



**August 27-31, 2023**  
**FLORENCE - ITALY**

**16th International  
Conference on  
Wind Engineering**

# GENERAL INFORMATION



# ORGANIZED BY



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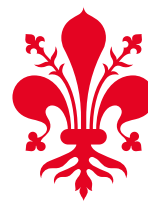


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August 27-31, 2023  
FLORENCE - ITALY

16<sup>th</sup> International Conference  
on Wind Engineering

# WELCOME

Dear friends and colleagues of the Wind Engineering community, as academics, professional and corporate officers,

Welcome to Florence, Bienvenues a Florence, Willkommen in Florenz, Bienvenidos/as a Florencia!

## Benvenuti/e a Firenze!

After 2 years of intense preparation and having decided to resume the ICWE as a fully on-site conference, ICWE16 is warmly welcoming You back to Europe - namely to the cradle of European Renaissance - in a few weeks from now.

We are really excited to announce You that ICWE16 has broken any previous record of attendance in in IAWWE Conferences history, having reached 720 registered participants. The conference will be organized in 6 plenary sessions, 8 Minisymposia, 115 technical sessions arranged into 7 tracks each day, 3 poster sessions, accommodating 553 papers and 45 posters.

Thank You all for this great demonstration of confidence. You might be sure: we shall not delude Your trust!

Florence (with Italy and Europe) will welcome You warmly, not only because of the temperature outside: 14 years after the EACWE (2009) and 12 years after ICWE13 in Amsterdam (2011), together with its University, with ANIV (Italian Association for Wind Engineering) and CRIACIV (Inter-University Research Centre on Building Aerodynamics and Wind Engineering) communities, our city will open its treasures and cultural attractions in order to comfortably host You while attending the 16th International Conference on Wind Engineering.

Therefore, we are glad to welcome you in Florence **at the downtown Congress Hall, Palazzo dei Congressi Villa Vittoria**, immediately by side of the S Maria Novella (Central) train station, i.e. in the very heart of the city.

We hope you enjoy the Conference and your stay in Florence!



**Claudio Borri**  
Chairman



**Gianni Bartoli**  
Co-Chairman





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# GERB Tuned Mass Damper systems to reduce vortex shedding induced oscillations.

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Long-span bridges



Puyi Bridge Jiangsu Province, China

12 x TMD 0.31 Hz  
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96 t (total)



Increase of structural damping due to ultra low frequency **TMDs**.

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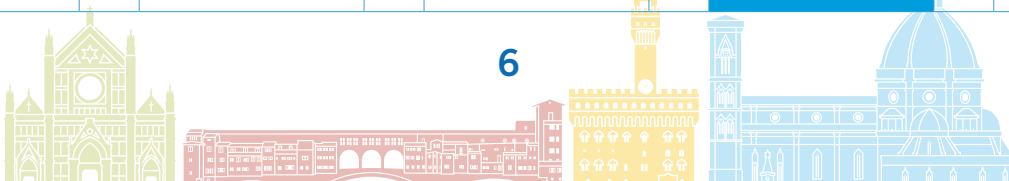
**Vibrations can be controlled –  
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# CONFERENCE STRUCTURE

Tentative structure, times might change according to the finalization of the programme.

Sunday 27 <sup>th</sup>		Monday 28 <sup>th</sup>		Tuesday 29 <sup>th</sup>		Wednesday 30 <sup>th</sup>		Thursday 31 <sup>st</sup>			
	08.30 09:15	<b>Plenary: Opening</b>		08.45 09:45	<b>Plenary: Keynote Session B</b> (Ketil Aas-Jakobsen)		08.45 09:45	<b>Plenary: Keynote Session C</b> (Vincent Denoël)			
	09.15 10:30	<b>Plenary: Keynote Session A</b> (Tracy Kijewski-Correa)		09.45 10:15	Coffee Break		09.45 10:15	Coffee Break			
	10.30 11:00	Coffee Break		10.15 11:30	Technical Sessions		10.15 11:30	Technical Sessions			
	11.00 12:00	Technical Sessions		11.30 11:45	Break		11.30 11:45	Break			
	12.00 12:15	Break		11.45 13:00	Technical Sessions		11.45 13:00	Technical Sessions			
	12.15 13:30	Technical Sessions		13.00 14:00	Lunch Break		13.00 14:00	Lunch Break			
	13.30 14:30	Lunch Break		14.00 15:15	<b>Plenary: Keynote Session E</b> (Qingshan Yang)		14.00 15:15	<b>Plenary: Keynote Session F</b> (Yoshihide Tominaga)			
	14.30 15:45	Technical Sessions		15.15 15:45	Coffee Break		15.15 15:45	Coffee Break			
	15.45 16:15	Coffee Break		15.45 17:15	Technical Sessions		15.45 17:15	Technical Sessions			
	16.15 17:45	Technical Sessions		17.15 17:30	Break		17.15 17:30	Break			
17.30 18:30	<b>Registration opens</b>		17.45 18:00	Break		17.30 18:30	Technical Sessions		17.30 18:00	<b>Plenary: Closing Session</b>	
18.30 19:30	<b>Ice-breaking light cocktail</b>		18.00 19:00	Technical Sessions							
						20.00 22:00	<b>Gala Dinner</b>				





# COMMITTEES

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Giuliano Augusti

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## COMMITTEES

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Qingshan Yang, *China*

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## KEYNOTE SPEAKERS

### Tracy Kijewski-Correa



## Accelerating the disaster data to knowledge life cycle: case studies in the use of open data in recent hurricanes

**Monday, August 28<sup>th</sup>**  
**09:15 - 10:30**

Tracy Kijewski-Correa is the William J. Pulte Director (acting) of the Pulte Institute for Global Development in the Keough School of Global Affairs at the University of Notre Dame, where she also serves as co-Director of the School's Integration Lab (i-Lab). As a professor of Civil Engineering and Global Affairs, jointly appointed in the Department of Civil and Environmental Engineering & Earth Sciences, she is a faculty fellow at a number of Notre Dame institutes including the Kellogg Institute for International Studies, Fitzgerald Institute for Real Estate, and Environmental Change Initiative, while also serving as a member of the Executive Committee of the Structural Engineering Institute of the American Society of Civil Engineers.

