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ARCH 3630-Advanced Detailing Studio

Prof. Aptekar

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Assignment 1: Solar Decathlon Projects

1. University of Southern California: fluxHome

This house uses sustainable and recycled materials throughout the project with modular furniture to organize the spaces. The used of vertical gardens and lawn to help filter the air while being able to plant one’s own vegetation, not only gives beauty to the project but and awareness towards health. Also I like the idea of a solar chimney to let in natural light and air for ventilation.

Ranking: 10th

1. Czech Technical University: Air House

I like this house because it blends in nicely with natural surroundings. The use of an electric bicycle for charging both the house and the occupant. I really enjoy the entire exterior and interior look, the used of wood for all the parts of this project including the furniture. A solar wooden canopy to help protect the building enveloped from the sun and wind while generating electricity, such a simple idea yet it does so much.

Ranking: 3rd

1. DC: Harvest

The focus of observing the natural ventilation to see how to incorporate into the project for comfort is a great technique. The natural combination of the different façade material gives the project an eco-friendly vibe. I like the idea of having the greywater system to use for watering the garden after being filtered, water is recycled throughout and the use of PV and flat solar panel to produce electricity and heat the water.

Ranking: 7th

1. Vienna University of Technology: LISI

I really like the protective cocoon design in which it allows the occupants to change the spaces and focus on their thermal comfort. A heat-recovering shower tray reduces the energy demand for hot water by almost one-third. With the small spaces, the used of in wall storage to help make the project more spacious.

Ranking: 1st