

# IFHE 2020 ITALY



**24-28**  
January 2021



INTERNATIONAL  
FEDERATION  
OF HEALTHCARE  
ENGINEERING



**26<sup>TH</sup> CONGRESS**  
-DIGITAL EDITION-



Società Italiana dell'Architettura  
e dell'Ingegneria per la Sanità



Fe.Na.T.O.

## GLOBAL CLIMATE ACTION IN PANDEMIC TIMES

The approach, the work organization and the future role  
of hospital engineering towards a new healthcare vision

[www.ifhe2020.com](http://www.ifhe2020.com)

Sunday 24th

2.00 pm

IFHE Council Meeting. All day event, reserved for members only.

# Monday 25th

2.00 pm	OPENING MUSIC
2.10 pm	WELCOME <i>Daniela Pedrini and Darryl Pitcher</i>
2.30 pm	KEYNOTE LECTURE <i>Mauro Grigioni</i>
2.50 pm	Chairmen: <i>Gianluca Borelli and Fábio Bitencourt</i>
	<b>Hospital Design</b>
3.00 pm	Lagoa Hospital: the Brazilian modern healthcare architecture <i>Elza Costeira</i>
3.15 pm	Light and architecture for the new intensive care hospital at Grosseto (IT) <i>Fabrizio Rossi Prodi</i>
3.30 pm	Sustainability and humanization in a rehabilitation center <i>Luciano Javier Monza Cachan and Mariana Irigoyen</i>
3.45 pm	In-house project management for a new trauma centre for Strasbourg University Hospital <i>Jacques Roos</i>
4.00 pm	High isolation hospital cluster <i>Eugenio Arbizzani</i>
4.15 pm	BREAK - Tour Digital Exhibition
4.30 pm	Chairmen: <i>Mario Tubertini and Matthias Schwabe</i>
	<b>Advanced Technologies</b>
4.40 pm	Innovation in construction management "Lean Management" for seismic work <i>Mauro Nicoletti</i>
4.55 pm	The benefits of digitalization in hospital building project <i>Paula Martikainen and Anna-Riitta Kallinen</i>
5.10 pm	Energy efficiency in healthcare: methodologies and methods of Italian energy audit prepared by ENEA and preview of the comparison of the audits received in 2019 <i>Sergio La Mura</i>
5.25 pm	Light for health and wellness <i>Dominik Alder</i>
	Chairmen: <i>Mario Tubertini and Matthias Schwabe</i>
	<b>Hospital Environment</b>
5.40 pm	Increasing urbanization and health: health policies connecting health institutions and their neighbourhoods – case study in Sao Paulo <i>Adriana Levisky</i>
5.55 pm	Retrofitted energy recovery system for air handling units in an hospital building. Maximum reducing of energy costs and CO <sub>2</sub> emissions <i>Amir Ibrahimagic</i>
6.10 pm	CLOSING REMARKS
6.30 pm	IFHE-EU EXCO Meeting, reserved for members only

