2005 MERIT

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LYCEUM
A traveling fellowship in Architecture
### Material Use:

- **Thermochromic Dye Coating**
- **Memory Metal Rods**
- **Porous Membrane**
- **Microencapsulating Phase-Change Material**
- **Cool Air (retrieved from the ground)**
- **H₂O (released to the air as vapor)**

A native plants' evaporative cooling mechanism attempts to mimic the principles of natural plants' ability through a system. This design integrates a thermochromic coating, phase-change materials, and evaporative cooling through condensation. Water is released during the night, then retrieved and used to cool the area. This process creates a self-sustaining, energy-efficient system that utilizes local resources and reduces the impact on the environment.