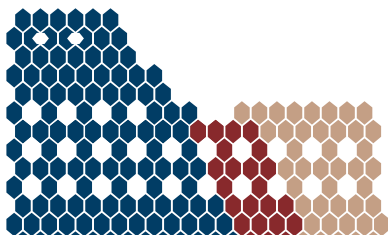
WEF2017's mission will be that of orienting the world towards the safeguarding of its heritage through the help of innovation and creativity.

Public speakers of high-level, national and international organizations, academia, businesses and professionals will meet and confront each other. We will discuss and share innovative ideas, solutions and practices from all over the world.

It will be a pleasure for me to welcome you to Rome!

Armando Zambrano
CNI President

SCIENTIFIC COMMITTEE



Jorge Spitalnik

President of the World Federation of Engineering Organizations (WFEO)

Marlene Kanga

President Elect WFEO

Marwan Abdelhamid

Past-President WFEO

Martin Manuhwa

Chair of WFEO Committee on Anti Corruption (CAC)

Yashin Brijmohan

Chair of WFEO Committee on Engineering Capacity Building (CECB)

Toshimitsu Komatsu

Chair of WFEO Committee on Disaster Risk Management (CDRM)

Samuel Grossman

Chair of WFEO Committee on Energy (CE)

Jean Venables

Chair of WFEO Committee on Engineering and the Environment (CEE)

Abdul Menhem Alameddine

Chair of WFEO Committee on Education in Engineering (CEIE)

Ke Gong

Chair of WFEO Committee on Engineering for Innovative Technologies (CEIT)

S.S. Rathore

Chair of WFEO Committee on Information and Communication (CIC)

Valerie Ifueko

Chair of WFEO Committee on Women in Engineering (WIE)

Zainab S. Garashi

Chair of WFEO Committee on Young Engineers / Future Leaders (YE/FL)

Alex Tarchini

EMEA EDU Business and Market Development

Jan Kowal

Director of the Department of Engineering and Innovation at the Open University

Paul Jowitt

President of the Commonwealth Engineers Council (CEC)

Manchao He

Director of the State Key Laboratory for Geomechanics and Deep Underground Engineering

Surendra Kumar Biswa

CSIR Council of the Scientific and Industrial Research

Adil Al Hadithi

President of the Federation of Arab Engineers (FAE)

Mustafa Shehu

Past President of the Federation of the African Engineering Organizations (FAEO)

José Manuel Vieira

President of the FEANI – European Federation of National Engineering Associations

John Li Chien Chung

President of the Federation of Engineering Institutions of Asia and the Pacific (FEIAP)

Edemar Amorim

Pan American Federation of Engineering Societies (UPADI)

Ashok Kumar Basa, FIE

Past President of the Institution of Engineers (India)

Michael Milligan

ABET (Accreditation Board for Engineering and Technology)

Jennifer Deboer

Co-Director of the International Institute for the Development of Engineering Academics

Gustavo Arvizu Lara

President of the Unión Mexicana de Asociaciones de Ingenieros (UMAI)

Vito Cardone

President of the Quacing

Piero Torretta

President of the Ente Italiano di Normazione (UNI)

Nicola Monda

Italian delegate of the WFEO

Maurizio Tira

Dean of the University of Brescia

Massimo Sessa

President of the Consiglio Superiore dei Lavori Pubblici

Marco Tubino

President of the Conferenza per l'Ingegneria (COPI)

Giovanni Cardinale

Vicepresident of the Italian National Council of Engineers (CNI)

Gaetano Manfredi

President of the CRUI

Enzo Siviero

Rector of the University eCAMPUS

WFEO EXECUTIVE COUNCIL

WFEO EXECUTIVE BOARD

- Jorge Spitalnik** President
- Marlene Kanga** President Elect
- Marwan Abdelhamid** Past President
- Peter Greenwood** Executive Vice President
- Crtomir Remec** Executive Vice President
- Reginald Vachon** Treasurer
- Pierre de Boigne** Deputy Treasurer
- Jacques de Méreuil** Executive Director

WFEO COMMITTEE CHAIRS – VICE PRESIDENTS

- Abdul M. Alameddine** Education in Engineering
- Jean Venables** Engineering & the Environment
- Ke Gong** Engineering Innovative Technologies
- S.S. Rathore** Information & Communication
- Zainab Garashi** Young Engineers / Future Leaders
- Samuel Grossman** Energy
- Valerie Ifueko** Women in Engineering
- Martin Manuhwa** Anti-corruption
- Toshimitsu Komatsu** Disaster Risk Management
- Yashin Brijmohan** Engineering Capacity Building

WFEO EXECUTIVE COUNCIL

WFEO NATIONAL MEMBERS

José Tadeu Da Silva Brazil

Vilas Mujumdar USA

Ruomei Li China

Ashok Basa India

Haro Bedelian UK

Khaled Chehab Lebanon

Nicola Monda Italy

Tomas Sancho Spain

WFEO INTERNATIONAL MEMBERS

CEC **Paul Jowitt** Commonwealth Engineers Council

FAE **Adil Al Hadithi** Federation of Arab Engineers

FAEO **Julius M. Riungu** Federation of African Engineering Organizations

FEANI **José Manuel Vieira** European Federation of National Engineering Associations

FEIAP **John Li** Federation of Engineering Institutions of Asia and the Pacific

UPADI **Edemar Amorim** Pan American Federation of Engineering Societies

WEF2017 is held under the patronage of UNESCO



CONSIGLIO NAZIONALE DEGLI INGEGNERI

The Italian National Council of Engineers (CNI) is the institutional national body representing the professional category of the Italian engineers. CNI is a non-economic public entity, established in 1944 and placed under the supervision of the Ministry of Justice. The institutional commitment of CNI includes, among others, the following tasks: to express opinions concerning decisions made by the Disciplinary Committees of each provincial Order of Engineers relevant to appeals and complaints; to issue legal opinions, on behalf of the Ministry of Justice, concerning legislative or regulation proposals about the profession of engineer; to act as advisory body towards the Governmental, Institutional and Supervisory Authorities, which deal with the profession of engineer.

CNI plays a significant role in: promoting, developing and safeguarding the figure of the Engineer in the society; providing the Continuing Professional Development and ensuring the quality of the professional performances. Activities and objectives of CNI give high importance to the following topics: safety and security of people and goods, environment protection, safeguarding of the natural resources, sustainable development, scientific and technological progress, and enhancement of the intellectual work.



CONSIGLIO NAZIONALE
DEGLI INGEGNERI



WFEO

WFEO is an international, non-governmental organization representing the engineering profession worldwide. Since 1968, the World Federation of Engineering Organizations brings together national engineering organizations from over 90 nations and represents some 20 million engineers from around the world.

WFEO serves society and is recognized as a respectable and valuable source of advice and guidance on the policies, interests and concerns that relate to engineering and technology.

WFEO encourages all of its national and international members to contribute to global efforts to establish a sustainable, equitable and peaceful world.

MISSION

- To represent the engineering profession internationally, providing the collective wisdom and leadership of the profession.
- To assist national agencies to choose appropriate policy options that address the most critical issues affecting countries of the world.
- To enhance the practice of engineering.
- To make information on engineering available to the countries of the world and to facilitate communication between its member nations about the world's best practices in key engineering activities.
- To foster socio-economic security and sustainable development and poverty alleviation among all countries of the world, through the proper application of technology.
- To serve society and to be recognized by national and international organizations and the public, as a respected and valuable source of advice and guidance on the policies, interests and concerns that relate engineering and technology to the human and natural environment.
- To cooperate with Funding Agencies such as development banks.
- To encourage public private partnerships by including the engineering dimension.
- To address the issue of what public policies need to be implemented.



The World Federation of
Engineering Organizations

FORUM OVERVIEW

THEMES

- Engineering must help achieve material wealth within a sustainable development perspective. Technological research and smart applications should support societies and countries in generating social values and safeguarding the social and cultural heritage of each community of people.
- Defining engineering's social mission in a rapid changing context will be the starting point of the event, which will then focus on challenges related to safeguarding and developing humankind's heritage.
- Science, technology and engineering should contribute to two principles: ensuring social and technological changes for a better life and safeguarding the context in which such changes take place. Engineers should not only lead progressive material wealth but also act for the conservation of humankind's heritage, defining a new development path.
- WEF2017 aims to analyze humankind's heritage in different aspects, considering its conservation and preservation as a great challenge for engineers and for society. Rapid changes on a global scale may represent opportunities for increasing material wealth, but also threats to the preservation of the common heritage of each country, including landscape, natural environment, climate and monumental heritage. Engineering should propose smart solutions, combining development, wealth and conservation of humankind's heritage through different approaches.
- The Forum is open both to decision-makers and professionals working in the field of managing, restoring and safeguarding cultural heritage and its different components. Managers, designers, researchers and restorers dealing with a wide range of activities connected with safeguarding humankind's heritage are warmly welcome to the event, as are representatives of governmental and institutional bodies.

VENUE

SHERATON ROMA HOTEL & CONFERENCE CENTRE

Viale del Pattinaggio, 100 - Rome

Sheraton Roma is a Conference Hotel with 20 meeting rooms and over 4,100 m² of meeting spaces including a multifunctional ballroom that can be divided into seven soundproof sections. The hotel is located next to the EUR district, between Fiumicino airport and the city centre.



GLOBAL IDEAS AND SOLUTIONS FOR WORLDWIDE INFRASTRUCTURE PROJECTS

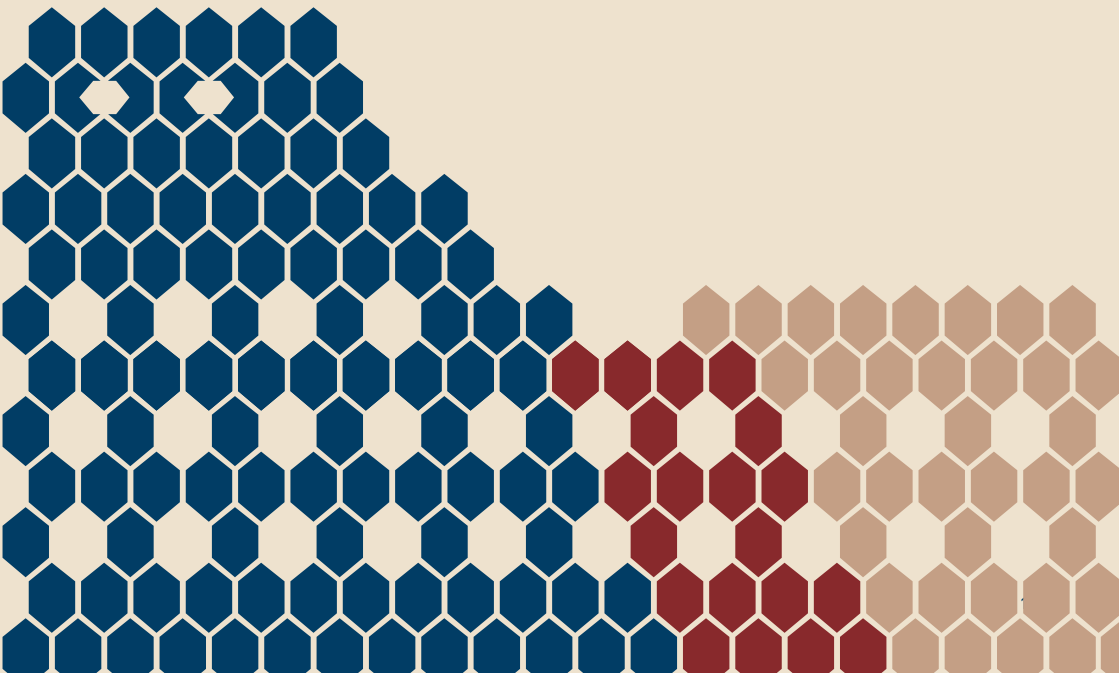
Italferr, the engineering arm of **Ferrovie dello Stato Italiane Group**, is a leading provider of design, site supervision and project management services for infrastructure projects, on the Italian and international markets. From planning and design to commissioning, we have the know-how – based on more than 30 years' experience – to offer our clients the best integrated technology solutions, with a low environmental impact, to help build a better world.

