

| |
|--|
| G TECTS |
| 178 DELANCEY STREET |
| NEW YORK, NY 10002 USA |
| 212 414 2300 212 414 2301 |
| communications@gtects.com www.gtects.com |

Science Museum of Unicamp proposes an exploratory science museum on the campus of the Universidade Estadual de Campinas (Unicamp) in Campinas, Brazil. The sloping planted site of 28,000 m² is located at the edge of the existing campus at its most elevated point for a 10 kilometre deep panoramic view of the campus and the city. The museum aspires to promote the dissemination of scientific culture in a space that values learning, companionship and social inclusion. It intends to accomplish its mission by unveiling the processes by which science and technology are constituted and contribute towards the comprehension of their impacts on everyday life, as well as on the biological and social environment at large. In response, the program spaces are placed under a planted roof to allow the entire site to remain green. A tall helical wind turbine completes the composition giving the otherwise understated mass an iconic vertical presence. This vertical cylinder enables a connection with the main campus of the university by referencing the scale and form of its water tower while generating a significant portion of the museum's energy. The program consists of exhibitions, open access areas, administrative areas, service areas and outdoor areas. Circulation through the Museum is through a generous ramp which descends along a line following the slope of the terrain. The ramp serves as a spine of the Permanent Exhibition from which all other program spaces are accessed. Prevailing winds of 5 and 15 knots together with the relatively moderate temperature produce conditions conducive to natural ventilation without air conditioning. Air is introduced at the low level on the windward side and picks up some passive cooling as it flows across the concrete slab while ultimately rising in temperature due to people and exhibit heat loads. The air is drawn out of the spaces at high level at the leeward façade or in 3 meter by 3 meter glass louvred wells dispersed throughout the spaces. Glass louvred walls at the wells and the north and south façades of these spaces are manually operated and offer the potential for hands-on demonstration to visitors of the Museum. Within these wells which are open to the sky, botanical gardens enable another teaching subject integral to the building.