Her research is dedicated to enhancing the resilience and sustainability of hazard-exposed communities, with an emphasis on conceiving holistic responses to infrastructure vulnerabilities and tools that support science-informed decision making by diverse stakeholders. She currently serves as the inaugural director of the National Science Foundation's (NSF) Structural Extreme Event Reconnaissance (StEER) network, assessing the impacts of major hazard events using advances in data science. Leveraging these and other open data sources, she is similarly leading the development of regional simulation tools for hurricane risk assessment through the Natural Hazards Engineering Research Infrastructure (NHERI) Computational Simulation Center (SimCenter).

Her interdisciplinary work further explores how to effectively integrate field observations, simulations and experiments to advance coastal policy and practice, including participating in the design of a National Full-Scale Testing Infrastructure for Community Hardening in Extreme Wind, Surge, and Wave Events (NICHE), a major research infrastructure to experimentally simulate impacts of climatological hazards and mitigation solutions for frontline communities.

This work complements her ongoing efforts to study the uptake of mitigation guidance for self-recovery from disasters across the United States and around the world, most recently through her work in Lake Charles, LA funded under NSF's Strengthening American Infrastructure program and service on the National Academies of Science Engineering and Medicine consensus study on Compounding Disasters in Gulf Coast Communities, 2020-2021. This work builds on her active involvement in the recovery following multiple disasters in Haiti, including the most recent earthquake in 2021.

Her contributions have been recognized by awards from the American Society of Civil Engineering, American Political Science Association, Institution of Civil Engineers, International Association for Wind Engineering, and American Association for Wind Engineering. KijewskiCorrea is formally trained as a Civil Engineer with a specialization in Structural Engineering, earning her Bachelor of Science, Master of Science, and PhD from the University of Notre Dame.



## KEYNOTE SPEAKERS

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### Ketil Aas-Jakobsen



## Wind engineering for conceptual design of long span bridges excited by wind and waves

**Tuesday, August 29<sup>th</sup>**  
**08:30 - 09:45**

**Ketil Aas- Jakobsen** has extensive experience with conceptual and detail design of wind sensitive long span bridges and other structures exposed to wind and waves. His background with a PhD in wind engineering and practical experience from aerodynamics of long span bridges, floating bridges and floating wind turbines makes him a specialist within this field.

His specialist knowledge has been valuable in his work as project manager of several long span bridge projects, where he has led cross-company multidisciplinary teams in both owner driven projects with public clients, and design-build projects with contractors as clients.

Recent responsibilities with emphasis on wind and aerodynamic has been aerodynamic design of the multispan suspension bridge across the Chacao channel (1055m+1155m in Chile) and independent check of Canakkale bridge with a main span of 2023m (Turkey).

As a project manager he has led the concept developments of the multispan TLP suspension bridge across Sulafjorden (3x1120m, Norway) and the multispan TLP suspension bridge across Halsafjorden (1020m+1060m, Norway). Currently he is working on wind design of the 5km long floating bridge across Bjørnafjorden (Norway) and the Julsundet suspension bridge across Julsundet (1625m main span, Norway).

The main focus of his work is to develop and document safety for innovative long span bridges.



## KEYNOTE SPEAKERS

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### Qingshan Yang



## Estimation of Wind Effects on Large Roof Structures

Tuesday, August 29<sup>th</sup>  
14:00 - 15:15

**Qingshan Yang** received his Ph.D. in structural engineering from Harbin Institute of Technology, China in 1996. He is the Dean of School of Civil Engineering, Chongqing University, after worked at Beijing Jiaotong University for about twenty years.

He is the Distinguished Professor of Chang Jiang Scholars Program, Ministry of Education (MOE) and the Holder of Outstanding Young Scholars Fund as well as the Leader of the innovation research group of the National Natural Science Foundation of China (NSFC).

Dr. Yang has been focusing on the wind-induced disaster mitigation and wind energy utilization, and has led a number of key projects sponsored by NSFC, the China-Japan Joint International Cooperation Project, and the International Cooperation 111 Projects entitled "Base for Introducing Talents of Discipline on Mitigating Wind-induced Disaster of Wind-sensitive Infrastructures" and "Base for Introducing Talents of Discipline on High-performance Wind Energy System and Effective Operation."

He is the Deputy Director of the Wind Engineering Committee of China Civil Engineering Society and the Space Structure Committee of China Association for Engineering Construction Standardization. Dr. Yang has published more than 300 papers, and 3 monographs. He is the chief editor of the Chinese National Standard for wind loads on roof structures.

Dr. Yang twice received second prize for the National Science and Technology Progress Award, and 15 other awards for his research efforts, including the 10th Guanghua Engineering Science and Technology Award from China Academy of Engineering (CAE) and the Young Teacher Award, MOE, China.





## KEYNOTE SPEAKERS

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### Vincent Denoël



## Evolution of Equivalent Static Wind Loads and Envelope Reconstruction in Wind Engineering

**Wednesday, August 30<sup>th</sup>**  
**08:30 - 09:45**

**Vincent Denoël** is Professor in Structural Engineering at the University of Liège, since 2009. He received his Master Diploma in Civil Engineering (2001) and Ph. D. in Applied Sciences (2005) from the University of Liège. From 2001-2009 he was a Researcher for the National Research Fund in Belgium.