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WFEO PROGRAMME



SUNDAY 26 NOVEMBER 2017

WFEO Registration						
	HALL TIZIANO	HALL MALATESTA	HALL LUDOVISI	HALL BENTIVOGLIO	HALL COLONNA	HALL DORIA
08:00 / 09:00	WFEO Registration					
09:00 / 10:30	Young engineers/ Future leaders meeting		WFEO CAC Anti-Corruption Workshops	Finance Committee	Committee on Women in Engineering	IEA International Education Committee
10:30 / 11:00	Break					
11:00 / 13:00	Young engineers/ Future leaders meeting	President's Advisors Meeting	WFEO CAC Anti-Corruption Workshops	Finance Committee	Committee on Women in Engineering	IEA International Education Committee
13:00 / 14:00	Lunch					
14:00 / 15:30			WFEO CAC Anti-Corruption Workshops	Strategic Planning Committee	Committee on Energy	Committee on Engineering Capacity Building
15:30 / 16:00	Break					
16:00 / 18:00			Committee on Anti-Corruption Meeting	Strategic Planning Committee	Committee on Energy	Committee on Engineering Capacity Building

MONDAY 27 NOVEMBER 2017

WFE0 Registration					
	HALL TIZIANO	HALL LUDOVISI	HALL BENTIVOGLIO	HALL COLONNA	HALL DORIA
08:00 / 08:30					
08:30 / 10:00	Committee on Disaster Risk Management	Committee on Education in Engineering	Committee on Engineering and the Environment	Committee on Information and Communication	Committee on Engineering for Innovative Technologies
10:00 / 10:30	Break				
10:30 / 12:30	Committee on Disaster Risk Management	Committee on Education in Engineering	Committee on Engineering and the Environment	Committee on Information and Communication	Committee on Engineering for Innovative Technologies
12:30 / 13:00	Lunch				
13:00 / 14:30	Nominations Committee	Marketing Task Group	Committee on Engineering and the Environment	Awards Committee	STCs Performance Group

	TUESDAY 28 NOVEMBER 2017			WEDNESDAY 29 NOVEMBER 2017	
08:30 / 09:00	WFEO Registration				
	HALL LUDOVISI	HALL BENTIVOGLIO	HALL COLONNA	HALL COLONNA / DORIA	HALL BENTIVOGLIO
09:00 / 10:30			Executive Board Meeting		50th Anniversary Meeting
10:30 / 11:00	Break				
11:00 / 13:00		All STC Chairs Meeting	Executive Board Meeting	WEF/WFEO* Oral Session 6 (10:45 - 13:00)	50th Anniversary Meeting
13:00 / 14:00	Lunch				
14:00 / 15:30		All STC Chairs Meeting	WURC Committee		Future Events 2018, 2019, 2020, 2023
15:30 / 16:00	Break				
16:00 / 18:00	Young Engineers/ Future Leaders Workshop (15:30-18:30)		WURC Committee	WEF/WFEO* Oral Session 9 (15:30 - 18:00)	

*WFEO Attendees are invited to WEF Oral Sessions 6-9

	THURSDAY 30 NOVEMBER 2017	FRIDAY 1 DECEMBER 2017	SATURDAY 2 DECEMBER 2017
08:30 / 09:00	WFEO Registration		
	HALL ORSINI	HALL FARNESE / BAGLIONI	HALL FARNESE BAGLIONI
09:00 / 10:30	WFEO Executive Council	WFEO General Assembly	WFEO General Assembly
10:30 / 11:00	Break		
11:00 / 13:00	WFEO Executive Council	WFEO General Assembly	WFEO General Assembly
13:00 / 14:00	Lunch		
14:00 / 15:30	WFEO Executive Council	WFEO General Assembly	WFEO New Executive Board (Hall Borgia)
			WFEO New Executive Council (Hall Borgia)
15:30 / 16:00	Break		
16:00 / 18:00	WFEO Executive Council	WFEO General Assembly	
18:00 / 20:00	CEC Cocktail		
20:00 / 22:00		WFEO Dinner	

SUNDAY 26 NOVEMBER 2017

09:00 – 13:00 HALL TIZIANO
Young Engineers / Future Leaders Meeting

09:00 – 15:30 HALL LUDOVISI
WFEO CAC Anti-Corruption Workshops

09:00 – 13:00 HALL BENTIVOGLIO
Finance Committee

09:00 – 13:00 HALL COLONNA
Committee on Women in Engineering

09:00 – 13:00 HALL DORIA
IEA/International Education Committee

11:00 – 13:00 HALL MALATESTA
President's Advisors Meeting

14:00 – 18:00 HALL BENTIVOGLIO
Strategic Planning Committee

14:00 - 18:00 HALL COLONNA
Committee on Energy

14:00 – 18:00 HALL DORIA
Committee on Engineering Capacity Building

16:00 – 18:00 HALL LUDOVISI
Committee on Anti-Corruption Meeting

MONDAY 27 NOVEMBER 2017

-
- 08:30 – 12:30** HALL TIZIANO
Committee on Disaster Risk Management
- 08:30 – 12:30** HALL LUDOVISI
Committee on Education in Engineering
- 08:30 – 14:30** HALL BENTIVOGLIO
Committee on Engineering and the Environment
- 08:30 – 12:30** HALL COLONNA
Committee on Information and Communication
- 08:30 – 12:30** HALL DORIA
Committee on Engineering for Innovative Technologies
-
- 13:00 – 14:30** HALL TIZIANO
Nominations Committee
- 13:00 – 14:30** HALL LUDOVISI
Marketing Task Group
- 13:00 – 14:30** HALL COLONNA
Awards Committee
- 13:00 – 14:30** HALL DORIA
STCs Performance Group

TUESDAY 28 NOVEMBER 2017

09:00 – 13:00 HALL COLONNA
Executive Board Meeting

11:00 – 15:30 HALL BENTIVOGLIO
All STC Chairs Meeting

14:00 -18:00 HALL COLONNA
WURC Committee

15:30 – 18:30 HALL LUDOVISI
Young Engineers / Future Leaders Workshop

WEDNESDAY 29 NOVEMBER 2017

09:00 – 13:00 HALL BENTIVOGLIO
50th Anniversary Meeting

10:45 – 13:00 HALL COLONNA / DORIA
WEF / WFEO Oral Session 6

14:00 – 15:30 HALL BENTIVOGLIO
Future Events 2018, 2019, 2020, 2023

15:30 – 18:00 HALL COLONNA / DORIA
WEF / WFEO Oral Session 9

THURSDAY 30 NOVEMBER 2017

09:00 – 18:00 HALL ORSINI
WFEO Executive Council

FRIDAY 1 DECEMBER 2017

09:00 – 18.00 HALL FARNESE / BAGLIONI
General Assembly

SATURDAY 2 DECEMBER 2017

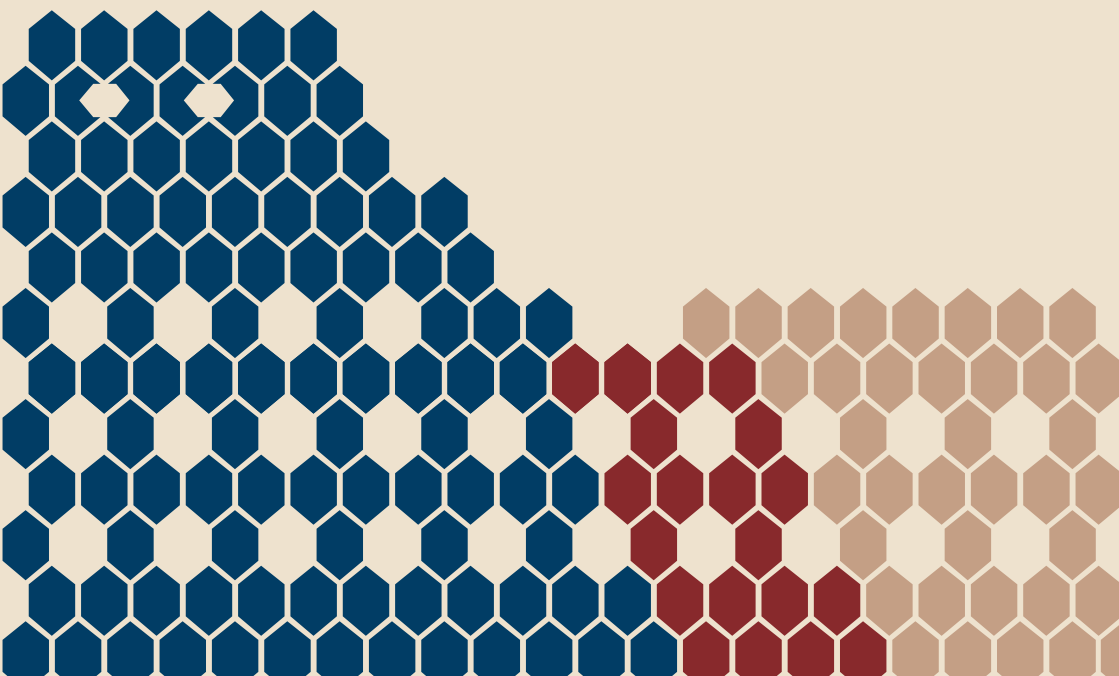
09:00 – 13:00 HALL FARNESE / BAGLIONI
General Assembly

14:00 -15:00 HALL BORGIA
WFEO New Executive Board

15:00 -16:00 HALL BORGIA
New Executive Council



WEF PROGRAMME



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MONDAY 27 NOVEMBER 2017

Camera dei Deputati, Aula dei Gruppi Parlamentari, Via di Campo Marzio 78, Rome

WEF Opening Ceremony

16:00	Welcome Greetings Benedetto Della Vedova, Under-Secretary of the Italian Ministry of Foreign Affairs and International Cooperation
16:30	Safeguarding Humankind's Heritage, the great challenge Philippe Pypaert, Head of Science Unit, UNESCO Regional Bureau for Science and Culture in Europe
16:45	WEF 2017 - Engineering for a better world Armando Zambrano, President Consiglio Nazionale degli Ingegneri Jorge Spitalnik, President World Federation of Engineering Organizations Marlene Kanga, President elect World Federation of Engineering Organizations
18:00	Welcome drink

Important notice:

- Since there will be metal detector security checks at the entrance, **participants are kindly requested to arrive at 15:15**
- Access to the Chamber of Deputies is permitted only to appropriately dressed visitors, **men are requested to wear jacket and tie**
- no mineral water or other liquids can be introduced in the venue.

Transportation from Sheraton Rome Hotel is available (departure at 14:30 - no return transfer). Tickets can be purchased at WEF2017 reception desk. As the venue is in the historic centre of Rome and the ceremony finishes around 18:30, participants will have the opportunity for a walk and free evening.