# Tuesday 26th PLENARY

2.00 pm	OPENING MUSIC	
2.10 pm	WELCOME <i>Daniela Pedrini and Gaetano Bettenzoli</i>	
2.30 pm	KEYNOTE LECTURE <i>Paolo Vineis</i>	
2.50 pm	Chairmen: <i>Elena Pavan and Jonathan Erskine</i>	<b>Workshops</b> <b>PARALLEL SESSION</b>
	<b>Hospital Design and Facility Management</b>	
3.00 pm	Association of computational design, parametricism and artificial intelligence <i>Simone Aragno and Hervé Maurer</i>	3.00 pm
3.15 pm	The operating theatre spaces: the barn theatre concept <i>Katuska Maria Caicedo Mora</i>	Safe air and water in hospital: overview of current legislation and experience of IRCCS Policlinico San Matteo – Pavia <i>Roberto Lombardi</i> <i>Cristina Cerri</i> <i>Letizia Canziani</i>
3.30 pm	Post-occupancy evaluation of an evidence-based designed intensive and intermediate care unit in Finland <i>Tiina Jouppila</i>	
3.45 pm	Acoustic comfort in health care units. Evaluation, diagnosis and recommendations <i>Briseyda Reséndiz Márquez</i>	
4.00 pm	Identification of gaps in healthcare infrastructure management in Colombia under parameters of international standards of facility management <i>Manuel Madroñal-Ortiz</i>	3.45 pm
4.15 pm	BREAK – Tour Digital Exhibition	<b>FAAC</b> New patents and technologies for automatic pedestrian gates & doors <i>Massimo Mola</i>
4.30 pm	Chairmen: <i>Simona Agger and Steve Rees</i>	
	<b>Hospital Environment</b>	4.30 pm
4.40 pm	The trade-off between energy reduction, cost and innovation in healthcare <i>Jared Willems</i>	<b>TARKETT</b> How should collaboration and smarter decision-making inform the design of the hospital experience of the future? Moderator: <i>Parimal Satyal</i> , Speaker 1: <i>Florian Bougault</i> Speaker 2: <i>Mark Maffey</i>
4.55 pm	Hospitals in changing climate, Northern European perspective <i>Reija Ruuhela</i>	
5.10 pm	Acting upon the medical humanitarian emergency linked to climate change: a testimony from doctors without borders <i>Maria Ten Palomares</i>	
5.25 pm	Management of scarce water resources at the St. Elizabeth Catholic General Hospital cardiac center Shisong <i>Lionel Djankou Tchoutat</i>	5.15 pm
	Chairmen: <i>Simona Agger and Steve Rees</i>	<b>DESCOR</b> BIM for Facility Management: the digital transformation as the core of the efficiency of hospital buildings and services <i>Ludovica Petrucci</i>
	<b>Sustainable and Resilient Hospitals</b>	
5.40 pm	Sustainable design of the New Zealand University Hospital, Koge (DK) <i>Marcello Gusso</i>	
5.55 pm	IFHE Energy Award presentation: IFHE launches Global Healthcare Energy Awards Program <i>Shannon Bunsen and Walter Vernon</i>	6.00 pm
6.10 pm	CLOSING REMARKS	
6.30 pm	IFHE South-America group Meeting, reserved for members only	

# Wednesday 27th PLENARY

2.00 pm	OPENING MUSIC		
2.10 pm	WELCOME <i>Daniela Pedrini and Gabriele Pelissero</i>		
2.30 pm	KEYNOTE LECTURE <i>Douwe Kiestra</i>		
2.50 pm	Chairmen: <i>Paola Arneodo and Yoshihisa Hirayama</i>	<b>Workshops</b> <b>PARALLEL SESSION</b>	
	<b>Case Studies – Risk Management</b>		
3.00 pm	Polo city hospital of Formosa Argentina <i>Oswaldo Mario Donato</i>		3.00 pm
3.15 pm	Role of hospital engineers in disaster prevention <i>Hiroshi Yasuhara</i>		<b>FORBO</b> Creating better health care environments (the dynamics of a hospital and how floor covering can help you creating high quality sustainable indoor environments) <i>Willem Burmanje</i>
3.30 pm	Voc concentrations in hospital settings: monitoring activities in inpatient wards <i>Marco Gola</i>		
	Chairmen: <i>Paola Arneodo and Yoshihisa Hirayama</i>		
	<b>Health Organization and Management- Facility Management and Maintenance</b>		
3.45 pm	Digitalization for health in Italy: case studies and best practices of hospital agencies that profoundly believe in digitalization and BIM tools and methodologies <i>Elisa Spallarossa</i>	3.45 pm	
4.00 pm	How well managed sustainability projects can improve front line service provision <i>Fergus Sharkey</i>	<b>DEERNS</b> Smart hospital buildings <i>Eduard Boonstra</i>	
4.15 pm	Sustainable strategies for healthcare facilities management and maintenance <i>Efthimia Pantzartzis</i>		
4.30 pm	BREAK – Tour Digital Exhibition		
4.45 pm	Chairmen: <i>Virginia Caracciolo and Roger Albertijn</i>	<b>BICASA + AHSI</b> Entrepreneurial effort at the service of Healthcare <i>Fedele Di Palma</i>	
	<b>Sustainable and Resilient Hospitals</b>		
4.55 pm	Hospital design for sensible environments in the places of birth: perception and subjectivity in regular delivery centers <i>Cristiane Neves da Silva</i>		
5.10 pm	The first carbon negative hospital floor covering <i>Willem Burmanje</i>	<b>MAZZETTI ENGINEERING</b> Decarbonizing Healthcare <i>Austin Barolin and Troy Savage</i>	
5.25 pm	The functional safety integrity to enhance electrical resilience in healthcare facilities <i>Danilo Martinucci</i>		
5.40 pm	Energy Performance Contracting: an alternative financing scheme for the global climate action <i>Stefano Maestrelli</i>		
5.55 pm	Master presentation: University Course technical management in healthcare facilities at the Danube University Krems An initiative from ÖVKT and IFHE-EU under the patronance of IFHE <i>Diethard Gstir and Michael Ogertschnig</i>		6.00 pm
6.10 pm	CLOSING REMARKS		
6.30 pm	IFHE-EU Council Meeting, reserved for members only		

