

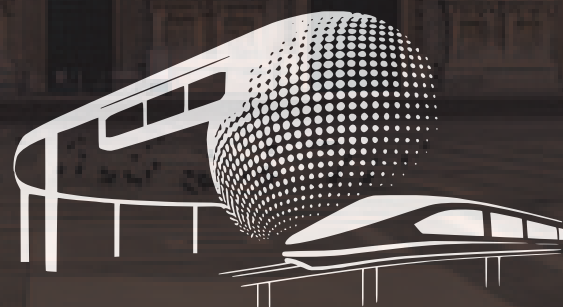
# MONORAILEX 2021

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Hybrid Event

Milan, Italy

September 24 - 28, 2021



INTERNATIONAL MONORAIL ASSOCIATION

# Invite

The International Monorail Association invites you to join the excitement and participate in its 13th annual conference, Monorailex 2021, scheduled to be held in Milan, Italy on September 24 through 28, 2021.

This hybrid event takes place ahead of the Expo Ferroviaria 2021, held at the fair Milano Rho. The format for Monorailex 2021 will include presentation of scholarly papers, development of a monorail technical specification, technical tours and opportunities to network with other professionals in the field.

## **Mission Statement**

The mission of the International Monorail Association is to organize the global monorail sector, promote the application of monorail, publish information, and initiate and support standardization processes of monorail for public mass transport infrastructure.

## **Why Monorail?**

Monorails today are an accepted alternative system for public transport. They are cost-efficient to build, safe, reliable, and environmentally friendly.

## **Venue**

Hotel 21WOL Milano Centro, Via Enrico Nöe, 24, 20133 Milano MI, Italy  
ZOOM Meeting for participants attending remotely (Login details will be announced in due time).

## **Registration Information**

Register on our website at [www.monorailex.org](http://www.monorailex.org).



Carlos Banchik, President

# Our Sponsors

This event is partly sponsored by ...

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# Schedule of Events

Subject to Change

## Conference Days

### Friday, September 24, 2021

*Location: Hotel 21WOL Milano Centro + ZOOM*

13:00 Board Meeting (all Executive Board members)

15:00 General Members Meeting (all IMA members)

*Location: Bar Basso*

18:00 Welcome Cocktail Reception sponsored by HITACHI  
(all registered Monorailex conference participants)

### Saturday, September 25, 2021

*Location: Hotel 21WOL Milano Centro + ZOOM*

08:00 Registration

09:00 Welcome

09:10 Keynote Speech Carlo Bianco,  
Director Safety Metro Systems, Azienda Trasporti Milanesi

09:30 P1 - Monorail – A True Urban Mobility Solution  
Claudio Tavella / ALSTOM

09:55 P2 - An Overview of Railway Transportation Systems for High and Medium Steep Gradients  
in Operation and Under-construction Worldwide  
Prof. Christos Pyrgidis / Aristotle University of Thessaloniki

10:20 P3 - Advantages of Multi-standard Monorail System in Logistics Transportation  
Prof. Eryu Zhu / Beijing Jiaotong University

10:45 Coffee Break

11:05 P4 - Energy Consumption Analysis of Straddle Monorail Transit in the Operational Phase  
Based on Grey Relational Method  
Teng Li / Beijing Jiaotong University

11:30 P5 - Hydrogen: New City Energy Concepts  
Jürg Fürst / Balance Drive AG , Peter Keller / DERAP AG

11:55 P6 - Hydrogen Internal Combustion Engines in Rail: A Step Towards a Hydrogen Future  
Jonathan Brown, Marko Kroenke / Ricardo Rail

12:20 Lunch - sponsored by Beijing Jiaotong University

13:30 Workshop Specification Groups, part one

15:30 P7 - The Important Factors That Define the Choice for a Transportation Solution  
Eugenio Dotta, Allan Immel / HITACHI

15:55 Coffee Break

16:25 Workshop Specification Groups, part two

18:15 Closing

19:30 Formal Dinner at Ristorante Giacomo Arengario - sponsored by DERAP, FOGTEC & INNOVA