TUESDAY 28 NOVEMBER 2017

Sheraton Roma Hotel & Conference Centre, Viale del Pattinaggio 100, Rome

09:15 / 10:00	Registration
10:00	HALL VISCONTI
	<p>Rome welcomes WEF 2017 attendees Event organized by CNI</p> <p>Safeguarding Humankind's Heritage: challenges for a better future Gianni Massa, Vice President CNI Roberto Orvieto, Councillor CNI</p>
10:30	<p>Master Session Infrastructures and Networks in a sustainable perspective Event in collaboration with Italferr SpA</p> <p>Introduction Armando Zambrano, President CNI Gian Luca Galletti, Minister for the Environment, Land and Seas Carlo Carganico, CEO Italferr SpA</p>
11:00	<p>Designing sustainable infrastructures Antonello Martino, Head of Architecture, Environment and Territory, Italferr SpA</p>
11:30	Break
11:45	<p>Envision Protocol Lorenzo Orsenigo, General Director ICMQ SpA John M. Stanton, President and CEO Institute for sustainable Infrastructure (ISI)</p>
12:15	<p>Mobility and environment safeguarding: ideas and policies Maria Fernanda Stagno D'Alcontres, Ministry for the Environment, Land and Seas</p>
12:30	<p>Designing infrastructures with a global perspective Admir Nocaj, Director for Foreign Markets, Italferr SpA</p>
12:45	Question time
13:00 / 14:00	Lunch

TUESDAY 28 NOVEMBER 2017

Sheraton Roma Hotel & Conference Centre, Viale del Pattinaggio 100, Rome

HALL VISCONTI			
14:15	<p>Plenary Lecture: Green technologies in the preservation and renovation of historic buildings Keynote speaker: Conghong Liu, Tianjin University</p>		
14:45	<p>Plenary Lecture: Green engineering for a better environment Keynote speaker: Felice Arena, Mediterranean University Reggio Calabria</p>		
15:15	Break		
15:30	HALL FARNESE	HALL BAGLIONI	HALL BORGIA
	<p>Oral session 1 Preserving the environment: ideas and technical solutions</p> <p>Chairman: Giuseppe Rossi Accredia</p> <p>Speakers: Shindler L. Tan G. Romolo A. Losasso M. Cremonini P. Barbato E. Liu D. Weifner T. Tsvirko L. Salcedo Jarabo E. Martinoli C. Baldacci S.</p>	<p>Oral session 2 Urban space and building's preservation in a sustainable perspective</p> <p>Chairwoman: Conghong Liu Tianjin University</p> <p>Speakers: Spinosa A. Margarone M. Yamamoto K. Zhang W. Fazio T. Lalsa V. Petras D. De La Fuente C. Abate S. Ruiz Salinas M. T. Wu J. Perillo G. Capezzali M. Marino C.</p>	<p>Oral Session 3 Preventing climate change: engineering for sustainability</p> <p>Chairwoman: Nicoletta Antonias Italferr SpA</p> <p>Speakers: Lopez A. Makaranka T. Pirrera G. Koena T. Rocca U. V. Yao S. Antonini A Lorato N. Antonias N. Xu X. Pirrera G. Colucci B.</p>
18:30	WEF 2017 1st day closing		
20:00	WEF2017 Social dinner, Pinacoteca del Tesoriere, Rome (by invitation)		

HALL LUDOVISI	
15:30 / 18:30	<p>WFEO Young Engineers / Future Leaders Forum Chairwoman: Zainab S. Garashi</p>

WEDNESDAY 29 NOVEMBER 2017

Sheraton Roma Hotel & Conference Centre, Viale del Pattinaggio 100, Rome

09:00 / 09:30	Registration			
09:30	HALL VISCONTI			
	<p>Plenary Lecture: Safeguarding cultural heritage in the current understanding of earthquakes Keynote speaker: Massimo Mariani, Consiglio Nazionale degli Ingegneri, Counsellor for seismic and hydrogeological risk</p>			
10:00	<p>Plenary Lecture: Risk prevention and management: the great challenge Keynote speaker: Toshimitsu Komatsu, Kyushu University</p>			
10:30	Break			
10:45	HALL FARNESE	HALL BAGLIONI	HALL COLONNA/DORIA	HALL BORGIA
	<p>Oral session 4 Engineering and technologies for safeguarding and monitoring the cultural heritage Chairman: Fabrizio Vestroni Sapienza University Roma</p> <p>Speakers: Biasiotti A. Vestroni F. Solari L. Sforza G. Del Regno R. Barone F. Anelli A. Marra A. Deiana A. Molinari G.</p>	<p>Oral session 5 Risk prevention, hazard monitoring, seismic risk mitigation Chairman: Giovanni Cardinale Consiglio Nazionale degli Ingegneri</p> <p>Speakers: Bianchi F. Clemente P. Yoshimi M. Fregatti M. Mita L. Miceli G. Realini E. Vallone I. Cappelli A.</p>	<p>Oral session 6 Women in engineering: panel discussion Chairwoman: Valerie Ifueko WFEO</p> <p>Speakers: Sigamoney R. Li R. Lopez A. DelVecchio S. Ifueko V.</p>	<p>Oral Session 7 Smart technologies for an effective development Chairwoman: Stacey DelVecchio Caterpillar Inc.</p> <p>Speakers: Cella A. Charalambous S. Ladisa P. Unteergger D. Nicolai G. Guermont M. Garzia F. Mutyora M.</p>
13:00 / 14:00	Lunch			

WEDNESDAY 29 NOVEMBER 2017

Sheraton Roma Hotel & Conference Centre, Viale del Pattinaggio 100, Rome

	HALL VISCONTI			
14:15	Plenary Lecture: Information security: threats and opportunities in a safeguarding perspective Keynote speaker: Agostino Bruzzone, University of Genoa			
14:45	Plenary Lecture: Belt and Road Initiative A Global Game Changer in Sustainable Engineering Keynote speaker: Yee Cheong Lee, UNESCO International Science, Technology and Innovation for South-South Cooperation (ISTIC), President Academy of Engineering and Technology of the Developing World (AETDEW)			
15:15	Break			
	HALL FARNESE	HALL BAGLIONI	HALL COLONNA/DORIA	HALL BORGIA
15:30	Oral session 8 ICT and Information security for humankind's heritage Chairman: Roberto Orvieto Consiglio Nazionale degli Ingegneri Speakers: Rocco P. Praitano A. Zorzino G.G. Vallone I.	Oral session 5 Risk prevention, hazard monitoring, seismic risk mitigation Chairman: Stefano Bergagnin PASS Speakers: Herrera C. Cecchetti S. Agostinelli S.R. Diaz Perez L.D. Toyooka A. Bergagnin S. Facchinato F. Barletta G.	Oral session 9 Diversity and inclusion in engineering. Women and young professionals: a resource for present and future Chairwoman: Ania Lopez Consiglio Nazionale degli Ingegneri Speakers: Lee Y.C. Callea V. Horting K. Pearson Y. Freda P. Kahdem H. Koma N. Grossman N. P. Anena D.L. Mutala Kabeya R.	Oral Session 7 Smart technologies for an effective development Chairwoman: Stacey DelVecchio Caterpillar Inc. Speakers: DelVecchio S. Martinoli C. Rebola A. Loughlin T. Ncube S. Latino M.E.
18:00 / 18:30	WEF Closing Ceremony A. Zambrano, J. Spitalnik, M. Kanga			

MONDAY 27 NOVEMBER 2017

OPENING CEREMONY

Camera dei Deputati, Aula dei Gruppi Parlamentari
Via di Campo Marzio, 78 - Rome

16:00 WELCOME GREETINGS

Benedetto Della Vedova
Under-Secretary of the Italian Ministry of Foreign Affairs
and International Cooperation

16:30 SAFEGUARDING HUMANKIND'S HERITAGE, THE GREAT CHALLENGE

Philippe Pypaert
Head of Science Unit, UNESCO Regional Bureau for Science and Culture
in Europe

16:45 WEF2017 - ENGINEERING FOR A BETTER WORLD

Armando Zambrano, President Consiglio Nazionale degli Ingegneri
Jorge Spitalnik, President World Federation of Engineering Organizations
Marlene Kanga, President elected World Federation of Engineering Organizations

18:00 WELCOME DRINK

TUESDAY 28 NOVEMBER 2017

HALL VISCONTI

- 10:00** **ROME WELCOMES WEF ATTENDEES 2017**
 (event organised by CNI)
Safeguarding Humankind's Heritage: Challenges for a Better Future
 Gianni Massa, Vice President CNI
 Roberto Orvieto, Councillor CNI
- 10:30** **MASTER SESSION**
Infrastructures and Networks in a Sustainable Perspective
 (event in collaboration with Italferr SpA)
- INTRODUCTION**
 Armando Zambrano President CNI
 Gian Luca Galletti, Minister for the Environment, Land and Seas
 Carlo Carganico, CEO Italferr SpA
- 11:00** **DESIGNING SUSTAINABLE INFRASTRUCTURES**
 Antonello Martino, Head of Architecture, Environment and Territory,
 Italferr SpA
- 11:45** **ENVISION PROTOCOL**
 Lorenzo Orsenigo, General Director ICMQ SpA
 John M. Stanton, President and CEO Institute for Sustainable Infrastructure (ISI)
- 12:15** **MOBILITY AND ENVIRONMENT SAFEGUARDING: IDEAS AND POLICIES**
 Maria Fernanda Stagno D'Alcontres, Ministry for the Environment,
 Land and Seas
- 12:30** **DESIGNING INFRASTRUCTURES WITH A GLOBAL PERSPECTIVE**
 Admir Nocaj, Director for Foreign Markets, Italferr SpA
- 12:45** QUESTION TIME

TUESDAY 28 NOVEMBER 2017

HALL VISCONTI

14:15 Plenary Lecture
GREEN TECHNOLOGIES IN THE PRESERVATION AND RENOVATION OF HISTORIC BUILDINGS

Keynote speaker: Conghong Liu, Tianjin University

14:45 Plenary Lecture
GREEN ENGINEERING FOR A BETTER ENVIRONMENT

Keynote speaker: Felice Arena, Mediterranean University Reggio Calabria

15:30 HALL FARNESE
Oral Session 1
PRESERVING THE ENVIRONMENT: IDEAS AND TECHNICAL SOLUTIONS
Chairman: Giuseppe Rossi, Accredia

15:30 HALL BAGLIONI
Oral Session 2
URBAN SPACE AND BUILDING'S PRESERVATION IN A SUSTAINABLE PERSPECTIVE
Chairwoman: Conghong Liu, Tianjin University

15:30 HALL BORGIA
Oral Session 3
PREVENTING CLIMATE CHANGE: ENGINEERING FOR SUSTAINABILITY
Chairwoman: Nicoletta Antonias, Italferr SpA

15:30 HALL LUDOVISI
WFEO YOUNG ENGINEERS / FUTURE LEADERS FORUM
Chairwoman: Zainab S. Garashi

18:30 1st DAY CLOSING

WEDNESDAY 29 NOVEMBER 2017

HALL VISCONTI

09:30 **Plenary Lecture**
SAFEGUARDING CULTURAL HERITAGE IN THE CURRENT UNDERSTANDING OF HEARTQUAKES

Keynote speaker: **Massimo Mariani**, Consiglio Nazionale degli Ingegneri, Councillor for Seismic and Hydrogeological Risk

10:00 **Plenary Lecture**
RISK PREVENTION AND MANAGEMENT: THE GREAT CHALLENGE

Keynote speaker: **Toshimitsu Komatsu**, Kyushu University

10:45 HALL FARNESE
Oral Session 4
ENGINEERING AND TECHNOLOGIES FOR SAFEGUARDING AND MONITORING THE CULTURAL HERITAGE

Chairman: **Fabrizio Vestroni**, Sapienza University Rome

10:45 HALL BAGLIONI
Oral Session 5
RISK PREVENTION, HAZARD MONITORING, SEISMIC RISK MITIGATION

Chairman: **Giovanni Cardinale**, Consiglio Nazionale degli Ingegneri

10:45 HALL COLONNA-DORIA
Oral Session 6
WOMEN IN ENGINEERING: PANEL DISCUSSION

Chairwoman: **Valerie Ifueko**, WFEO

10:45 HALL BORGIA
Oral Session 7
SMART TECHNOLOGIES FOR AN EFFECTIVE DEVELOPMENT

Chairwoman: **Stacey DelVecchio**, Caterpillar Inc.

