LEARNING BY DOING

SOLAR DECATHLON

NICOLE WOOLSEY BIGGART
UNIVERSITY OF CALIFORNIA-DAVIS
ENERGY EFFICIENCY CENTER

ZNE Challenge – *with a Car*

- Design, build, and operate solar-powered houses that are cost-effective, energy efficient, and attractive.
- ~150 contestants, 20 teams invited to build
- Open to public – 60,000 visitors

U.S. DEPARTMENT OF ENERGY
SOLAR DECATHLON

10 CONTESTS

- Architecture
- Market Appeal
- Engineering
- Communications
- Affordability
- Comfort Zone
- Appliances
- Home Life
- Commuting
- Energy Balance

1000 total points possible

OUR PROJECT WAS MULTI-DISCIPLINARY

- Biological & Agricultural Engineering
- Chemical Engineering
- Civil Engineering
- Electrical & Computer Engineering
- Mechanical & Aeronautical Engineering
- Earth Systems Science
- Business Administration
- Design
- Communications
- Economics
- Environmental Science and Management
- Film Studies
- Geography
- Human Ecology
- Land, Air, and Water Resources
- Landscape Architecture
- Managerial Economics
- Microbiology
- Political Science
- Psychology
- Sociology
- Transportation, Technology & Policy

AGGIE SOL TEAM MEMBERS

AGGIE SOL

- https://www.youtube.com/watch?v=m1kBtA8--Xs
- https://www.youtube.com/watch?v=Ct8DVE0Eu2c

HOW DID WE DO OUR FIRST TIME OUT?

- 1st Place Affordability
- 1st Place Commuting
- 3rd Place Energy Balance
- 7th Place Overall

- 2 modular home builders have contacted the team

An Amazing Educational Experience for All!

GLOBAL SOLAR DECATHLONS

- US since 2002, every other year
- Europe since 2007
- China since 2013
- *Australia?*

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