# Schedule of Events

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## Conference Days

**Sunday, September 26, 2021**

*Location: Hotel 21WOL Milano Centro + ZOOM*

- 09:00 Opening
- 09:05 P8 - An Overview of Norms and Standards for Monorail Systems  
Michele Barbagli / TÜV Rheinland
- 09:30 P9 - Catamaran Spherical Bearings for Monorail  
Peter Günther / Maurer SPS
- 09:55 P10 - Structural Bearings for Monorail and Light Rail Bridges  
Agostino Marioni / HIRUN International
- 10:20 P11 - Special Structural Solutions for Longspan Monorail System  
Tarun Goyal / Structural Consultants Pvt. Ltd.
- 10:45 Coffee Break
- 11:15 P12 - Evaluation of Pile Axial Stiffness for Large Diameter Monopiles  
Anwar Elkadi, Ahmed Ebid, Ahmed Fikry, Dr. Walaa Eltahawy / NECB
- 11:40 P13 - Cairo Monorails – Comparison Between Actual and Theoretical Lateral Pile Stiffness and Effect on Monolithic Monorail Guideway Structures  
Anwar Elkadi, Dr. Walaa Eltahawy, Dr. A. Farghal Maree / Innova & NECB
- 12:05 P14 - Cairo Monorail Project Structural Design – Construction Observation Interface  
Dr. A. Farghal Maree, Lucas B. Moreira / Innova
- 12:30 Lunch
- 13:45 Kahoot Session
- 14:05 P15 - Line 15-Silver: Seven Years in São Paulo Subway - Activities, Expansion and Challenges  
Silvia Giacobbe, Débora Gramani, Ricardo Novaes, Celso Liboni / Metro São Paulo
- 14:30 P16 - Lessons Learned at Construction of Monorail of São Paulo – Line 15  
Rodolfo Szmidke, Tatiana da Fonzeca / Metro São Paulo
- 14:55 P17 - Panama L3 Monorail Project: A New Extensive Transportation Solution for Growing Cities  
Enzo Carpanetti, Hirabaya Yoshitaki, Gianluca Gallo, Marino Torre / HITACHI
- 15:20 Closing
- 15:25 Break, Refresh
- 15:55 Bus transfer incl sightseeing tour to Montalto Pavese
- 17:40 Welcome Reception in Casteggio - sponsored by HIRUN International
- 18:25 Visit of historical wine producer „Frecciarossa“
- 19:40 Closing Dinner at Ristorante Italia, Montalto Pavese - sponsored by DERAP, FOGTEC & INNOVA
- 22:00 Bus transfer to Milan
- 23:30 Arrival at Hotel 21WOL

# Schedule of Events

Subject to Change

## Technical Visits Days

### Monday, September 27, 2021

*Location: Milan, Bologna*

- 08:00 Start from Hotel, Bus transfer
- 08:45 Visit of Politecnico di Milano
- 11:15 Bus transfer to Milan Central Station
- 12:00 Quick Lunch
- 13:00 Train to Bologna
- 14:30 Visit of Marconi Express
- 18:30 Train to Milan
- 20:00 Arrival in Milan

### Tuesday, September 28, 2021

*Location: Milan*

- 09:00 Start from Hotel 21WOL to Hitachi Site Office, bus transfer
- 09:30 Visit Hitachi Site Office Via Gatti Milan
  - Introduction of Hitachi
  - Presentation technical CBTC Solution
  - Transfer
  - Visit of Metro Line 4 - temporary maintenance track at Linate
- 13:00 Lunch
- 14:00 Bus transfer to Expo Ferroviaria
- 15:00 Visit of Expo Ferroviaria
  - Meeting with Representatives of Expo Ferroviaria, tbc.
  - Visit of Fair
- 18:00 Individual Departure