WEDNESDAY 29 NOVEMBER 2017

HALL VISCONTI

14:15 Plenary Lecture
INFORMATION SECURITY: THREATS AND OPPORTUNITIES
IN A SAFEGUARDING PERSPECTIVE
 Keynote speaker: Agostino Bruzzone, University of Genoa

14:45 Plenary Lecture
BELT AND ROAD INITIATIVE A GLOBAL GAME CHANGER IN SUSTAINABLE
ENGINEERING
 Keynote speaker: Yee Cheong Lee, UNESCO International Science, Technology and Innovation for South-South Cooperation (ISTIC), President, Academy of Engineering and Technology of the Developing World (AETDEW)

15:30 HALL FARNESE
Oral Session 8
ICT AND INFORMATION SECURITY FOR HUMANKIND'S HERITAGE
 Chairman: Roberto Orvieto, Consiglio Nazionale degli Ingegneri

15:30 HALL BAGLIONI
Oral Session 5
RISK PREVENTION, HAZARD MONITORING, SEISMIC RISK MITIGATION
 Chairman: Stefano Bergagnin, PASS

15:30 HALL COLONNA-DORIA
Oral Session 9
DIVERSITY AND INCLUSION IN ENGINEERING. WOMEN AND YOUNG
PROFESSIONALS: A RESOURCE FOR PRESENT AND FUTURE
 Chairwoman: Ania Lopez, Consiglio Nazionale degli Ingegneri

15:30 HALL BORGIA
Oral Session 7
SMART TECHNOLOGIES FOR AN EFFECTIVE DEVELOPMENT
 Chairwoman: Stacey DelVecchio, Caterpillar Inc.

18:00 WEF CLOSING CEREMONY
 Armando Zambrano, Jorge Spitalnik, Marlene Kanga

MAIN SPEAKERS

VISIT WEF2017 WEBSITE TO READ SPEAKERS BIOGRAPHIES

NICOLETTA ANTONIAS

Chairwoman

Oral Session: Preventing Climate Change: Engineering for Sustainability

FELICE ARENA

Keynote Speaker

Plenary Lecture: Green Engineering for a Better Environment

STEFANO BERGAGNINI

Chairman

Oral Session: Risk prevention, hazard monitoring, seismic risk mitigation

AGOSTINO BRUZZONE

Keynote Speaker

Plenary Lecture: Information security: threats and opportunities in a safeguarding perspective

GIOVANNI CARDINALE

Chairman

Oral Session: Risk prevention, hazard monitoring, seismic risk mitigation

CARLO CARGANICO

Master Session: Infrastructures and Networks in a sustainable perspective

STACEY DELVECCHIO

Chairwoman

Oral Session: Smart Technologies for an effective development

ZAINAB S. GARASHI

Chairwoman

WFEO Young Engineers / Future Leaders Forum

VALERIE IFUEKO

Chairwoman

Oral Session: Women in Engineering: panel discussion

MARLENE KANGA

Opening Session: WEF 2017

Engineering for a better world

TOSHIMITSU KOMATSU

Keynote Speaker

Plenary Lecture: Risk prevention and management: the great challenge

YEE CHEONG LEE

Keynote Speaker

Plenary Lecture: Belt and Road Initiative a Global Game Changer in Sustainable Engineering

CONGHONG LIU

Keynote Speaker

Plenary Lecture: Green technologies in the preservation and renovation of historic buildings

Chairwoman

Oral Session: Urban Space and Building's Preservation in a Sustainable Perspective

ANIA LOPEZ

Chairwoman

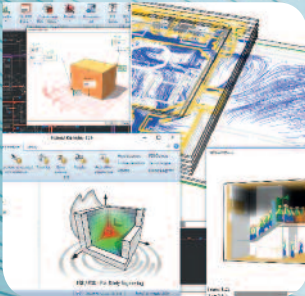
Oral Session: Diversity and inclusion in engineering. Women and young professionals: a resource for present and future

MASSIMO MARIANI

Keynote Speaker

Plenary Lecture: Safeguarding cultural heritage in the current understanding of earthquakes

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MAIN SPEAKERS

VISIT WEF2017 WEBSITE TO READ SPEAKERS BIOGRAPHIES

ANTONELLO MARTINO

Master Session: Designing Sustainable Infrastructures

GIANNI MASSA

Welcome Greetings: Safeguarding Humankind's Heritage: Challenges for a Better Future

ADMIR NOCAJ

Master Session: Designing Infrastructures with a global perspective

LORENZO ORSENIGO

Master Session: Envision Protocol

ROBERTO ORVIETO

Welcome Greetings: Safeguarding Humankind's Heritage: Challenges for a Better Future

Chairman

Oral Session: ICT and Information security for humankind's Heritage

PHILIPPE PYPAERT

Opening Session: Safeguarding Humankind's Heritage, the great challenge

GIUSEPPE ROSSI

Chairman

Oral Session: Preserving the environment: ideas and technical solutions

JORGE SPITALNIK

Opening Session: WEF 2017 Engineering for a better world

MARIA FERNANDA STAGNO D'ALCONTRES

Master Session: Mobility and environment safeguarding: ideas and policies

JOHN M. STANTON

Master Session: Envision Protocol

FABRIZIO VESTRONI

Chairman

Oral Session: Engineering and technologies for safeguarding and monitoring the cultural heritage

ARMANDO ZAMBRANO

Opening Session: WEF 2017 Engineering for a better world

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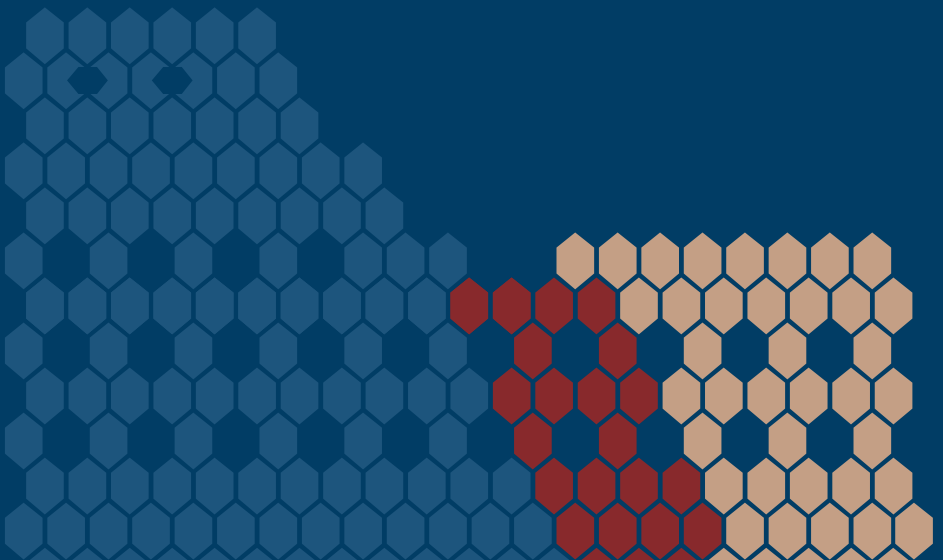


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WORKS SUPERVISION
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SAFETY
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WEF ORAL SESSIONS



TUESDAY 28 NOVEMBER 2017

15:30 – 18:30

HALL FARNESE ORAL SESSION 1

PRESERVING THE ENVIRONMENT: IDEAS AND TECHNICAL SOLUTIONS

Chairman: Giuseppe Rossi, Accredia, Italy

- 15:30 LOW-COST SENSING PLATFORM FOR AIR QUALITY MONITORING
Shindler L*, Ordine degli Ingegneri della Provincia di Roma ~ Rome ~ Italy
- 15:45 UTILIZATION OF LOW COST RF HARVESTER CIRCUIT IN HARNESSING
ELECTRICAL ENERGY FROM MULTIBAND RF SIGNALS
Tan G.*^[1], Bautista J.J.^[2], ^[1]Technological University of the Philippines ~
Quezon City ~ Philippines, ^[2]Globe Telecom Inc. ~ Taguig City ~ Philippines
- 16:00 ON NEW PORT INFRASTRUCTURES FOR WAVE ENERGY EXPLOITATION
Romolo A.*, Arena F., Mediterranean University ~ Reggio Calabria ~ Italy
- 16:15 PARTICLE BEAM ACCELERATORS FOR ENVIRONMENTAL APPLICATIONS
Losasso M.*, CERN ~ Geneve ~ Switzerland
- 16:30 CONSTRUCTABILITY & SUSTAINABILITY
Cremonini P.*, Fagioli SpA ~ S. Ilario d'Enza (Reggio Emilia) ~ Italy
- 16:45 LANDFILL FOOTPRINT
Barbato E.*, Studio Franchetti, Arzignano (Vicenza) ~ Italy
- 17:00 THE ETHICS OF BIOMASS ENERGY
Liu D.*, Yellow River Engineering Consulting Co.,Ltd. ~ Zhengzhou ~ China
- 17:15 NUMERICAL HYDROLOGICAL MODELLING OF THE BRENNER MASSIF FOR
THE BRENNER BASE TUNNEL
Weifner T.*, Bergmeister K., BBT SE ~ Innsbruck ~ Austria
- 17:30 TRANSFORMATION OF PEAT ORGANIC MATTER UNDER THE INFLUENCE
OF HYDRODYNAMIC CAVITATION
Tsvirko L.*, Institute for Nature Management, The National Academy of
Sciences of Belarus ~ Minsk ~ Belarus
- 17:45 VIRUNGA MAMA MAENDELEO (VIRUNGA, MOTHER OF DEVELOPMENT)
Salcedo Jarabo E.*, Luque J.A, Virunga National Park ~ Rutshuru ~ Congo
- 18:00 HEALTH ENGINEER: NEW PERSPECTIVES IN ENVIRONMENTAL SUSTAINABILITY
IN HEALTHCARE AND ON THE ROLE OF BIOMEDICAL ENGINEER
Martinoli C.*^[1], Gemma C.^[1], Vallone I.^[1], Lago P.^[1], Bottura S.^[2], Gadaleta M.^[2],
Bravar D.^[4], Leogrande L.^[3], Valsecchi A.^[5]
^[1]Fondazione IRCCS Policlinico San Matteo ~ Pavia ~ Italy, ^[2]Higea Srl ~ Pavia
~ Italy, ^[3]Italian Clinical Engineers Association ~ Rome ~ Italy, ^[4]TBS Group ~
Trieste ~ Italy, ^[5]Consiglio Nazionale degli Ingegneri (CNI) ~ Rome ~ Italy
- 18:15 A NEW WAY OF CONCEIVING AND DEALING WITH ENVIRONMENTAL CONTROL
OF PROCESS PLANTS BY REAL-TIME SOFT SENSORS AND MONITORING
Baldacci S.*, Mogorovich D., Gubinelli G., Bellassai D., ARPAT ~ Pisa ~ Italy