# Thursday 28th

2.00 pm	OPENING MUSIC
2.10 pm	WELCOME <i>Daniela Pedrini, Paul Merlevede, Douwe Kiestra, Walter Vernon, Luca Fontana</i>
2.30 pm	KEYNOTE LECTURE <i>Anna Silenzi and Michele Di Marco</i>
2.50 pm	Chairmen: <i>Susanna Azzini and Amedeo De Marco</i>
	<b>Infection Control</b>
3.00 pm	Relative humidity and susceptibility to severe disease following respiratory challenge with influenza A virus <i>Adriano Aguzzi</i>
3.15 pm	Ventilation and contamination control in operating theaters: a long term analysis on the performances in Italian hospitals <i>Cesare Maria Joppolo</i>
3.30 pm	A comprehensive system for the prevention of legionellosis in a hospital <i>Maurizio Gimigliano</i>
3.45 pm	ASHRAE infectious aerosols position documents and infection prevention learnings <i>Walter Vernon</i>
	Chairmen: <i>Susanna Azzini and Amedeo De Marco</i>
	<b>European Investment Bank – EIB SESSION</b>
4.00 pm	EIB projects in the health sector and the climate action and environmental sustainability policy <i>Roberto Musi and Enrique Trevino</i>
4.15 pm	Impact of EU sustainable finance legislation on EIB's sustainability lending and funding <i>Aldo Romani</i>
4.30 pm	How EDGE helps hospitals save costs and the planet? <i>Ommid Saberi</i>
4.45 pm	BREAK – Tour Digital Exhibition
5.00 pm	Chairmen: <i>Gunnar Baekken and Nicoletta Gandolfi</i>
	<b>Awards Ceremony, 50<sup>th</sup> Anniversary, Next Activities</b>
5.10 pm	IFHE 2020 Student Competition Award: Healthcare Engineering, Global Climate Action and Energy Requirements <i>Andy Wavell</i>
5.20 pm	IFHE 2020 Climate Change and Sustainability of Healthcare System Award <i>Angelo Conti</i>
5.30 pm	IFHE 2020 International Building Award <i>Eva Bellini</i>
5.40 pm	IFHE Congress 2022 Presentation <i>Steve Rees</i>
5.50 pm	NEXT IFHE initiatives: presentation (2023 and 2024) <i>Briseyda Reséndiz Márquez and Kevin Poggenpoel</i>
6.00 pm	Charter of Rome
6.10 pm	50 <sup>th</sup> Anniversary IFHE and Closing Ceremony of the Congress by IFHE President and friends
6.20 pm 6.30 pm	CLOSING REMARKS