His areas of research concern the random dynamics of low-dimensional systems, structural dynamics, the characterization of dynamic actions such a wind and human loads, and the numerical simulation of flexible structures and biomechanics. He leads the Structural & Stochastic Dynamics research lab at ULiège. The diversity of his area of activity results from very varied research stays in Germany, Japan and Australia over the period 2005-2009.

He teaches statics, structural dynamics, probabilities and stochastic mechanics, and perturbation methods for engineers. His research works have led to 125+ papers indexed in Scopus and 175+ communications in conferences and congress. Vincent Denoël is also appointed as an Adjunct Professor and is a member of the PhD doctoral school at the University of Minnesota where he co-supervises doctoral theses.

He has collaborations with important research institutes and industrial partners across Europe and America. He owns a world record for the longest death ride installed in urban area (2010) and received in 2015 the "Junior Award" of the International Association for Wind Engineering.

He is also an editorial board member of the Journal of Wind Engineering & Industrial Aerodynamics (Elsevier), the Journal on Wind & Structures (TechnoPress) and Wind (MDPI), and currently acts as the Europe-Africa Regional Coordinator for the International Association of Wind Engineering.



## KEYNOTE SPEAKERS

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### Yoshihide Tominaga



## CFD simulations of turbulent flow and dispersion in urban and nonurban environments: A perspective review

**Wednesday, August 30<sup>th</sup>**  
**14:00 - 15:15**

**Yoshihide Tominaga** was born in Uonuma, Niigata Prefecture, Japan, in 1967. He received his B.E. degree in architecture from Niigata University, Japan, in 1990 and his M.E. and Ph.D. degrees in architecture from the Graduate School of Engineering at the University of Tokyo, Japan in 1992 and 1995, respectively. In 1995, he joined the Department of Architecture and Building Engineering at the Niigata Institute of Technology as a research associate. He became an associate professor in 1999 and a professor in 2003.

He has also served as the director of the Wind and Fluid Engineering Research Center, Niigata Institute of Technology, since 2018. He became a visiting researcher at Concordia University, Montreal, Canada, in 2006 and 2011 to collaborate with Prof. Dr. Ted Stathopoulos. He has served as the associate editor for the Journal of Wind Engineering and Industrial Aerodynamics since 2021.

He is a member of the Board of Directors of the Japan Association for Wind Engineering, the chair of the Steering Committee on Air Quality and Wind Environment at the Architectural Institute of Japan (AIJ), and a member of the Board of Directors of the Japan Society of Snow Engineering. He received the Best Paper Award from the journal Building and Environment in 2010 (which he shared with Prof. Ted Stathopoulos of Concordia University; Canada), the Best Paper Award from the Japan Association for Wind Engineering in 2012 and 2014, and the AIJ Prize in 2017.

He specializes in the numerical modeling of microscale wind flow and the related processes in urban environments, such as pedestrian wind comfort, microclimates, air pollutant dispersion, cross ventilation, and snowdrift. His current research focuses on experimental and computational fluid dynamics (CFD) approaches, and he has significantly contributed towards developing sophisticated techniques for validating and evaluating CFD models and establishing the best practice guidelines for the CFD modeling of wind environments.





# SCIENTIFIC INFORMATION

The Conference will host Mini-Symposia (MS), Technical Sessions (TS), and Poster Sessions (PS) and is organized along 7 tracks (parallel sessions, either MS or TS); PS will be accommodated as an 8<sup>th</sup> parallel session during some of the morning TS.

Please be aware that the schedule is of critical importance for the success of the Conference, allowing participants to move from one parallel session to some other one. Very strict instructions will be given to the Chairpersons who will be strictly respecting the time allowed for presentation and discussion.

## MINI-SYMPOSIA

The first session of each Mini-Symposium will start 5 minutes before any other Technical Session, to allow the Organizer(s) to introduce the aims and the contents of the MS, by using 2-3 introductory slides (if wished); for each oral presentation a time slot of 15 minutes (12 minutes for presenting and 3 minutes for discussion) will be assigned.

## TECHNICAL SESSIONS

For each oral presentation a time slot of 15 minutes (12 minutes for presenting and 3 minutes for discussion) will be assigned

## POSTER SESSIONS

For each poster, the possibility of a flash oral presentation (no slides, in front of his/her poster) will be assigned along organized poster sessions; each poster will have a time slot of 5 minutes (4 minutes for the flash presentation and 1 minute for discussion).

All posters (A0 size, 841 x 1189 mm, vertically arranged) have to be prepared and printed according to the downloadable template.

**Posters can be hanged either on Sunday, August 27<sup>th</sup> from 17:30 to 19:30 or on Monday, August 28<sup>th</sup> from 08:00 and removed within 18:00 of Thursday, August 31<sup>st</sup>.**

Poster board will be marked with the number of poster session + abstract number following the programme order (P01 – abs number).

The poster will remain exhibited throughout the Conference duration.





## SCIENTIFIC INFORMATION

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### GUIDELINES FOR SPEAKERS

Each speaker is required to bring a USB stick with the presentation and upload the file to the computer at the Slide Center (Palazzo dei Congressi, level -2).

If your talk is in the afternoon, please upload it in the morning. If your talk is in the morning, please upload it during the break before your session at the latest.

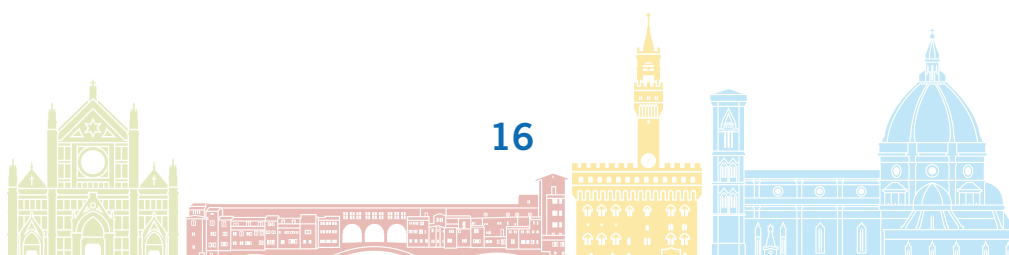
However, we strongly advise that you arrive early and do not wait until the last moment for this action.