TUESDAY 28 NOVEMBER 2017

15:30 – 18:30

HALL BAGLIONI ORAL SESSION 2

URBAN SPACE AND BUILDING'S PRESERVATION IN A SUSTAINABLE PERSPECTIVE

Chairwoman: Conghong Liu, Tianjin University, China

- 15:30 A NEW ALGORITHM FOR THE CITY: THE USE OF TOPOLOGY AND TRANSPORT MODELING TO MAKE URBAN AREAS MORE EQUITABLE
Spinosa A.*, Freelancer consultant ~ Rome ~ Italy
- 15:45 A NOVEL LEAN APPROACH OF ENGINEERING CONVERGENCE IN THE HUMANKIND'S HERITAGE MANAGEMENT IN A SMART CITY CONTEXT: THE SAVONA MUNICIPALITY CASE HISTORY
Margarone M.*, Pastorino D., Ricci F., Ordine degli Ingegneri di Savona ~ Savona ~ Italy
- 16:00 AN EVALUATION OF MEASURES FOR THE REDUCTION OF CARBON DIOXIDE EMISSIONS FROM AUTOMOBILE TRAFFIC IN TOKYO
Yamamoto K.*, Shen K., University of Electro-Communications ~ Tokyo ~ Japan
- 16:15 BEIJING CAISHIKOU POWER TRANSFORMER SUBSTATION COMPLEX (STATE GRID ELECTRIC POWER SCIENCE AND TECHNOLOGY MUSEUM)
Zhang W.*, Wang W., Tsinghua University ~ Beijing ~ China
- 16:30 RAILWAY STATION DESIGN FROM LOCAL TRADITION TO INNOVATION IN A SUSTAINABLE PERSPECTIVE
Fazio T.*, Aluisi D., ITALFERR SpA ~ Rome ~ Italy
- 16:45 ELIMINATE TOILET PAPER
Lalsa V.*, Freelancer ~ New York ~ United States of America
- 17:00 INDOOR ENVIRONMENT AND ENERGY CONSERVATION BY HOUSING IN SLOVAKIA
Petras D.*, Slovak University of Technology in Bratislava ~ Bratislava ~ Slovakia
- 17:15 PERMEABLE INTERLOCKING CONCRETE PAVEMENT AS A SUSTAINABLE TOOL FOR PRESERVING THE ENVIRONMENT AND PREVENTING NATURAL DISASTERS
De La Fuente C.*^[1], Smith D.^[2], ^[1]City of Los Angeles ~ Los Angeles ~ United States of America, ^[2]Interlocking Concrete Pavement Institute ~ Chantilly ~ United States of America
- 17:30 PAES MUNICIPALITY OF SAN LUCIDO - WINNER AWARD CINEV 2016
Abate S.*, Studio Ing. Abate Santo ~ San Lucido (Cosenza)~ Italy
- 17:45 PLANNING OF A TRANSPORT NETWORK FOR THE PROMOTION OF A CULTURE OF SUSTAINABLE MOBILITY IN UNIVERSITY STUDENTS
Ruiz Salinas M.T.*, Ruiz Salinas M.C., Cabrera F., Pontificia Universidad Católica del Perú ~ Lima ~ Peru

TUESDAY 28 NOVEMBER 2017

15:30 – 18:30

HALL BAGLIONI **ORAL SESSION 2**

- 18:00 EV CAR-SHARING AND ITS EFFECTS ON URBAN ENVIRONMENT
Wu J.*, Hu K., Tsinghua University ~ Beijing ~ China
- 18:15 PLANTS IN NEAR ZERO ENERGY BUILDINGS
Perillo G.*, University of Naples Parthenope ~ Naples ~ Italy
- 18:30 AN INNOVATIVE APPROACH FOR ROBUST INTERNAL INSULATION OF BUILDINGS: THE RIBUILD PROJECT
Capezzali M.*, Lasvaux S., University of Applied Sciences of Western Switzerland (HES-SO) | HEIG-VD | IGT-LESBAT ~ Yverdon-les-Bains ~Switzerland
- 18:45 ZERO ENERGY BUILDINGS
Marino C.*^[1], Biundo G.^[2], ^[1]Studio tecnico Marino Clara ~ Marsala ~ Italy, ^[2]Studio tecnico Biundo Giovanni ~ Castelvetrano ~ Italy

TUESDAY 28 NOVEMBER 2017

15:30 – 18:30

HALL BORGIA ORAL SESSION 3

PREVENTING CLIMATE CHANGE: ENGINEERING FOR SUSTAINABILITY

Chairwoman: Nicoletta Antonias, ITALFERR SpA, Italy

- 15:30 ENGINEERING FOR CLIMATE CHANGE, THE CHALLENGE FOR THE USE OF NEW RENEWABLE ENERGY
Lopez A. *, Consiglio Nazionale degli Ingegneri ~ Rome ~ Italy
- 15:45 RATIONAL USE AND PROTECTION OF PEAT DEPOSITS OF THE REPUBLIC OF BELARUS
Makaranka T. *, Institute for Nature Management, The National Academy of Science of Belarus ~ Minsk ~ Belarus
- 16:00 TECHNOSOILS FOR THE PREVENTION OF DESERTIFICATION RISK
Pirrerà G. ^[1], Calvo R. ^[4], D'Asaro F. ^[2], Ferrara L.M. ^[3], Lo Nardo C. ^[5] ^[1]AIPIN (Associazione Italiana per l'Ingegneria Naturalistica) ~ Palermo ~ Italy, ^[2]University of Palermo ~ Palermo ~ Italy, ^[3]Freelancer ~ Palermo ~ Italy, ^[4]PhD student - University of Palermo ~ Palermo ~ Italy ~ ^[5]Student ~ University of Palermo ~ Palermo ~ Italy
- 16:15 WATER CRISIS CAUSING A DROUGHT IN THE SOCIO-ECONOMIC ENVIRONMENT OF SOUTH AFRICA
Koena T. *, South African Institution of Civil Engineering ~ Johannesburg ~ South Africa
- 16:30 SUGGESTION TO ROME CITY COUNCIL TO AVOID POLLUTION
Rocca U.V. *, NEW ~ Rome ~ Italy
- 16:45 CHINA'S CCUS PROGRESSES AND A NEW EVALUATION METHOD OF CO2 STORAGE CAPACITY IN COALBED RESERVOIRS
Yao S. *, The Research Institute of Petroleum Exploration and Development (RIPED) ~ Beijing ~ China
- 17:00 A LOW COST AUTOMATIC WEATHER STATION DEVELOPED AT SCHOOL, OPPORTUNITY FOR STUDENTS TO MEET THE JOB WORLD
Antonini A. ^[1], Bini L. ^[2], Coppola M. ^[3], Florida G. ^[4], Alessandro P. ^[3], Rafanelli G. ^[3], Cantini I. ^[3], ^[1]Lamma Consortium ~ Sesto Fiorentino - Florence ~ Italy, ^[2]Azienda Agricola La Capannaccia ~ Scandicci - Florence ~ Italy, ^[3]Istituto Cellini Tornabuoni ~ Florence ~ Italy, ^[4]Parsec Srl ~ Sesto Fiorentino - Florence ~ Italy
- 17:15 EXPLORING ECONOMICAL GROUNDWATER RESOURCES IN KWA-ZULU NATAL MIDLANDS, SOUTH AFRICA
Lorato N. *, South African Institute of Civil Engineering ~ Johannesburg ~ South Africa

TUESDAY 28 NOVEMBER 2017

15:30 – 18:30

HALL BORGIA ORAL SESSION 3

- 17:30 DESIGNING SUSTAINABLE RAILWAYS INFRASTRUCTURES ENVISION PROTOCOL AND THE CARBON FOOTPRINT. ENVIRONMENTAL SUSTAINABILITY OF RAILWAY INFRASTRUCTURES
 Antonias N.*, Martino A., ITALFERR SPA ~ Rome ~ Italy
- 17:45 STUDY ON AUTOMATION TRAIN OPERATION APPLIED TO HIGH SPEED RAILWAY
 Xu X.*, Song Z., Li Y., Yi H., Wang Y., Xiaoning Xu ~ Beijing ~ China
- 18:00 INDUSTRIAL ECOLOGY WITH PHYTOREMEDIATION BY NATIVE SPECIES
 Pirrera G.*^[1], Pluchino A.^[2], Ferrara L.M.^[3], Latteo V.^[2], ^[3]AIPIN
 [Associazione Italiana per l'Ingegneria Naturalistica] ~ Palermo ~ Italy,
^[2]Engineer ~ Palermo ~ Italy, ^[3]Freelancer ~ Palermo ~ Italy
- 18:15 IMPACT OF CLIMATIC CHANGE IN TRANSPORTATION CIVIL INFRASTRUCTURE SYSTEMS ADJACENT TO COASTS IN CARIBBEAN REGION
 Colucci B.*^[2], Ismael P.T.^[1], Lopez R.^[1], Didier V.^[1], ^[1]UPRM ~ Mayaguez ~ Puerto Rico,
^[2]UPRM & UPADI ~ Mayaguez ~ Puerto Rico

WEDNESDAY 29 NOVEMBER 2017

10:45 – 13:00

HALL FARNESE ORAL SESSION 4

ENGINEERING AND TECHNOLOGIES FOR SAFEGUARDING AND MONITORING THE CULTURAL HERITAGE

Chairman: Fabrizio Vestroni, Sapienza University of Roma, Italy

- 10:45 ADVANCED TECHNOLOGIES FOR PROTECTION OF ARCHAEOLOGICAL HERITAGE
Biasiotti A.* , UNESCO ~ Modena ~ Italy
- 11:00 ENGINEERING ANALYSIS AND MONITORING TO PRESERVE THE COLOSSEUM
Vestroni F.* , Pau A., Sapienza University of Roma ~ Rome ~ Italy
- 11:15 ENGINEERING FOR THE PROTECTION OF FLORENCE FROM FLOODING: THE PROJECT FIRENZE 2016
Solari L.* , Caporali E., Castelli F., Federici G.V., Francalanci S., Paris E., University of Firenze ~ Florence ~ Italy
- 11:30 IN SITU TESTS AND EXPERIMENTAL DYNAMIC CHARACTERIZATION OF THE SANCTUARY OF MADONNA DELLA LIBERA IN PRATOLA PELIGNA (AQ)
Sforza G.* , Lepori L., ESSEBI Srl ~ Rome ~ Italy
- 11:45 SAFETY AND CONSERVATION IN THE HISTORICAL AND ARCHITECTURAL QUALITY BUILDING SITES. STUDY CASES
Del Regno R.* , Cucco P., University of Salerno ~ Fisciano (Salerno) ~ Italy
- 12:00 THE UNISA MONOLITHIC FOLDED PENDULUM: AN INERTIAL COMPACT SENSOR FOR LOW FREQUENCY HIGH SENSITIVITY LINEAR AND ANGULAR MONITORING OF THE HISTORICAL MONUMENTAL HERITAGE
Barone F.*^[1], Giordano G.^[2], ^[1]University of Salerno ~ Baronissi (Salerno) ~ Italy, ^[2]University of Salerno ~ Fisciano (Salerno) ~ Italy
- 12:15 UAV'S (SO CALLED "DRONE") EMPLOYMENT IN SURVEYING: A FAST AND AFFORDABLE WAY TO ARCHIVE OUR HERITAGE
Anelli A.*^[1], Grimaldi P.^[2], ^[1]Aerial Drone Ostro ~ Andria ~ Italy, ^[2]Politecnico di Bari ~ Bari ~ Italy
- 12:30 ANALYSIS OF THE RECONSTRUCTION PROCESS OF THE HISTORICAL CENTRES HIT BY THE 2009 ABRUZZI EARTHQUAKE: INTERVENTION COSTS AND CONSIDERATIONS ON THE EFFECTIVENESS OF THE GRANT INCREASES FOR HISTORIC TRADITIONAL BUILDINGS
Marra A.*^[2], Fico R.^[1], Gualtieri R.^[1], Pecci D.^[1], Mannella A.^[2], Sabino A.^[2], ^[1]Special Office for Reconstruction of Crater Municipalities ~ Fossa (L'Aquila) ~ Italy, ^[2]Italian National Research Council, ITC ~ L'Aquila ~ Italy

