Deutsche Gesellschaft für das Badewesen e.V.

Save the Date: DGfdB Congress 2024, Wednesday, 23 October 2024, 14.00 to 17.30

The German Association for Public Swimming Pools (Deutsche Gesellschaft für das Badewesen e. V,; DGfdB) proudly presents the international session “Swimming Pools as active Partners in the Municipal Transformation” during the DGfdB Congress 2024. The session will be held in English and will address pool operators, architects and engineers as well as all other stakeholders connected with swimming pools and municipalities facing the challenge of transformation.

The session will be held hybrid, so you can either participate face to face at the Landesmesse Stuttgart GmbH, Messepiazza 1, 70629 Stuttgart or virtual. Tickets are available here: www.interbad.de/tickes

Please choose the Ticket: “DGfdB-Congress – International”, 79.00 EUR.

After booking you will receive two access links, one for the stream of the session and one for a Teamsmeeting for the chat and interaction.

Swimming Pools as active Partners in the Municipal Transformation

Swimming pools are not only important in their community because of the provision of services of general interest e. g. for public health, schools or swimming clubs, but can also become important in other contexts. The aim should be to ensure that a swimming pool in the future cannot be closed due to its diverse links to the city. This session will provide a general and partly global view on the different topics and will show, how appropriate measures can be implemented even in small municipalities

The German Association for the Bathing Industry is currently working with Z_punkt GmbH from Cologne on the project "Swimming Pools as active Partners of the Municipal Transformation". In this project options have been prioritised in which Swimming pools can play a role in the entire community. These priorities will be highlighted in this session and linked to existing practises in a German municipality.

14.00 Welcome to the future of swimming pools as active partner in the municipality
Presentation: Meike Hermanns, geising + böker gmbh, Hamburg; Michael Weilandt, DGfdB; Talea Rabe, Magistrat der Stadt Nidda (Virtual Participants Service)

14.15 COMMUNAL TRANSFORMATION, pools as actors and enablers
Andreas Neef, Julian Menninger, Z_punkt GmbH, Cologne
Pools can contribute in many ways to making municipalities fit for the future. This requires a clear view of their own potential and the courage to pursue new solutions within the municipal network. In a project with the DGfdB, fresh perspectives have been developed on how pools can successfully position themselves as players and enablers of municipal transformation in the future.

These priorities have been identified during the current project:

- *Smartification and virtualisation*
- *New ways to maintain services of general interest*
- *Green energy and decarbonisation*
- *Mental health and resilience in urban planning*

14.40 The swimming pool in the social context of the neighbourhood
Jeanne Ng, "Senior Principal" at MJMA Architecture + Design, Toronto
MJMA Architecture + Design designed the Pam McConnell Aquatic Centre in Toronto's Regent Park neighbourhood. The project was part of the City's redevelopment of the area from a socially isolated, financially assisted housing area to a mixed income, mixed use community that is fully integrated with the City's downtown. Prior to the redevelopment, the Regent Park neighbourhood had been physically disconnected from the City's urban fabric with limited car and transit links and sparse commercial activity. There was little reason for non-residents to visit the area. The re-development replaced low density housing and formless open spaces with a completely new neighbourhood that was reconfigured to support dynamic city life.

The Pam McConnell Aquatic Centre and Park is the central public space of the new neighbourhood. Located on an existing baseball diamond, the building design and park was inspired by conversations with local residents, who valued the baseball diamond as a gathering place for the community. Despite the lack of amenities, the large open area provided a place for children to play and most importantly, open views for parents to keep watch. Residents wanted the project to preserve the best of their community while holding hope that the change would bring better economic opportunities and a safer place to raise their children.

15.05 News from the digital twin - from the building to the infrastructure
Kim Jung, LocLab Consulting GmbH, Darmstadt
A digital twin is more than just a 360° panorama or a series of data. Digital twins are living 3D representations of real buildings, technical facilities or built environments. They are realistically visualised and can be experienced intuitively, they are object-based and linked to information, software, e.g. for the facility management, and they are the basis for efficient processes and better decisions.

