



Bologna Fair District | Italy
Meeting Hall - Pad.19
Congress Hall Block D - 1st floor

15-17 February 2023

**Sustainability of Swimming Pools and SPA
in a One Health Perspective**

PROGRAMME

International Scientific Committee

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Promoted by the **Italian National Institute of Health** and by the **University of Rome "Foro Italico"**, the conference will host researchers and academics from all over the world.

PROGRAMME

Wednesday, February 15, 2023

Meeting Hall - Pad.19

Time	Event
15.30-16.30	Reception and Registration
16.30-19.00	Opening Session
16.30-17.00	Authorities Welcome Chair: Emanuele Ferretti and Vincenzo Romano Spica
17.00-17.30	Stakeholder Roundtable Chair: Federico Maestrami Aurelio Crudeli (Federterme), Marco Vitale (ESPA), Giovanni Miccichè (UNI), Ferruccio Alessandria (EUSA)
17.30-18.00	Introduction - Sustainability of Swimming Pools and SPA in a One Health Perspective Vincenzo Romano Spica
18.00-18.30	Opening Lecture - Chemistry of chlorine in pools and microbial sensitivity Lothar Erdinger
18.30-19.00	Welcome Cocktail

Thursday, February 16, 2023

Congress Hall Block D - 1st floor

Time	Event
9.00-9.30	Reception and Registration
9.00-11.00	Session I Current Regulations from different countries Chair: Michele Hlavsa and Emanuele Ferretti
9.00-9.20	Surveillance and public health policy in USA - Hlavsa M, USA
9.20-9.35	Implementation of the new French regulations on swimming pools - Boudenne JL, France
9.35-9.50	Requirements on the disinfection capacity of pool water according to the austrian bathing hygiene regulation - Sommer R, Austria
9.50-10.05	Current Regulations in Greece - Vantarakis A, Greece
10.05-10.20	Guidelines on the quality of swimming pool water in Poland - Wyczarska-Kokot J, Poland
10.20-10.35	Current Regulations in Netherland - Keuten M, Netherland
10.35-10.50	The Italian swimming pool regulatory framework - Ferretti E, Italy
10.50-11.00	Discussion
11.00-11.30	Coffee Break
11.30-13.00	Session II Chemical Risk Chair: Jean-Luc Boudenne and Maarten Keuten
11.30-11.50	Discrimination of disinfection by-products generated by particles from those formed by dissolved compounds brought by bathers - Boudenne JL, France
11.50-12.05	Identification of DBPs from different disinfectants - Trebse P, Slovenia
12.05-12.15	Identification of micropollutant decomposition products in private backyard swimming pools - Dudziak M, Poland

12.15-12.25	Chlorination by-products in indoor swimming pools: year-wise monitoring study - Genisoglu M, Turkey
12.25-12.35	Comparison of chlorate and perchlorate concentrations in swimming pool water and their correlation with the use of chlorine products, provided in ready-made canisters or generated in situ by salt electrolysis - Reuss A, Germany
12.35-12.45	Chemical indicators for pool water quality - Kurz J, Germany
12.45-13.00	Discussion
13.00-14.00	Lunch time
14.00-15.30	Session III Sustainable innovation in water and air treatment Chair: S. Şule Kaplan Bekaroğlu and Sebania Libertino
14.00-14.20	Measurements and Modeling of Chemical IAQ Dynamics in Indoor Pool Facilities - Ernest R. Blatchley III, USA
14.20-14.35	Release of particles and bacteria into swimming pool water by bathers and their removal in water treatment - Uhl W, Norway
14.35-14.50	Effects of temperature on formation potentials of trihalomethanes and Haloacetic Acids in chlorinated model BFA - Genisoglu M, Turkey
14.50-15.05	Advanced sensing strategies for water monitoring - Libertino S, Italy
15.05-15.15	The influence of outdoor temperature on Norwegian swimming hall energy consumption - Worthy A, USA
15.15-15.25	Increasing swimmer health and the quality of wastewater by using a triple electro-disinfection system as alternative for chlorine: the results in ten Belgian public swimming pools - Desmet S, Belgium
15.25-15.30	Discussion
15.30-16.00	Coffee Break - POSTER SESSION
16.00-17.30	Session IV Panel discussion: Water treatment and management for Thermae, Wellness, Bio-pools Chair: Marco Vitale, Vincenzo Romano Spica and Federica Valeriani
16.00-16.20	Hot Springs Sanitation: Towards Global Best Practice - Cohen M, Australia
16.20-16.30	Presence of Legionella in thermal waters: 16 years of surveillance. The issue set in the one health vision - Coniglio MA, Italy
16.30-16.40	Effects of mud-therapy on pain, function and quality of life in patients with rheumatic and dermatologic diseases: a systematic review - Paduano S, Italy
16.40-16.50	New evidence on the mechanism of action of balneotherapy - Fioravanti A, Italy
16.50-17.00	Risk for maintenance operators in confined spaces and/or suspected of being polluted in swimming pools, Spas and water treatment facilities. Indication of the environments at risk and point on the qualification of the operators - Di Donato L, Italy
17.00-17.30	Discussion