WEDNESDAY 29 NOVEMBER 2017

10:45 – 13:00

HALL FARNESE **ORAL SESSION 4**

- 12:45 SMART TECHNOLOGIES AND WORKFLOWS FOR ENVIRONMENTAL AND CULTURAL HERITAGE: INTEGRATING BIM AND 3D GIS INTO A 4D WEB GLOBE
Deiana A. *, GeolInfoLab ~ Olbia ~ Italy
- 13:00 TEMPORARY RELIGIOUS BUILDINGS TO PRESERVE HUMANKIND'S HERITAGE FROM NATURAL AND MAN-MADE DISASTERS
Molinari G. *, Forte P.L., ^[1]Molpass Srl ~ San Giovanni in Persiceto (Bologna) ~ Italy

WEDNESDAY 29 NOVEMBER 2017

10:45 – 13:00

HALL BAGLIONI ORAL SESSION 5

RISK PREVENTION, HAZARD MONITORING, SEISMIC RISK MITIGATION

Chairman: Giovanni Cardinale, CNI, Italy

- 10:45 ADVANCED STRUCTURAL MODELLING FOR RISK ASSESSMENT OF BUILDING PORTFOLIOS SUBJECTED TO INDUCED SEISMICITY
Bianchi F.*, Nascimbene R., Pinho R., Mosayk Srl ~ Pavia ~ Italy
- 11:00 SAFEGUARDING HUMANKIND'S HERITAGE AGAINST EARTHQUAKES: CIVIL, INDUSTRIAL AND CULTURAL HERITAGE STRUCTURES
Clemente P.*, Bongiovanni G., Buffarini G., Saitta F., ENEA ~ Rome ~ Italy
- 11:15 ACTIVE FAULT RESEARCH IN JAPAN FOR DISASTER MITIGATION
Yoshimi M.*, Research Institute of Earthquake and Volcano Geology ~ Tsukuba ~ Japan
- 11:30 THE "THEORY OF CATASTROPHES" AS HEURISTIC-HERMENEUTIC INNOVATIVE PLATFORM FOR THE ORGANIZATION AND MANAGEMENT OF CHANGE AND RISK IN COMPLEX PROJECTS FOR SAFEGUARDING HUMANKIND'S HERITAGE
Fregatti M.*, Ordine degli Ingegneri della Provincia di Rovigo ~ Rovigo ~ Italy
- 11:45 THE WEB-BASED FLOOD WARNING SYSTEM EXPLOITING THE JGRASS-NEWAGE
Mita L.*^[1], Bancheri M.^[3], Dal Sasso S.F.^[1], Davenia G.^[2], Glisci C.^[2], Grasso S.^[3], Laguardia N.^[3], Lanorte V.^[2], Fiorentino M.^[1], Manfreda S.^[1]
^[1]University of Basilicata ~ Potenza ~ Italy, ^[2]Civil Protection Basilicata Region ~ Potenza ~ Italy, ^[3]Interuniversity Consortium for Hydrology (CINID) ~ Potenza ~ Italy
- 12:00 A GEOMATIC MULTI CRITERIA APPROACH TO ASSESS LANDSLIDE HAZARD AND SUPPORT REMEDIAL WORKS PLANNING ALONG RAILWAY LINES
Miceli G.*, ETS Srl ~ Rome ~ Italy
- 12:15 LOW-COST GNSS TECHNIQUES FOR CONTINUOUS MONITORING OF STRUCTURES AND LAND MOVEMENTS
Realini E.*^[2], Rambaldi A.^[1], Caldera S.^[1], ^[1]Softeco ~ Genova ~ Italy, ^[2]Proteco Group ~ Como ~ Italy
- 12:30 DISASTER PREPAREDNESS: THE CENTRAL ROLE OF CLINICAL ENGINEERING
Vallone I.*^[1], Gemma C.^[1], Martinoli C.^[1], Lago P.^[1], Bottura S.^[2], David Y.^[3], Allegrini A.^[4], ^[1]Fondazione IRCCS Policlinico San Matteo ~ Pavia ~ Italy, ^[2]Higea Srl ~ Pavia ~ Italy, ^[3]IFMBE Board Member ~ Houston ~ United States of America, ^[4]Ordine degli Ingegneri della Provincia di Pavia ~ Pavia ~ Italy
- 12:45 A FIRST STEP TO GETTING TO HYDRAULIC RISK ASSESSMENT METHODOLOGY FOR RAILWAY INFRASTRUCTURES
Cappelli A.*, Cabas F., Tortora A., Villani M., Italferr S.p.A. ~ Rome ~ Italy

WEDNESDAY 29 NOVEMBER 2017

15:30 – 18:00

HALL BAGLIONI ORAL SESSION 5

RISK PREVENTION, HAZARD MONITORING, SEISMIC RISK MITIGATION

Chairman: Stefano Bergagnin, PASS. Italy

- 15:30 MEASUREMENT OF ORGANIZATIONAL RESILIENCE FOR DISASTER RISK REDUCTION: A CASE STUDY
Herrera C.*, Negrete L., Echeverri H., Muñoz G., Díaz L., Universidad de Córdoba ~ Córdoba ~ Colombia
- 15:45 LEARNING AND PROTECTING FROM NATURAL IONIZING RADIATIONS
Cecchetti S.*, Consultant ~ Rome ~ Italy
- 16:00 HOW FROM ENGINEERING WE PRESERVE THE CULTURAL HERITAGE OF HUMANITY
Agostinelli S.R.*, Junta Central de los Consejos Profesionales de Agrimensura, Arquitectura e Ingeniería ~ Buenos Aires ~ Argentina
- 16:15 LEARNING FROM THE SENÚ PROPOSAL TO DRAWN ON INDIGENOUS ENGINEERING KNOWLEDGE FOR FLOOD AND DROUGHT MANAGEMENT IN CORDOBA, COLOMBIA
Díaz Perez L.D.*, Universidad de Córdoba ~ Córdoba ~ Colombia
- 16:30 SEISMIC DESIGN OF RAILWAY STRUCTURES
Toyooka A.*, Railway Technical Research Institute ~ Tokyo ~ Japan
- 16:45 SAFETY AND SECURITY MANAGEMENT OF HISTORICAL BUILDINGS AND TEMPORARY EVENTS IN HISTORICAL CITIES
Bergagnin S.*^[1], Fede G.^[2], Sassone R.^[3], Toneguzzo A.^[4], ^[1]PASS Srl ~ Ferrara ~ Italy, ^[2]CNI, ^[3]INGEST Srl, ^[4]EURISP ITALIA Srl
- 17:00 USE OF FIXED BY VIBRATION STEEL RODS AND GRIDS FOR ENVIRONMENT'S SAFEGUARDING
Facchinato F.*, Studio Tecnico ing. Facchinato Francesco ~ Arsiè (Belluno) ~ Italy
- 17:15 BLU CONSULTING MODEL APPLIED TO BUSINESS CONTINUITY MANAGEMENT (BCM-2-BCM)
Barletta G.*, Masciarelli M., Scrocca C., Ordine degli Ingegneri di Roma ~ Rome ~ Italy

WEDNESDAY 29 NOVEMBER 2017

10:45 – 13:00

HALL COLONNA-DORIA **ORAL SESSION 6**

WOMEN IN ENGINEERING: PANEL DISCUSSION

Chairwoman: Valerie Ifueko, WFEO, Nigeria

- 10:45 UNESCO'S ACTIVITIES ON WOMEN IN STEM
Sigamoney R.*, UNESCO
- 11:00 GENDER ISSUES IN CHINA
Li R.*, WFEO ~ China
- 11:15 INGENIO AL FEMMINILE. GENDER ISSUES IN EUROPE
Lopez A.*, CNI ~ Rome ~ Italy
- 11:30 GENDER ISSUES IN AMERICA
Del Vecchio S.*, United States of America
- 11:45 CWiE PROGRAMS & PROJECT
Ifueko V.*, WFEO ~ Nigeria

WEDNESDAY 29 NOVEMBER 2017

10:45 – 18:00

HALL BORGIA ORAL SESSION 7

SMART TECHNOLOGIES FOR AN EFFECTIVE DEVELOPMENT

Chairwoman: Stacey DelVecchio, Caterpillar Inc., USA

- 10:45 CELLULAR ALGORITHMS A NEXT-GENERATION MCAE SOFTWARE AND ITS APPLICATIONS
 Cella A.*, Ordine degli Ingegneri della Provincia di Genova ~ Genoa ~ Italy
- 11:00 HP'S PRODUCTS AND SERVICES AS A CIRCULAR ECONOMY ENABLER
 Charalambous S.*, Lahn B., HP ~ Milan ~ Italy
- 11:15 INDUSTRIAL MACHINES AND SUPPORT EQUIPMENT: CRITERIA FOR SUSTAINABLE PRODUCTION
 Ladisa P.*, Ordine degli Ingegneri della Provincia di Roma ~ Rome ~ Italy
- 11:30 MACRO SCALE NUMERICAL MODELLING FOR THE WORLD'S LONGEST TUNNEL
 Unteregger D.*, Weifner T., Bergmeister K., BBT SE ~ Innsbruck ~ Austria
- 11:45 NEW TECHNOLOGICAL AND SERVICE PROSPECTS FOR THE SPACE
 Nicolai G.*, De Franco G., Ordine Ingegneri della Provincia di Roma ~ Rome ~ Italy
- 12:00 PHARES A HIGH-TECH DIALOGUE WITH OUR GLOBAL HERITAGE
 Guermont M.*, MILENE GUERMONT ~ Paris ~ France
- 12:15 THE INTERNET OF EVERYTHING SYSTEM FOR THE PAPAL BASILICA AND SACRED CONVENT OF SAINT FRANCIS IN ASSISI, ITALY
 Garzia F.*^[1], Gambetti M.^[2], Baiocchi V.^[1], Borghini F.^[1], Ciarlariello D.^[2], Chakaveh S.^[4], Costantino D.^[5], Culla A.^[1], Faundez Zanuy M.^[12], Ferrer M.A.^[6], Fusetti S.^[2], Kodl J.^[7], Livatino S.^[9], Lombardi M.^[11], Marsella S.^[8], Peng J.^[13], Ramalingam S.^[9], Ramasamy M.^[10], Sacerdoti S.^[2], Sdringola A.^[2], Smejkal V.^[7], Thirupati D.^[11], Vargas Bonilla F.J.^[3]
^[1]Sapienza University of Roma ~ Rome ~ Italy, ^[2]General Custody of Sacred Convent of Saint Francis in Assisi ~ Minor Conventual Friars ~ Assisi ~ Italy, ^[3]School of Engineering, SISTEMIC, Universidad de Antioquia ~ Medellin ~ Colombia, ^[4]University of Southampton ~ Southampton ~ United Kingdom, ^[5]DICATECh, Politecnico di Bari ~ Bari ~ Italy, ^[6]Universidad de Las Palmas de Gran Canaria ~ Las Palmas de Gran Canaria ~ Spain, ^[7]Moravian University College Olomouc ~ Olomouc ~ Czech Republic, ^[8]National Corp of Fire Brigades ~ Rome ~ Italy, ^[9]University of Hertfordshire ~ Hatfield ~ United Kingdom, ^[10]Netcon Technologies India Private Limited ~ Coimbatore ~ India, ^[11]Bharathiar University ~ Coimbatore ~ India, ^[12]ESUP Tecnocampus- Pompeu Fabra University ~ Matarò ~ (Barcelona)- Spain, ^[13]University of Bedfordshire ~ Luton ~ United Kingdom

