



**Stands.** ©Monika Fiby, 2015

### MANAGEMENT

All basins can be separated by net panels as well as water-tight thermo-slides. The basin system allows to separately house and shift various groups of dolphins and sea lions, if needed. During winter, the dolphins have access to the outdoor basins when temperatures are above -5°C.

### RESEARCH

The dolphins are involved in mirror experiments, studies on their electric perception and research on bioacoustics and ethology. Nutritional and hormone physiological research and veterinary analyses are also carried out.

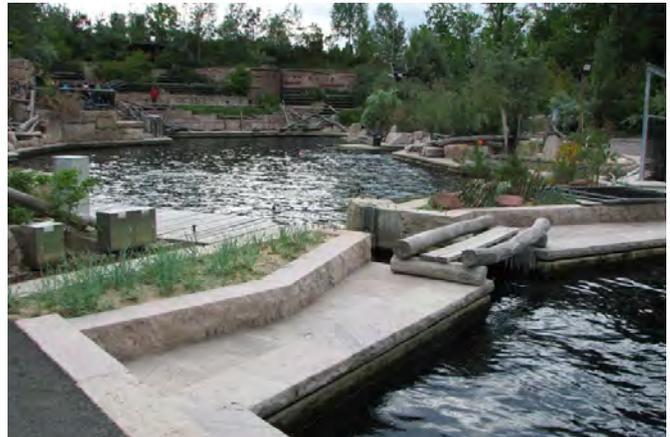
### CONSERVATION

Nuremberg Zoo supports the Society for Protection of South American Marine Mammals Yaqu Pacha.

Signs and presentations are meant to sensitize visitors to the threats to the oceans. Visitors can find practical advice about how to contribute to the protection of the seas.

The new water processing system achieves a recovery rate of 90% by an ultra-filtration technique that saves power when pumping freshwater. Water used for backflushing the filters is collected in rinsing water tanks, sent through the ultra-filtration system where it is disinfected, and then fed back into the pools. The ultra-filter must also be backflushed. First, this water is collected in a sewage tank which allows the sludge to settle out. Then the surface water is ultra-filtered again and the sludge press dried in a membrane press. The material from the press is disposed of properly. This technique has lowered salt use for the entire Lagoon when compared with the old dolphinarium. Electrical use for the pumps was also minimized because water is gravity fed through half of the water circulation.

Heat production is the result of a three-step process with solar water heaters, a block-type thermal power station and two gas holders. The basin heating is especially efficient through heat exchangers.



**Trainers' islands: The keepers move between the basins on the rock islands and on wooden bridges.** ©Monika Fiby, 2015

## Announcement

### Educational Excellence Awards to Higher Education Institutions in India 2016

PEARL Foundation is organizing National Conference on "SMART SUMMIT – 2016" during December, 2016 at Madurai, Tamil Nadu. In the eve of this conference, PEARL Foundation presenting the Educational Excellence Awards in the field of Science, agriculture, etc., in recognition of their contributions in education and excellence which is intended to produce a significant positive impact in the society and in turn contribute to the well-being of our fellow citizens. For more information please check <http://pearlfoundation.in/>