

Design by Nature – recognition and transformation of nature

Nature and its principles are the core of this project. During millions of years of evolution, the nature found perfect ways to solve problems by shaping its species. Exactly these principles can help us people in our technical world to answer questions and to find new solutions. Of course, we can't copy the nature 1:1 but we can learn about construction, how to deal with waste or how to create energy...

This meteorological station in form of a giant solar sail will make people aware of future challenges especially in terms of global warming. It's an integrated system which creates energy, protects itself, offers shelter and showcases nature in a technical way.

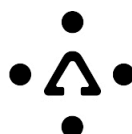
The collected weather specific data is used to control the 30m² solar sail which will follow the sun to be more effective, offer shelter to people when it rains or coil up during night and heavy winds to protect itself. Its idea is inspired by nature, for example how plants or animals adjust to their environment or the course of a day when they open or close their blooms. Sensors for temperature, wind speed, wind direction, air pressure, humidity, sun light and rain connected to the global weather forecast system make it work.

The design and construction uses nature's examples to be light, effective and durable not trying to just imitate them rather to learn how to apply them with our technology available. Everything about Design by Nature relates to nature, happens in nature and connects different aspects of nature.

We can imagine Design by Nature in urban areas as attraction for people, showcase for future and for people to re-think what life is about.

Naolab is looking for Partners and Sponsors to realize this project at the EXPO 2010 here in Shanghai.

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