**You will not be allowed to offer presentations using your own laptop in the conference rooms. All presentations must be uploaded at the Slide Center (Palazzo dei Congressi, level -2).**

- All session rooms are equipped with a microphone, a projector, a screen with remote control or a laptop.
- Only a single projection will be available in the session rooms.
- An assistant will always be present in each session room.
- If you wish to show web pages of live links to the Internet, please, use screenshots of these links within your presentation instead.
- Due to technical constraints of the structure hosting the conference, **the suggested presentation formats are PDF and PPT with an aspect ratio of 16:9.**

The Slide Center with laptops and technical assistance is available on Level -2 at Palazzo dei Congressi during the following hours:

- **Sunday, August 27<sup>th</sup>** **17:30 - 19:30**
- **Monday-Thursday, August 28<sup>th</sup> to 31<sup>st</sup>** **08:00 - 18:00**







## SCIENTIFIC INFORMATION

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### **PUBLISHING AND INDEXING POLICY**

The conference will be organized into parallel technical sessions (for oral presentations) and poster sessions. The Authors of abstracts accepted as posters will have the possibility of briefly presenting his/her contribution during some poster sessions (in parallel to the other technical sessions).

From the presented papers, some will be selected for possible publication in a **Virtual Special Issue of the Elsevier's JWEIA** (Journal of Wind Engineering and Industrial Aerodynamics) as a full paper after the regular peer-review; instructions about the length, format and time-scheduling of these selected papers will be given after the Conference.

Authors of all other presented papers will have the option of preparing a full-length paper for online Proceedings (published by Springer Nature); instructions about the length, format and time schedule will be provided after the Conference. These papers will be rigorously peer-reviewed, and, because of the large number of abstracts and hence of possible contributions, only those papers which will receive two positive review reports will be published in the Proceedings; all published papers will be proposed for indexing according to either Scopus or Web of Science standards.





August 27-31, 2023 **16<sup>th</sup> International Conference**  
FLORENCE - ITALY **on Wind Engineering**

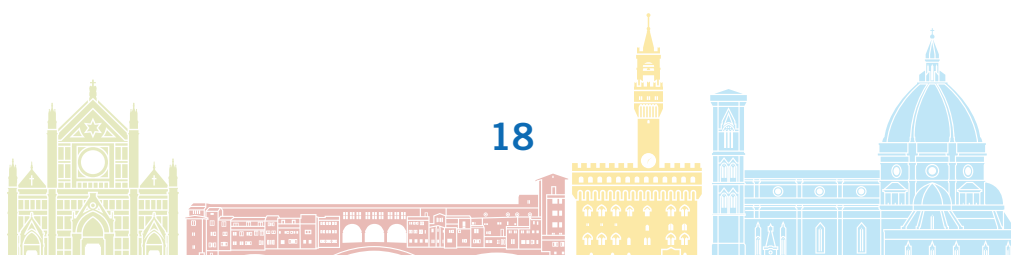
## SPONSORS

The Congress Organisers gratefully acknowledge support received from the following sponsors:



## EXHIBITION

Evo Misure and Gerb will have an exhibition space in the Passi Perduti area at level-2.

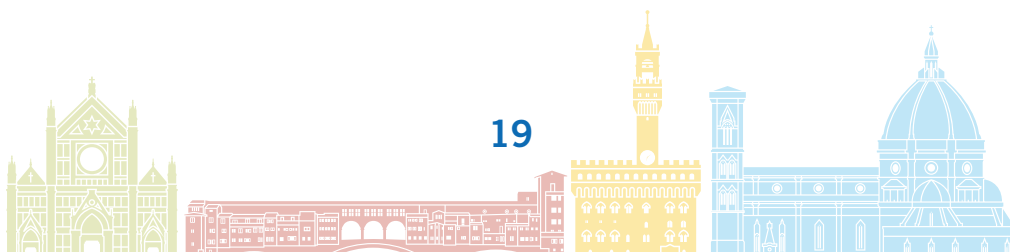
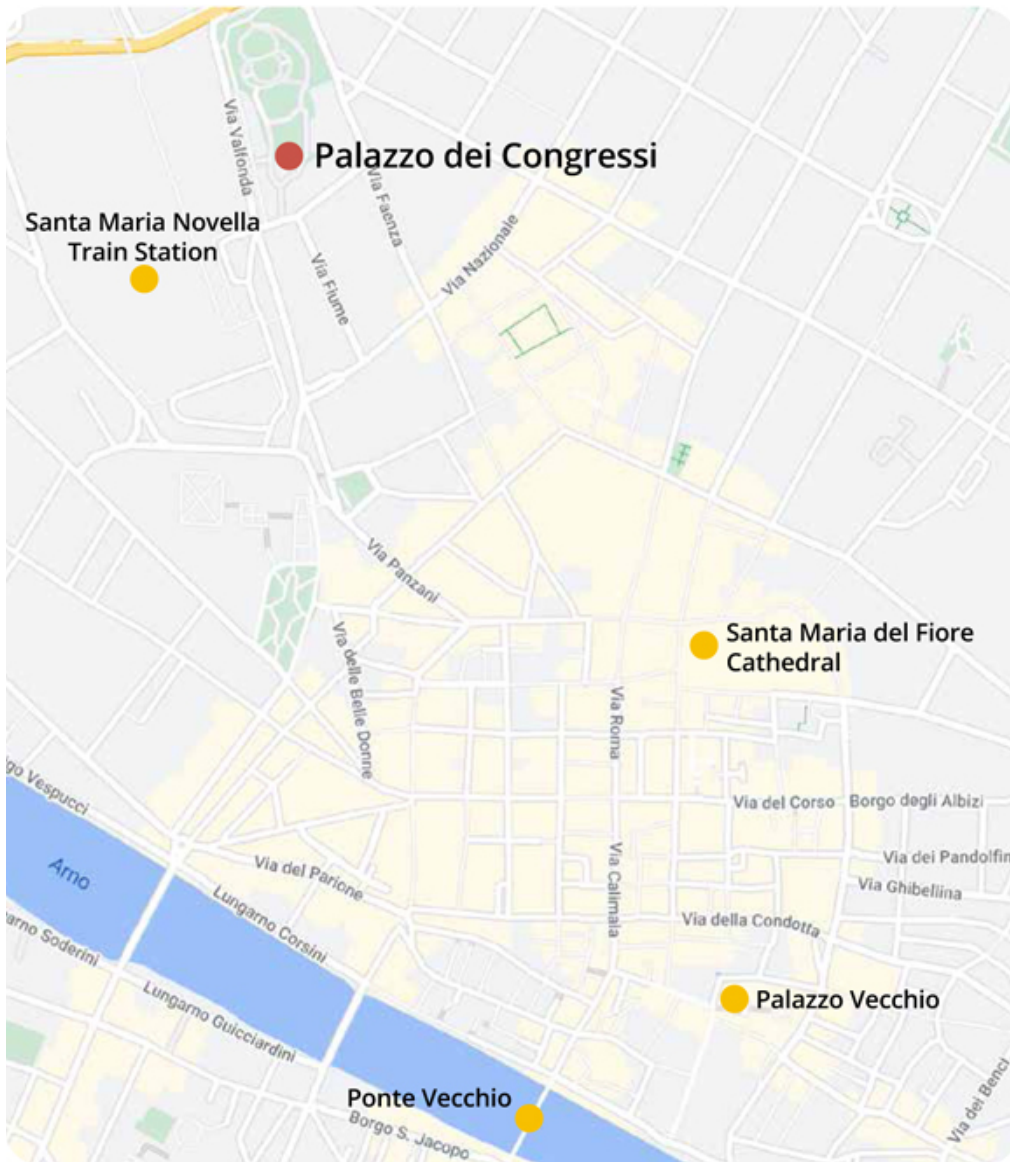