Digital twins can be used to demonstrate and communicate designs with the help of interactive and realistic 3D models, visualise the current status quo and future variants, e.g. for new construction projects. From entire city districts to climate protection measures and transport facilities through to individual construction projects, digital twins can be used for a higher level of communication.

15.30 From the outdoor pool to the city - digitalisation in a municipal context
Eva Vanessa Wilzek, Magistrate of the City of Friedrichsdorf
From pencils to tablets, this is the route that hardly any company can avoid ensuring legally compliant operation. Not a new invention, but how intuitive can such a system actually be? Especially in view of the divergence in the digital backgrounds of different employees. One system for all cases? What happens if another property is suddenly added, with requirements that differ from those of traditional pool operations? Can this be implemented and if so, how? In Friedrichsdorf, the first solutions have been developed and implemented.

15.50 Water for swimming pools - What remains in view of the global "battle for water"?
Claude Piel M.A., Diplomatic Council Advisor to the United Nations
Swimming pools are among the largest consumers of water. In this context, the issue of water consumption in the municipal context is of particular relevance and must be taken into account. This presentation aims to sensitise for the potential scarcity of water as a global commodity, whereby a significant shortage can already be observed at present. Water consumption itself as well as wastewater recovery, roof and façade greening, among other things, are important tools that can be used by every bathroom to conserve water resources in the city.

16.15 *Climate impact management in the municipality*
Maximilian Faber & Vanessa Wilzek, Magistrate of the City of Friedrichsdorf
A holistic operating concept was drawn up for the outdoor pool in Friedrichsdorf around 10 years ago. It is to be understood as a strategic development concept. The aim is to secure the continued existence of the pool by maximising its benefits for society as a whole. This should also create benefits for a section of the population that does not belong to the actual user groups.

At the Friedrichsdorf outdoor pool, the planting of the outdoor area has been biologically upgraded as a contribution to climate impact management in the city in such a way that not only insects benefit, but surface water can also be retained. The outdoor pool is intended to be one link in a chain of green spaces in the city.

Another pillar of the concept is the integration of the outdoor pool into the local disaster control system. In the recent past, climate change has repeatedly led to forest fires. One key to successful firefighting is the rapid and sufficient supply of extinguishing water. In this case, the outdoor pool becomes a water reservoir and the pool technology has been equipped so that the emergency services can use the available technology to refuel the fire engines.

16.30 Ventilation in indoor swimming pools turned upside down - the path to the CO_2 free swimming pool
Christian von Schwartz, Malte Berrenberg, INCO Ingenieurbüro GmbH, Aachen
The use of downward stratified ventilation significantly reduces evaporation and heat consumption. How does that work? Another building block of transfrmation: the heat pump in the swimming pool. Solutions for the use of large heat pumps in the vicinity of residential buildings. With these two components, the regenerative energy generated on your own property really comes into its own.

16.55 *Sustainable energy supply in cooperation with citizens*
Maximilian Faber, Magistrate of the City of Friedrichsdorf
Like almost all other swimming pools, the outdoor pool in Friedrichsdorf is an energy-intensive facility. However, energy consumption can be minimised through numerous technical measures. Furthermore, CO_2 emissions represent a cost risk that is difficult to calculate in the future. Switching the energy supply to alternative energy sources and offsetting the unavoidable CO_2 emissions are ways of reducing the cost risk, but initially also involve high investments. Regional energy cooperatives can be one way to achieve this quickly. In Friedrichsdorf, a co-operative was founded with citizens who finance the photovoltaic systems on the outdoor pool grounds and

share in the profits. This approach generates benefits from the operation of the pool that go beyond the actual basic general benefits and turns citizens who are not actually part of the pool's actual user groups into beneficiaries of the outdoor pools operation.

17.10 Discussion

17.30 End of the Session