

Climate Change

We are bombarded with a great deal of information about climate change. And it is amping up.

Now they tell us that the polar ice caps are melting even faster than previously thought. To limit carbon damage, we would need to shut down all of our coal-fired power plants by 2020. But they provide half of our power and recent legislation and cap-and-trade games illustrate we are not strong enough politically to act to remove these toxins from our lifestyle quite so soon.

One year ago, the International Energy Agency announced that the rate of production in our major oil fields is declining by 7% per year. If we forgot about growing demand from China and India, we would need four more Saudi Arabias to keep burning at the same rate just to get to 2030.

Natural limits are being imposed by climate change, and denial is not a viable strategy for us, let alone our children.

So what is one to do?

Everything you can.

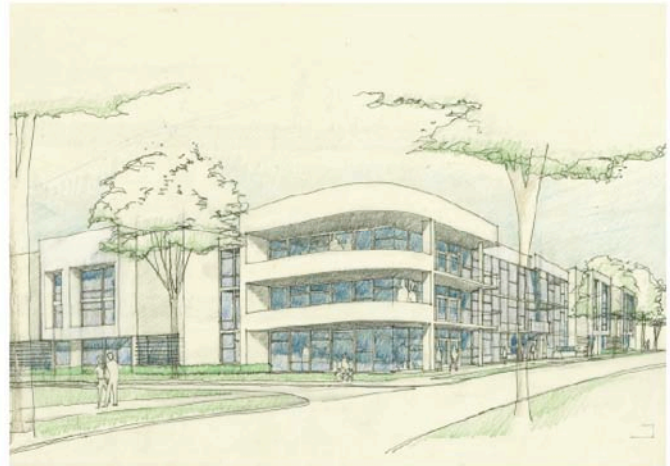
In response to a recent competition among developers for a site in University Circle, we created a design that provided student housing for UCI's schools in a highly sustainable manner that will achieve LEED Platinum certification.

An envelope of reconstituted slate panels and cement fiber siding, a super-insulated exterior wall with continuous insulation, soy-base interior insulation that requires no water to grow, and carefully shaded glass areas create environments where preliminary calculations indicate that in dorm rooms, with two occupants and their laptops on, heat will not be required until the exterior temperature falls to 45 degrees. Other design characteristics achieving superior sustainability include:

- Passive solar design
- Low-e Insulating glass
- Multiple glass shading devices
- Recycled steel/ precast concrete structure
- Organic wood veneer doors & millwork
- Individually controlled heat pumps
- Recycled rubber tire walk-off mats
- Programmable thermostats
- Exposed polished concrete floors
- Greywater irrigation & water-conserving landscaping
- Low-flow plumbing fixtures & infrared controls
- Heat recovery for toilet exhausts
- Zero-VOC paints on impact-resistant drywall
- High-efficiency HVAC equipment & Energy Star appliances
- Fluid-applied water/ air barriers to better manage condensation & reduce energy costs
- Operable corridor windows to flush air
- Bike storage + reclaimed wood benches

"Bill Eberhard and his colleagues developed a fabulous design with very little time that blew all of us away with its responsiveness to the neighbors and its sustainability."

Guy Tolino, Principal
Polaris Real Estate Development Co.



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Wayne Dalton Headquarters
Mt. Hope, OH
AIA Ohio Design Award
AIA Cleveland Design Award
First Place, Build Ohio Competition



Dollar Bank/
Renovation of the Galleria at Erieview
Cleveland, OH
First Place, Retail Renovation, VM+SD
National Design Competition
City of Cleveland Redevelopment
Project of the Year
IIDA Cleveland Design Award



Technology Learning Center
Cuyahoga Community College
Cleveland, OH
American School & University Design
Award



Student Service/ Learning Resource
Center
Terra Community College
Fremont, OH



McKinsey & Company, Inc.
Cleveland, OH
IIDA Regional Design Awards
IIDA + IESNA Regional Design Awards
NAIOP Regional Design Award



Vocational Guidance Services Training
Center
Cleveland, OH
AIA Cleveland Design Award
IIDA + IESNA Regional Design Awards



Waetgen Hall Renovations;
Cleveland State University
Cleveland, OH



Cafe Paradiso
Cleveland, OH
IDB/ IIDA National Design Competition
Winner
AIA Ohio Design Award
AIA Cleveland Design Award
IIDA Cleveland Design Award
NAIOP Regional Design Award

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