Mozer’s Adaptive house is less an architectural expression than it is a laboratory of interactive cognitive systems. The house is a 90+ year old school building renovated to test theories in neural networking and the home. The house "learns" the habits of the inhabitants, and adapts physical properties (e.g. light, heat, and entertainment) to the user through a series of sensors and actuators spread throughout the structure. One aspect of the learning process is a goal of conservation of resources. The house will provide the minimum amount of heat, light, and so on to the user until “taught” otherwise. The house interacts through hardware (switches) and voice recognition technology. Below are images of the interior and a sensor map of the ground floor indicating input/output devices.

**MISCELLANEOUS FACTS**

The house uses a combination of remote sensing and X-10 type technology. Most of the sensors are wired through the house electrical system. The sophistication is in the software operating the system. Dr. Mozer is not an architect, but a scientist researching neural networks.

**Year of Completion**: 1990 (renovation), original schoolhouse completed approximately 1907.

**Web Link**: www.cs.colorado.edu/~mozer/house