WEDNESDAY 29 NOVEMBER 2017

10:45 – 18:00

HALL BORGIA **ORAL SESSION 7**

- 12:30 **INTELLIGENT TRANSPORTATION SYSTEMS IN SOUTH AFRICA: AN AFRICAN PERSPECTIVE ON USE OF TECHNOLOGY AND INNOVATION TO SAFEGUARD ENGINEERING HERITAGE**
Mutyora M.*, South African Institution of Civil Engineering ~ Pietermaritzburg ~ South Africa
- 15:30 **THINK BIG...START SMALL...ACT FAST: DEPLOYING ADDITIVE MANUFACTURING IN A FORTUNE 50 COMPANY**
DelVecchio S.*, American Association of Engineering Societies ~ New York ~ United States of America
- 15:45 **MACHINE PERFUSION: NEW DEVICES AND HUMAN RESOURCES TO IMPROVE TRANSPLANTATION**
Martinoli C.*^[1], Gemma C.^[1], Vallone I.^[1], Lago P.^[1], Bottura S.^[2], Signorini M.G.^[3], ^[1]Fondazione IRCCS Policlinico San Matteo ~ Pavia ~ Italy, ^[2]Higea Srl ~ Pavia ~ Italy, ^[3]Politecnico di Milano ~ Milan ~ Italy
- 16:00 **BUILDING NEW TECHNOLOGICAL CELL FACTORIES: THE ROLE OF CLINICAL ENGINEERS AS PROJECT MANAGERS**
Rebola A.*, Ordine degli Ingegneri della Provincia di Torino ~ Turin ~ Italy
- 16:15 **THE VISIONARY FOCUS FOR TECHNOLOGY DEVELOPMENT**
Loughlin T.*, AAES/ASME ~ New York ~ United States of America
- 16:30 **CASE STUDY: THE INVESTIGATION OF THE FEASIBILITY OF INCORPORATING AUGMENTED REALITY AND INFORMATION TECHNOLOGY SYSTEMS TO ASSIST WITH THE TRAINING OF COMMUNITIES, EDUCATORS AND THE YOUTH**
Ncube S.S.*, Pather B., SAICE JHB ~ Midrand ~ South Africa
- 16:45 **TECHNOLOGY SYSTEM FOR AQUACULTURE SUSTAINABILITY AND FISH TRACEABILITY**
Latino M.E.*^[3], Zizzari A.^[1], Corallo A.^[1], Menegoli M.^[2], Cataldo M.^[3]
^[1]University of Salento ~ Lecce ~ Italy, ^[2]Naica SC ~ Lecce ~ Italy, ^[3]Apphia Srl ~ Lecce ~ Italy

WEDNESDAY 29 NOVEMBER 2017

15:30 – 18:00

HALL BAGLIONI ORAL SESSION 8

ICT AND INFORMATION SECURITY FOR HUMANKIND'S HERITAGE

Chairman: Roberto Orvieto, CNI, Italy

- 15:30 CYBER SECURITY FRAMEWORK FOR HUMANKIND'S HERITAGE
Rocco P.*^[1], Dominici D.^[2], Taballione A.^[3], Rosciano E.^[3], ^[1]Ordine degli Ingegneri della Provincia di Roma ~ Rome ~ Italy, ^[2]University of L'Aquila ~ L'Aquila ~ Italy, ^[3]Gitais S.R.L ~ Rome ~ Italy
- 16:00 HOW TO PROTECT THE COMMON HERITAGE SITES WITH LIMITED IMPACT IN THE SURVEILLANCE? A DYNAMIC AND NOT INVASIVE SURVEILLANCE SYSTEM THROUGH THE USE OF DRONES AND OTHER TOOLS FROM MILITARY KNOWLEDGE
Praitano A.*, Zorzino G.G., Ordine degli Ingegneri della Provincia di Roma ~ Rome ~ Italy
- 16:15 HYBRID CYBER THREAT TO HUMANITY'S CULTURAL HERITAGE: RISKS AND OPPORTUNITIES
Zorzino G.G.*^[1], Praitano A.^[1], Pirrò M.^[2], ^[1]Ordine degli Ingegneri della Provincia di Roma ~ Roma ~ Italy, ^[2]Ordine degli Ingegneri Provincia di Napoli ~ Naples~ Italy
- 16:30 ICT SYSTEMS: THE KEY FOR IMPROVEMENT IN HEALTHCARE
Vallone I.*^[1], Martinoli C.^[1], Gemma C.^[1], Lago P.^[1], Bottura S.^[2], Buizza A.^[3], ^[1]Fondazione IRCCS Policlinico San Matteo ~ Pavia ~ Italy, ^[2]Higea Srl ~ Pavia ~ Italy, ^[3]Dipartimento di Ingegneria Industriale e dell'Informazione, University of Pavia ~ Pavia ~ Italy

WEDNESDAY 29 NOVEMBER 2017

15:30 – 18:00

HALL COLONNA-DORIA **ORAL SESSION 9**

DIVERSITY AND INCLUSION IN ENGINEERING. WOMEN AND YOUNG PROFESSIONALS: A RESOURCE FOR PRESENT AND FUTURE

Chairwoman: Ania Lopez, CNI, Italy

- 15:30 ACHIEVING SUSTAINABLE DEVELOPMENT GOAL NO. 5 ON GENDER EQUALITY IS THE RESPONSIBILITY OF HUMANKIND
Lee Y.C.*, UNESCO International Science Technology and Innovation for South Cooperation (ISTIC) ~ Malaysia
- 15:45 COACH-ING (COACHING-INGEGNERIA) COACHING AND ENGINEERING INTEGRATION
Callea V.*, Santini E., Sapienza University of Roma ~ Rome ~ Italy
- 16:00 MEN AS DIVERSITY PARTNERS: BEING A CHAMPION OF WOMEN IN ENGINEERING
Horting K.*, DelVecchio S., Society of Women Engineers ~ Chicago ~ United States of America
- 16:15 SUSTAINABILITY AND INCLUSION: A PERSPECTIVE ON DIVERSIFYING ENGINEERING EDUCATION
Pearson Y.*^[1], Mattingly S.^[2], Haselbach L.^[3], ^[1]Rice University ~ Houston ~ United States of America, ^[2]University of Texas at Arlington ~ Arlington ~ United States of America, ^[3]Lamar University ~ Beaumont ~ United States of America
- 16:30 BIOMEDICAL ENGINEERS: THE INCREASING ROLE OF WOMEN AND YOUNG PEOPLE AS A RESOURCE FOR HUMAN HEALTH
Freda P.*^[4], Bottura S.^[1], Martinoli C.^[2], Gemma C.^[2], Lago P.^[2], Vallone I.^[2], Velazquez Berumen A.^[3], ^[1]Higea SpA ~ Pavia ~ Italy, ^[2]Fondazione IRCCS Policlinico San Matteo ~ Pavia ~ Italy, ^[3]World Health Organization ~ Geneva ~ Switzerland, ^[4]Azienda Ospedaliero-Universitaria Città della Salute e della Scienza di Torino ~ Turin ~ Italy
- 16:45 A MODEL FOR DEVELOPING THE ENTREPRENEURIAL CAPACITY OF YOUNG ENGINEERS AND TECHNOLOGISTS FROM WAR AFFECTED REGIONS - A CASE STUDY ON KURDISTAN AND IRAQ
Kadhem H.*^[3], Zandi R.^[1], Yasser A.^[4], Mustafa J.^[2], ^[1]Kurdistan Society of Engineers ~ Erbil ~ Iraq, ^[2]Modern Education for Kurdistan ~ Kurdistan ~ Iraq, ^[3]Al-Kindi Society of Engineers ~ London ~ United Kingdom, ^[4]Rekreo Labs ~ Jönköping ~ Sweden
- 17:00 YOUNG ENGINEERS: SELF PREPARATION FOR THE INDUSTRY WHILST ON CAMPUS
Koma N.*, Anena D.L., University of Kwa-Zulu Natal ~ Durban ~ South Africa

WEDNESDAY 29 NOVEMBER 2017

15:30 – 18:00

HALL COLONNA-DORIA **ORAL SESSION 9**

- 17:15 WOMEN IN ENGINEERING HAVE A UNIQUE STORY TO TELL. PRESERVING THE HISTORY OF ALL WOMEN IN ENGINEERING, IN THEIR OWN VOICE, BENEFITS THE PROFESSION; AND WILL INSPIRE FUTURE GENERATIONS OF YOUNG WOMEN WHO ARE INCLINED TO PURSUE ENGINEERING AS A PROFESSION
Grossman N.P.*, NPG – Engineering – United States of America
- 17:30 HOW CAN YOUNG ENGINEERS SAFEGUARD HUMANKIND’S HERITAGE? – AN AFRICAN CONTEXT
Akena D.L.11*, University of KwaZulu – Natal – Durban – South Africa
- 17:45 WOMEN ENGINEERING: EXPERIMENTAL CONTRIBUTION IN THE WASTE PROCESSING SYSTEM AND ITS APPLICATIONS IN COOKING
"CASE STUDY OF CLEAN AND ECOLOGICAL SUB-SAHARAN AFRICA (DRC)
Mutala Kabeya R. *, Civil Engineer in Environment Country: DR – Congo

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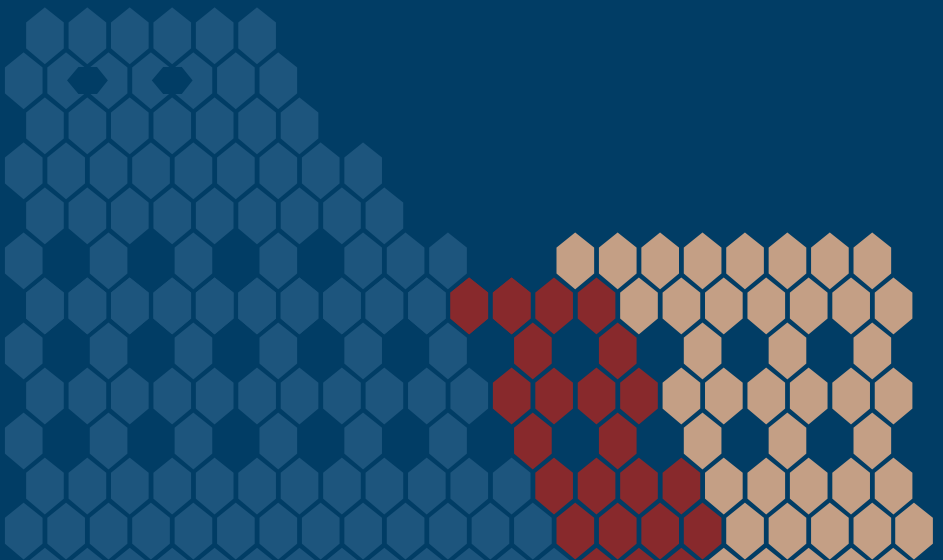
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WEF SOCIAL DINNER

TUESDAY 28 NOVEMBER – HRS 20:00

Pinacoteca del Tesoriere

Piazza San Luigi dei Francesi, 37 - Rome

Nested in between the Pantheon and the famous Piazza Navona in Rome, the palace, belonging to the Patrizi family houses a collection of important frescoes and paintings which includes masterpieces of Vasari, Pietro da Cortona, Guercino and Albani. The dinner offers the opportunity to visit the property of one of the patrician families still living in Rome.

Bus transfer from Hotel Sheraton Roma and return to the hotel at the end of the dinner

WFEO DINNER

FRIDAY 1 DECEMBER – HRS 20:00

Sheraton Roma Hotel

It will be a great opportunity to taste Mediterranean food, and share this experience with WFEO professionals coming from all over the world.

