Chatham University
Pittsburgh, PA, USA

ISCN Conference 2013
Singapore
• Founded in 1869 - one of the oldest women’s colleges in the US

• Established co-ed graduate programs in 1994

• Became a university with three colleges in 2007
• Fastest-growing college or university in the Pittsburgh region over the past decade.

• More than 20 applied graduate programs through doctoral level

• In the top 5% of graduate-intensive institutions nationally
• 2,200 students today
• $50 million annual budget
• $60 million endowment
• Opening new Eden Hall Campus (fall '13)
A lasting legacy.
A modern mission.

Chatham’s Mission Initiatives:
Sustainability and the Environment
Women’s Leadership
Global Understanding

Rachel Carson, Class of 1929
zero net carbon emissions by 2025.
Honoring the commitment

- 100% purchase of renewable electricity.
- First in Pittsburgh to ban sale of bottled water.
- Largest solar-thermal water heater installation in Pennsylvania.
- Water management with rain gardens, barrels and more.
- Use of zip cars, 5% biodiesel blend shuttles and bike initiatives.
- Banned the use of harmful herbicides and pesticides.
- Purchase and use green cleaning supplies.
- Extensive campus composting and recycling programs.
Since 2007, Chatham’s square footage and enrollment have *increased* by 36 percent and 45 percent, yet we have *reduced* our greenhouse gas net emissions by 68 percent.
“The greenest campus in one of America’s greenest cities.”

– Princeton Review
Chatham is uniquely situated to move beyond our own “sustainable campus living labs” to create and adapt sustainability policies that guide our entire region.
To build the first campus and program in the world to integrate sustainable development, living, and learning “from below the ground up.”
The lessons and accomplishments of our downtown Pittsburgh campus, inform the plans for our Eden Hall Campus in Richland, PA.

Located in the fast-growing outer communities of Pittsburgh, Eden Hall allows us to model critically connected metropolitan environments in which to study and collaborate on many approaches to urban sustainability transformation.
BNIM and Andropogon developed a systems-based Campus Master Plan for a comprehensive 388-acre campus for 1,200 residents when fully built out over 20-25 years. Construction on the $90 million phase 1 of the master plan is underway.
Phase 1

opening fall 2013
To create a climate-positive community, Eden Hall design features a diverse mix of energy generation methods that include photovoltaic panels, an underground tubular conduit system to share heat energy, low-velocity wind turbines, and geothermal and micro-hydroelectric systems. We also recognize that technology alone cannot achieve our goals. Our faculty, students, staff, and visitors will establish norms of behavior that reduce their footprints.
//impact area: energy

ENERGY and CLIMATE

70% Energy Use Reduction
100% Renewable Energy Sources
0 Emissions

Efficient Buildings and Site
- High Performance Envelope
- Daylighting
- Efficient Lighting
- Advanced HVAC Systems
- Smart Controls

Linked Thermal Energy Systems
- Geothermal Wells
- Solar Hot Water
- Heat Recovery
- Energy Loop

Electrical Energy Production
- Building Integrated Photovoltaics
- Bi-Facial Photovoltaic Canopy

Waste to Energy (Future)
- Biodigester
- Fuel Cell

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Pennsylvania has more impaired waterways than any other state in the United States. Even modest rainfall causes untreated sewage to overflow into the Allegheny, Monongahela and Ohio rivers from a 4,000-mile network of aging, overtaxed city and suburban lines. Eden Hall will model watershed protection and innovative on-site water management techniques.
WATER

- 75% Potable Water Use Reduction
- 100% On-Site Wastewater Treatment
- 2 Watersheds

Impact area: water
//impact area: food & sustainable agriculture

A working agricultural classroom, Eden Hall will help students explore the critical relationship between food, the land, and the environment. Sustainable agriculture practices will produce food for the campus and greater Pittsburgh, develop and demonstrate diverse agricultural methods, teach food cultivation and marketing, and incubate small businesses.
FOOD and SUSTAINABLE AGRICULTURE

100% Organic Farming
100% Composting

Demonstration Aquaculture

Food Production
- Orchard
- Student Garden
- Kitchen Garden
- Hoop House
- Aquaculture

Food Preparation and Dining
- High Performance Kitchen
- Root Cellar
- Dining Commons
- Dairy Barn Cafe

Nutrient Cycling
- Green Waste Compost
- Food Waste Compost
- Fish Nutrients
- Blackwater Nutrients

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We create opportunities to “move beyond the campus” and engage students, stakeholders and the community in sustainability transformation.
"Moving beyond the campus" examples

Local Food Systems and Production
A broad variety of client-based student projects to encourage urban gardening, local production, and to document and link local food producers and consumers in Southwestern Pennsylvania (for Power of 32, a collaborative of regional governments).

Larimer Revitalization
Faculty and student-led research and community activism program with high-school students, local partners and community members focused on the betterment of the Larimer neighborhood.

“A More Sustainable” Richland Township
Student collaboration on master planning process with the community, local government and Allegheny Land Trust on blighted Pittsburgh Cut Flower site.
School of Sustainability and the Environment (SSE)

Founded 2008

- Promote economic, societal, and environmental well-being
- Learning is active, practice-based, and collaborative
- Collaborate with and engage communities in urban sustainability
- Partner and integrate with other degree programs
- Use of campus and community in “living laboratory” research

Over 20 faculty/affiliated faculty members and 90 students.
//degree programs

• 2010: Master of Arts in Food Studies
  • 18 graduates since May 2012
  • Fourth cohort enters fall 2013

• 2011: Certificate in Sustainable Management
  • First granted December 2012

• 2012: Master of Sustainability
  • First cohort started in Fall 2012

• 2013: Executive Master of Sustainability Leadership
  • Online 16-month program

• 2013: EARTH University one-year MSUS and MAFS

• 2014: Bachelor of Sustainability
  • Co-educational for men and women
“Chatham University’s School of Sustainability and Eden Hall Campus will have worldwide relevance to the field of sustainability. We are looking forward to a significant collaboration between EARTH University’s programs—serving students from 29 countries—and Chatham University.”

JOSE ZAGLUL, Ph.D. //
President, Earth University
Costa Rica
//international partnerships

Please join us!

- Articulations
- Accelerated master’s degrees
- Joint programs for cooperative education
- Research collaborations
- Advancing sustainability
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