# GENERAL INFORMATION

## VENUE

Palazzo dei Congressi di Firenze – Villa Vittoria  
Piazza Adua 1- 50123 Florence, Italy

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## GENERAL INFORMATION

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### CONFERENCE ABSTRACTS

All conference abstracts are available in a USB pen inside the conference shopper.

### LANGUAGE

The official language of the conference is English.  
No translation facilities will be provided.

### REGISTRATION DESK

The registration desk will be located at the entrance of the Congress Center and open during the following days:

Sunday, August 27 <sup>th</sup>	17:30-19:30
Monday, August 28 <sup>th</sup>	08:00-18:30
Tuesday, August 29 <sup>th</sup>	08:00-18:30
Wednesday, August 30 <sup>th</sup>	08:00-18:30
Thursday, August 31 <sup>st</sup>	08:00-18:00

### REGISTRATION FEES

On-site registration is also possible at the ONSITE REGISTRATION desk and credit card or cash payment will be accepted.

The onsite registration fees of the Conference are as follows:

**Regular** € 950

**Student** € 560

VAT 22% included.

### Registration fee includes:

Congress kit, access to the scientific sessions, admission to the exhibition and poster area, certificate of attendance, coffee breaks and working lunch as indicated in the programme, Ice-breaking on August 27.

### BADGES

Participants and exhibitors are kindly requested to wear their name badge during all conference events. Admittance to the scientific sessions will be refused if the required badge cannot be presented.

### WIFI

Wifi is available in all congress spaces for all registered participants.

Lan: **ICWE2023**

Once connected please digit the password: **ICWE2023**







August 27-31, 2023  
FLORENCE - ITALY

16<sup>th</sup> International Conference  
on Wind Engineering

## GENERAL INFORMATION

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### CATERING SERVICES

Coffee breaks and lunches will be served in Passi Perduti area, level -2.  
A gluten free buffet will be available, see conference floorplan level -2.

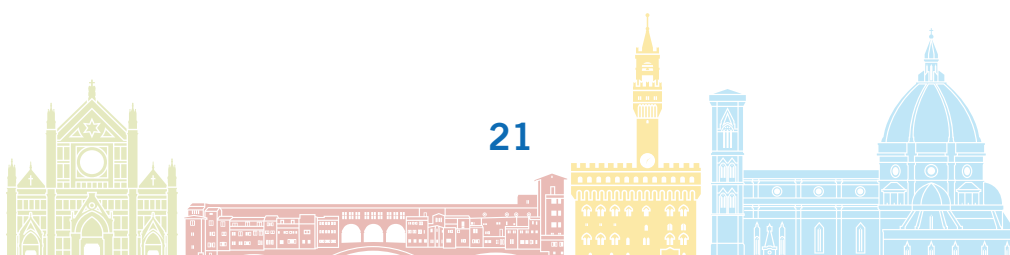
### ICWE16 MOBILE APP

Download the ICWE16 Mobile App to your mobile device.