Friday, February 17, 2023
Congress Hall Block D - 1st floor

Time	Event
9.00-9.30	Reception and One Day Registration
9.00-10.30	Session V Biological Risk Chair: Regina Sommer and Apostolos Vantarakis
9.00- 9.20	Advanced approach for assessing safety and quality of thermal water and mud- Bargellini A, Italy

9.15- 9.30	Public health risks related to the use of swimming pools in Albania - Mataj E, Albania
9.30-9.40	Preventing strategies to control Legionella proliferation into waterlines of spas and swimming pools - Veschetti E, Italy
9.40-9.50	Effects of bubbles in preventing the proliferation of pathogens on materials used for swimming pools - Coletto A, Italy
9.50-10.05	Using Modelling of Cryptosporidium Contamination Events to Inform Public Health Actions - Chalmers R, UK
10.05-10.15	Innovative nanohybrid through Titania and Silver nanoparticles conjugation for antibacterial applications - Fratoddi I, Italy
10.15-10.25	Risk analysis of otitis externa (swimmer's ear) in children pool swimmers: a case study from Greece - Vantarakis A, Greece
10.25-10.30	Discussion
10.30-11.00	Coffee Break - POSTER SESSION
11.00-12.50	Session VI Miscellanea session: sport and physical activity, pool design and management Chair: Polonca Trebse and Ernest R. Blatchley III
11.00- 11.20	Safety of submerged suction outlets in swimming pools - Keuten M, Netherland
11.20-11.35	Water Use Management Based on Presence and Activity Levels of Swimmers in Indoor Swimming Pools - Mofidinasrabad H, Canada
11.35-11.50	Dynamic water quality modeling for improved pool designs and safer regulations - Amburgey J, USA
11.50-12.05	The effect of individual, group and aquatic exercises on health-related quality of life in older people living in residential care settings: preliminary results from two italian regions - Dallolio L, Italy
12.05-12.20	Swimming pool related health complaints: not just water and air - Bakker JG, Netherland
12.20-12.35	Examples of technological solutions used in Poland in the field of reducing the operating costs of swimming pool facilities - Lempart-Rapacewicz A, Poland
12.35-12.50	Discussion
12.50-14.00	Lunch time
14.00-15.30	Risk Assessment and Management in swimming pool and similar environments Chair: Janice Calvert and Osvalda De Giglio
14.00-14.20	Chlorine sensitivity of gram-positive and gram-negative bacterial strains under swimming pool conditions: microbial process indicators for pool water disinfection - Erdinger L, Germany
14.20-14.35	Microplastics and recreational waters - Lofrano G, Italy
14.35-14.50	Reduction of micropollutant concentration in swimming pool water - Kudlek E, Poland
14.50-15.05	Management of plumbing in swimming pools and guidelines - Bonadonna L, Italy
15.05-15.15	Respiratory symptoms in young Italian competitive swimmers: a cross-sectional study - Zanni S, Italy
15.15-15.30	Swimming pools: The logic of risk assessment as a preventive approach for health and safety management - Russo S, Italy
15.30-15.45	Discussion
15.45-16.00	Coffee Break
16.00-17.00	Closing ceremony

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