# Venue & Registration

## Conference Hotel

Hotel 21WOL Milano Centro  
Via Enrico Nöe, 24,  
20133 Milano MI, Italy

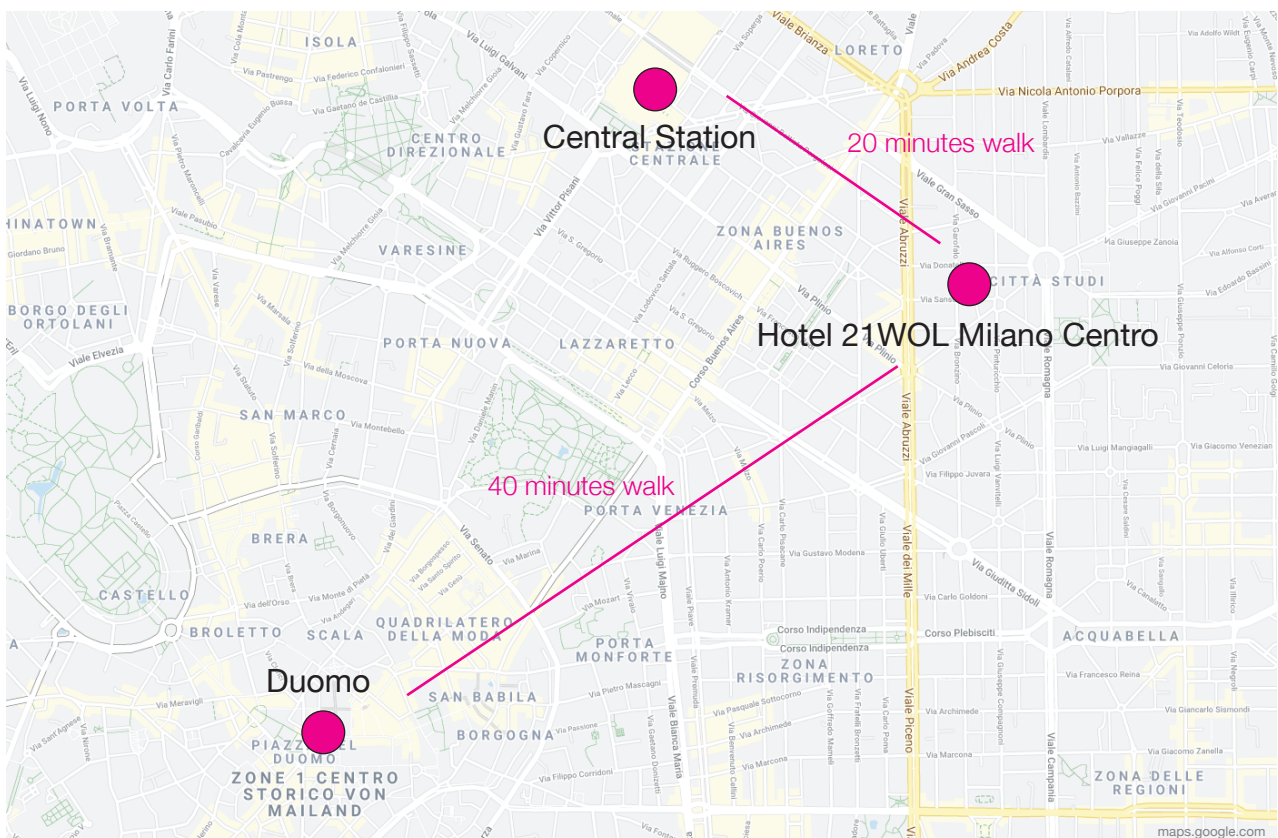
Room rates: Seasonal price plus VAT (Please contact the hotel directly.)

Additional: € 4.00 city tax per day

Booking contact: [infomicentro@21wol.it](mailto:infomicentro@21wol.it)

Booking code: Monorail Association

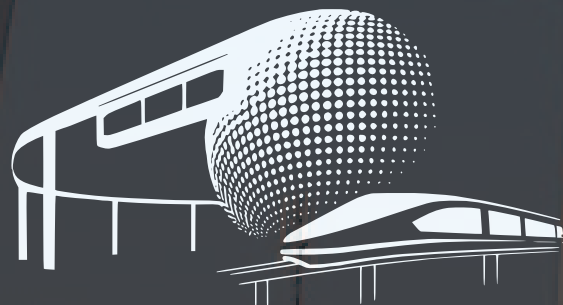
Payment Policy: Hotel requires a credit card as guarantee for each reservation.



## Registration

Registration is still possible and open until September 19th.

Visit [www.monorailx2021.org](http://www.monorailx2021.org) for detailed information.



INTERNATIONAL MONORAIL ASSOCIATION

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Switzerland

[www.monorailex.org](http://www.monorailex.org)