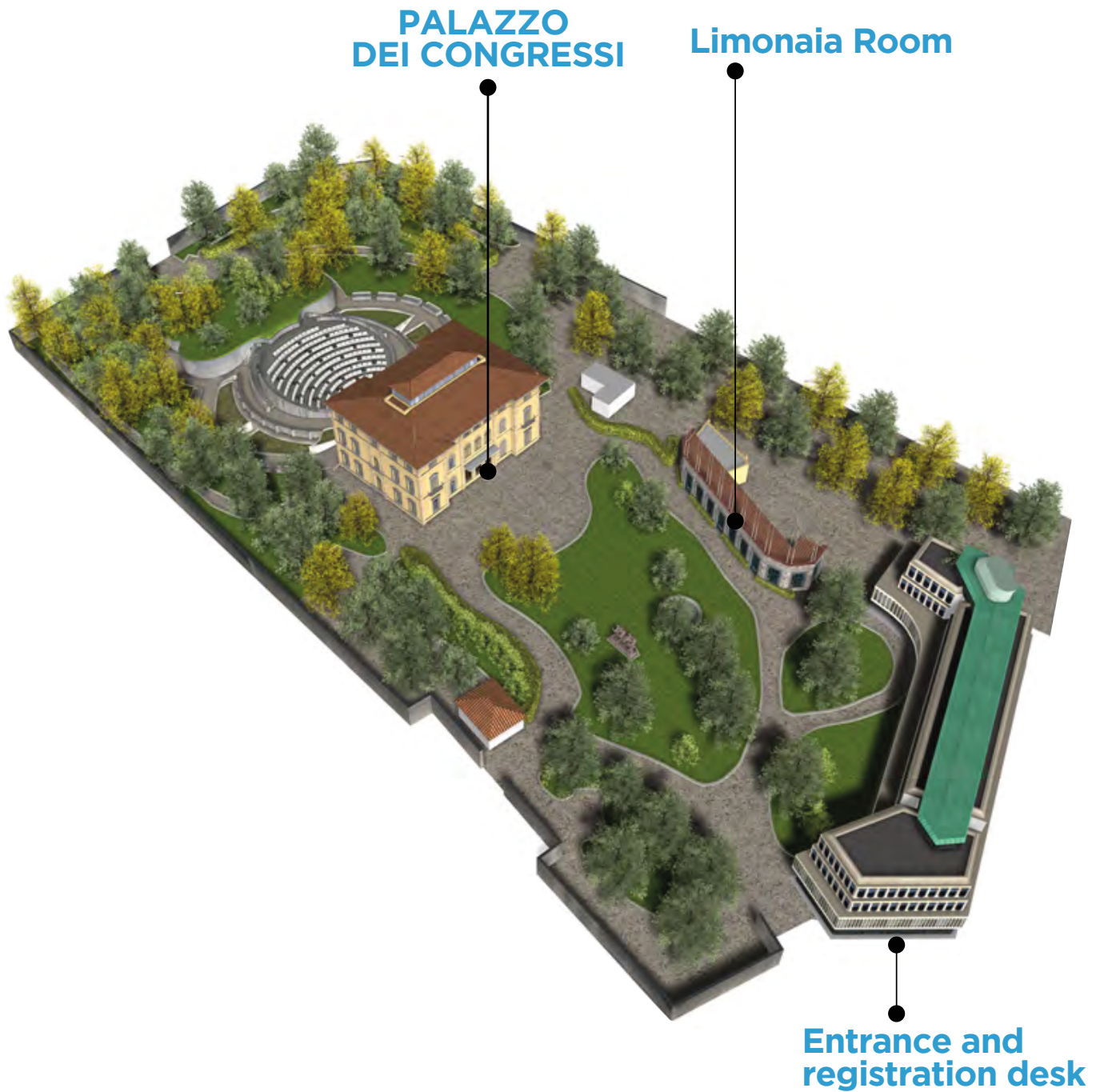


### CERTIFICATE OF ATTENDANCE

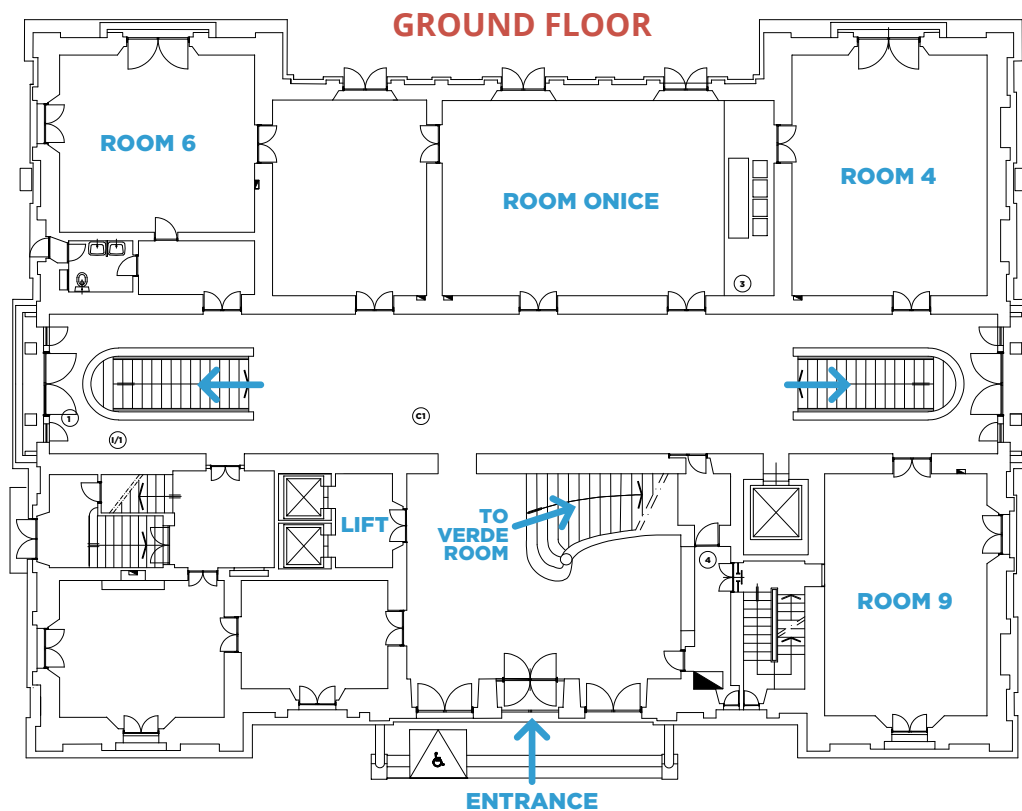