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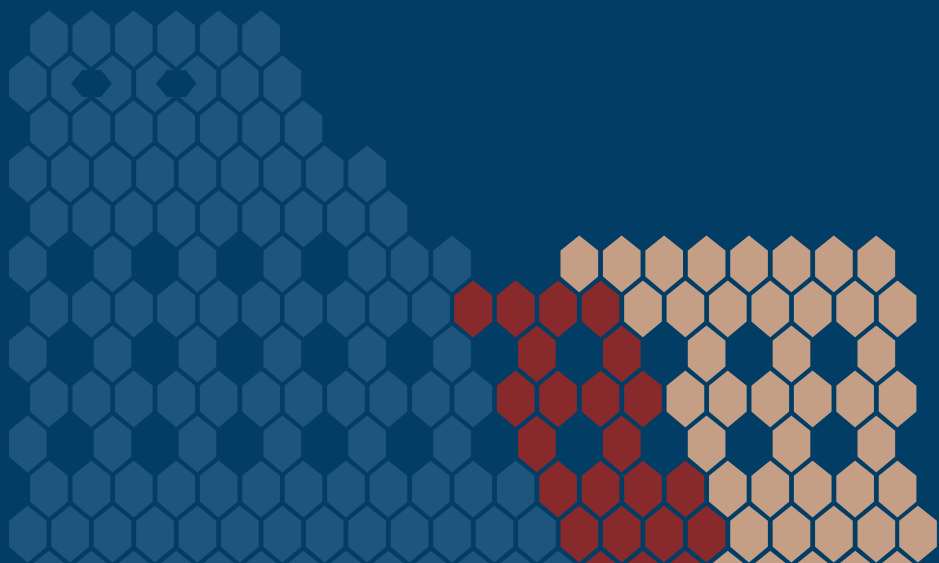


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GENERAL INFORMATION



GENERAL INFORMATION

Official Language

Official language of WEF2017 is **English**.

Simultaneous interpretation (from/into Italian) will be provided for WEF Opening Ceremony at the Chamber of Deputies, master sessions of Tue 28 November, all plenary lectures and WEF Closing session (Wed 29 November). Simultaneous interpretation will not be available for Oral Sessions.

Badges

Badges must be worn at all times. Access to the meeting rooms is allowed only to participants wearing their badges.

WEF delegates **blue**

WEF students **beige**

WFEO attendees **green**

Fondazione CNI **purple**

Daily Pass **light blue**

Accompanying Persons **orange**

Proceedings

- Abstracts presented will be published in a special issue of the magazine "L'Ingegnere Italiano", in December 2017.
- Full papers or copy of the slides used as support to the presentation will be uploaded on the website of Consiglio Nazionale degli Ingegneri, after the end of the meeting.

CFP - Italian delegates

Italian delegates will be entitled to receive a total of 9 credits split as follows:

TUE November 28 (morning) **3 credits**

TUE November 28 (afternoon) **2 credits**

WED November 29 (morning) **2 credits**

WED November 29 (afternoon) **2 credits**

Delegates will be requested to sign the attendance sheet upon arrival at Sheraton Roma Hotel and before leaving the venue on both Tuesday 28 and Wednesday 29.

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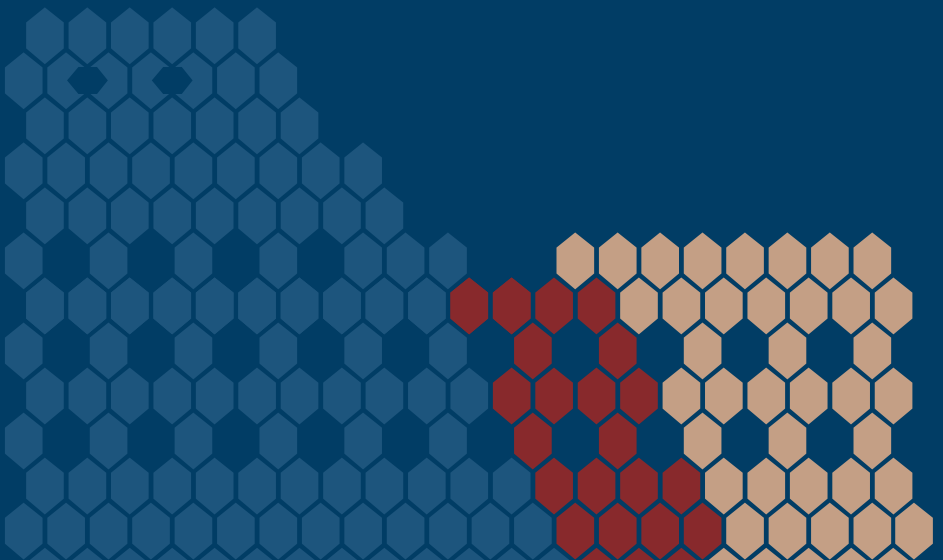
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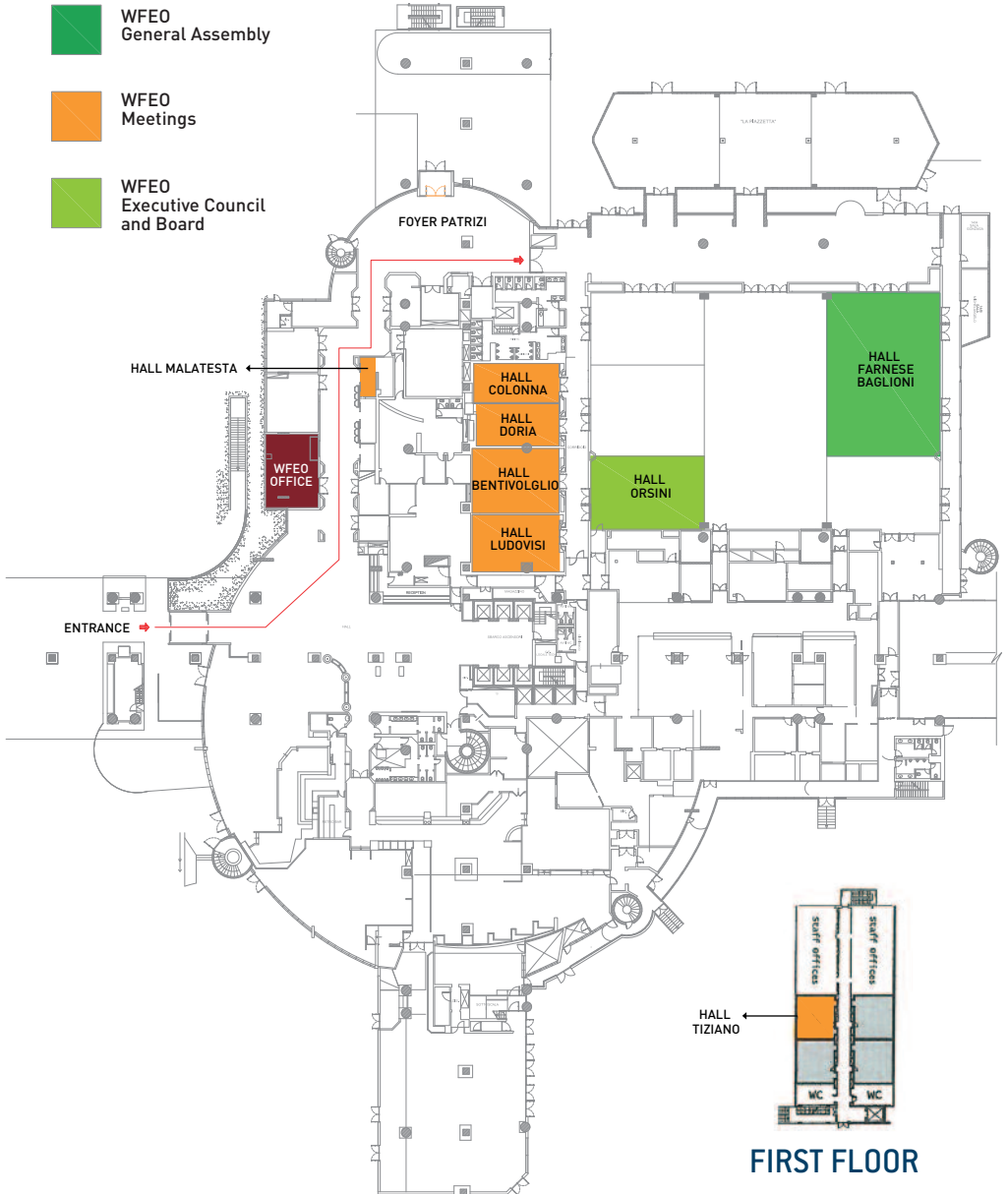
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WFEO/WEF MAPS





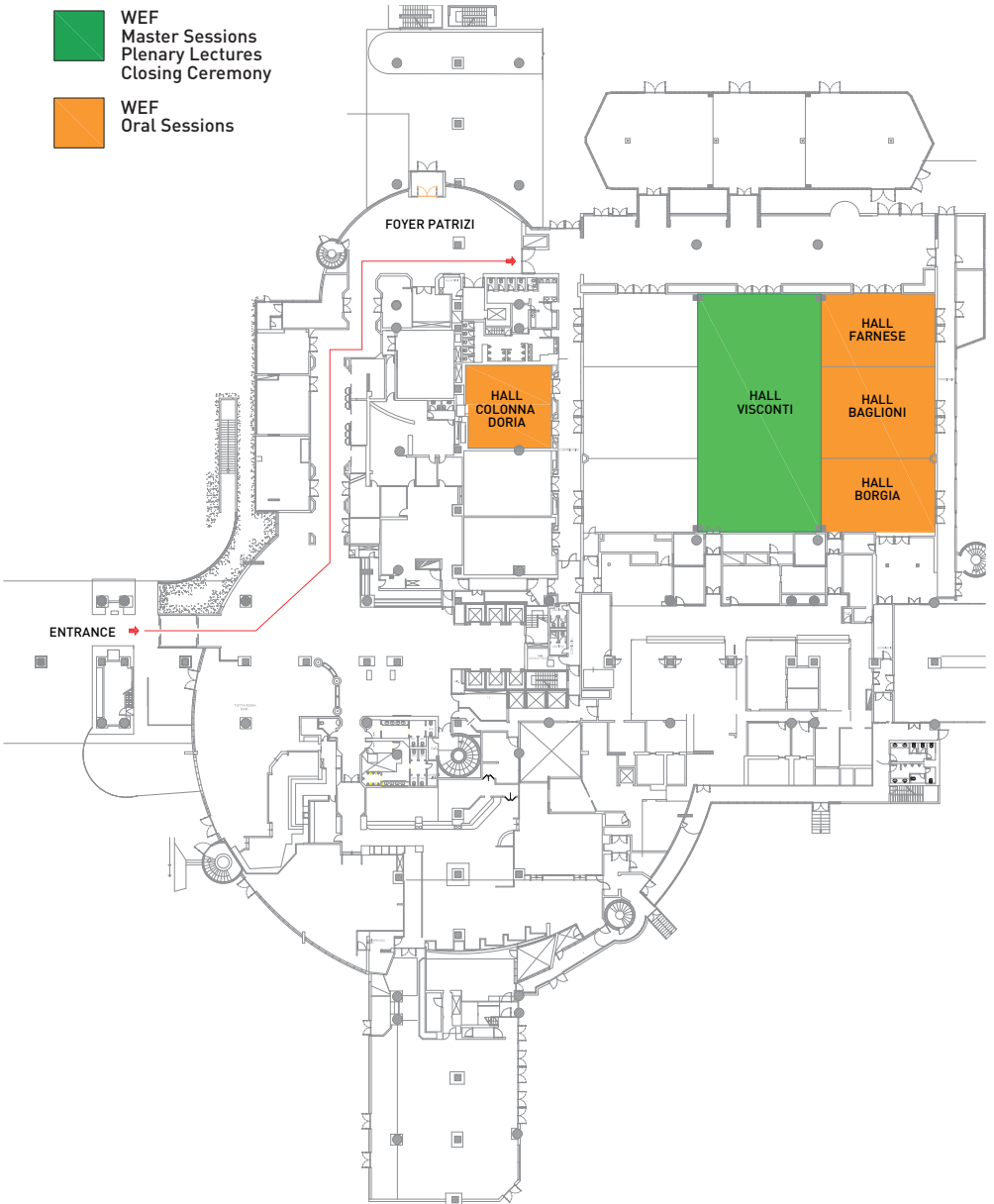
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