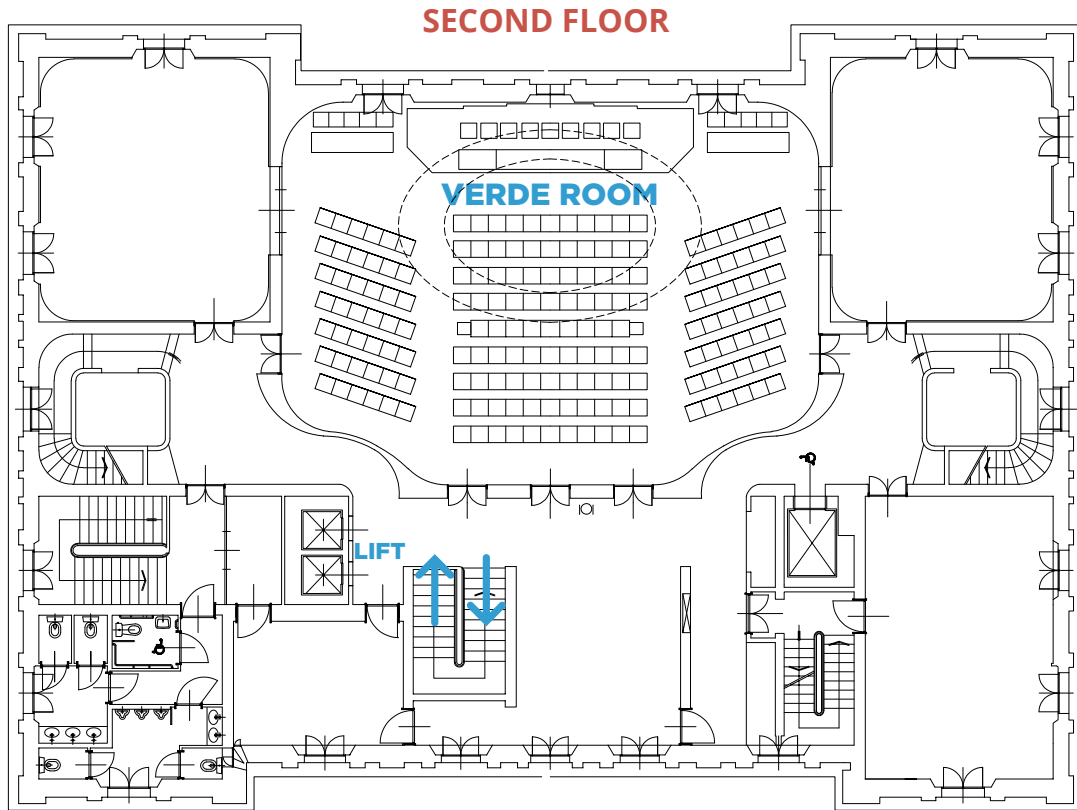
Certificates of attendance will be sent by email after the conference.



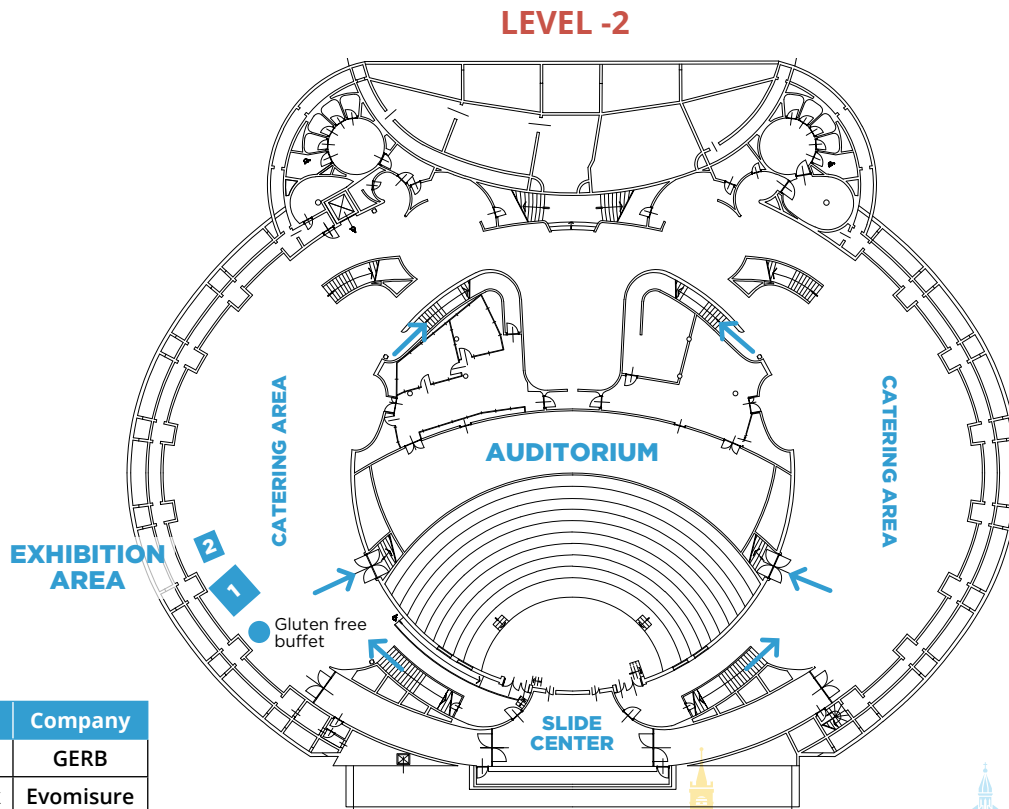
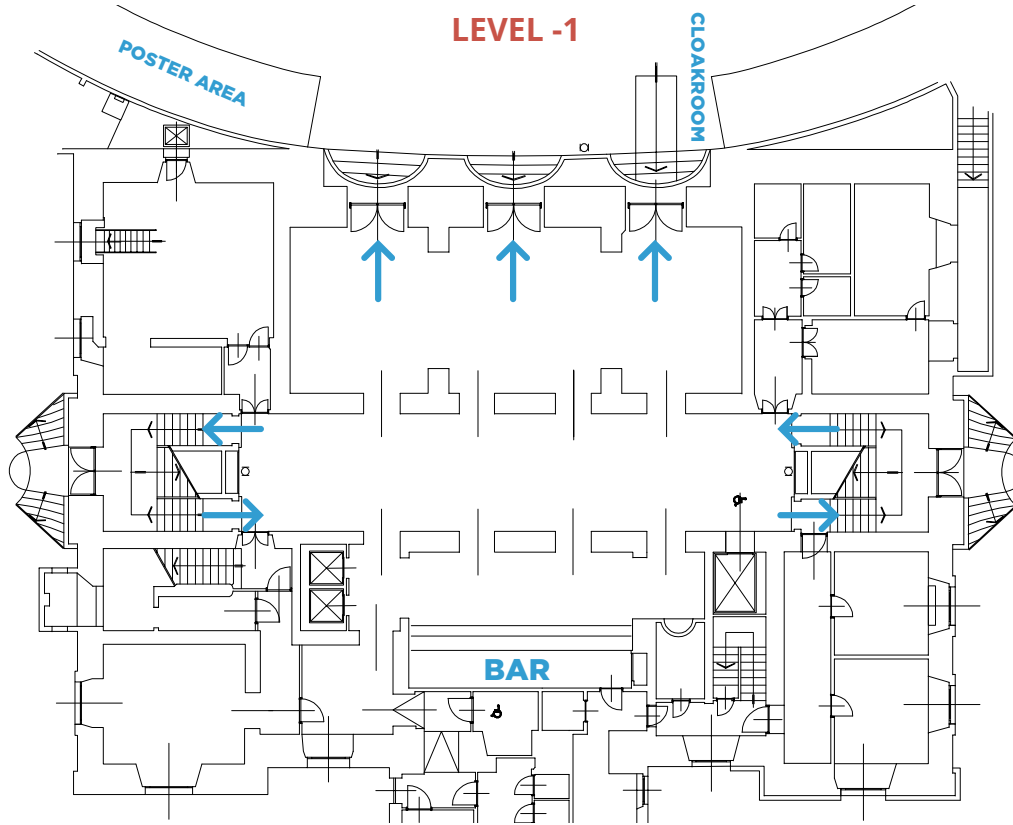
# PALAZZO DEI CONGRESSI FLOORPLANS



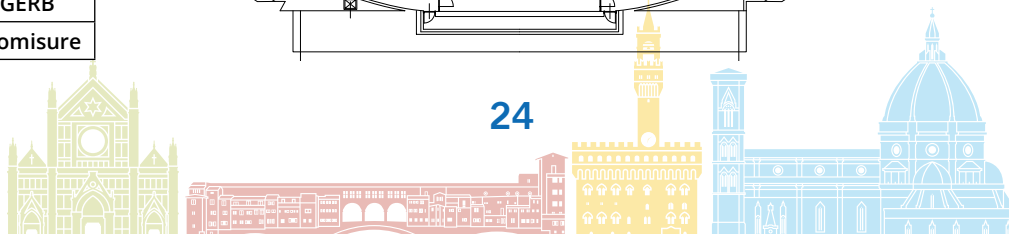
## PALAZZO DEI CONGRESSI FLOORPLANS



## PALAZZO DEI CONGRESSI FLOORPLANS



Stand	Company
1	GERB
2 desk	Evomisure





# SOCIAL PROGRAMME

## ICE-BREAKING

Sunday, August 27<sup>th</sup> from 18:30 to 19:30

### Included in the registration fee

A light cocktail will be organized on **Sunday, August 27 from 18:30 to 19:30**, 1 hour, in the garden of the Congress Center **for registered participants only**.

In case of inclement weather it will take place in Passi Perduti – level -2.

## GALA DINNER

Wednesday, August 30<sup>th</sup> at 20:00

### VILLA VIVIANI

Via Gabriele D'Annunzio, 218

[www.villaviviani.it](http://www.villaviviani.it)

A seated dinner will be organized on Wednesday, August 30<sup>th</sup> at Villa Viviani for registered participants and accompanying persons.

Because of limited number of seats the tickets of the Gala Dinner will be sold on “first come, first served basis”.

**GALA DINNER IS SOLD OUT**

### Transfer

The transfer by private bus to the Villa will leave from Piazzale Montelungo at 19:00.

Buses will stop and drop off at the gate of the Villa and there will be 2/3 minutes of slightly uphill walking to get to the Villa.

Transfer back will start at the end of the dinner and buses will drop off in front of the conference venue Palazzo dei Congressi (Via Fiume – Piazza Adua).

See floorplan here below.

Each registered participant will receive with the badge a ticket for either the Gala Dinner and possible dietary request.

### **Important!**

Ticket for the dinner must be shown to get on the bus and enter the dinner venue, ticket for the dietary has to be given to the waiter during the dinner.

**Please do not forget to bring the tickets with you.**





## SOCIAL PROGRAMME



## FLORENCE TRANSPORTATION

You can find your itinerary with public transport on the **Autolinee Toscane** website: <https://www.at-bus.it/en> in the section: "Plan your trip".

You can also download the **Autolinee Toscane** app: <https://www.at-bus.it/en/app>



# ORGANISING SECRETARIAT



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