The Jesuit's Response to the Global Environmental Crisis:

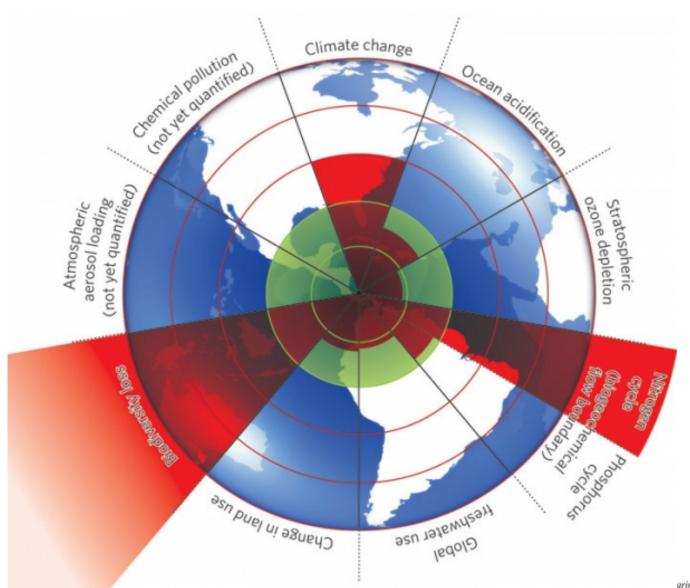
Loyola University Chicago as a Case Study

A Presentation for John Carroll University

January 2015

Nancy Tuchman, PhD, Founding Director, Institute of Environmental Sustainability Loyola University Chicago

Planetary Boundaries





Ecological Footprint Concept

- Measures how much land and water area a human population requires to produce its resources and accommodate its wastes.
 - ✓ The average ecological footprint in the United States is 24 ACRES PER PERSON.
 - ✓ Worldwide, there are 4.5 BIOLOGICALLY PRODUCTIVE ACRES PER PERSON.

If everyone lived like us, it would require 5.3 Earths to sustain the World population















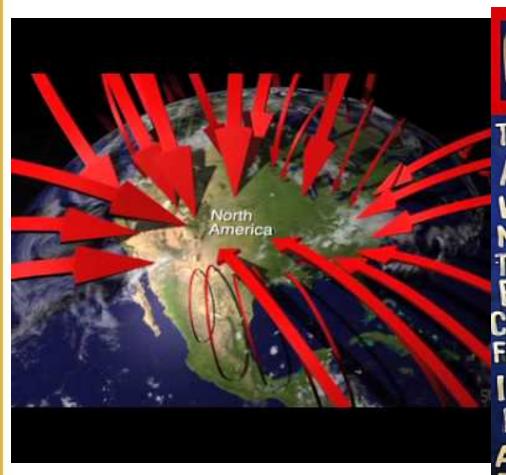
The Environmental Crisis is a Justice Crisis

Floods, droughts, wildfires, rising sea levels and intense storm events disproportionally effect the marginalized.



Preparing people to lead extraordinary lives

By 2050 there will be an estimated 1 billion climate refugees.



LIMATE REFUGEE TO THE RESIDENTS OF MERICA WITHIN THE NEXT FEW YEARS MILLIONS OF PEOPLE ARE GOL TO HAVE TO LEAVE THEIR BECAUSE CHANGES IN THE CLIMATE WILL DESTROY THE BASIS FOR THEIR LIVELIHOODS -I DECLARE THE CITY LOS ANGELES- NY-DC - SF ACLIMATE BEFUGEE CA PLEASE WELCOME AND BIVE HO

WWW.CLIMATEREFUGEES

The Jesuits Respond

- Secondary Education Directorate
- Higher Education Directorate
- Social Justice and Ecology Directorate
- Service of Faith Directorate

Development Resources Office





Shaping the Future

"Networking Jesuit Higher Education for the Globalizing World: Shaping the Future for a Humane, Just, Sustainable Globe"

Organized by the late Paul Locatelli, S.J., Secretary for Jesuit Higher Education and the Intellectual Apostolate



Universidad Iberoamericana, Ciudad de Mexico April 21 – 25, 2010



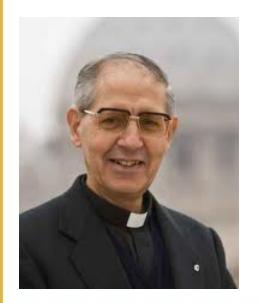




Mexico City Conference Outcomes

Father Aldolfo Nicolás, Superior General of the Society of Jesus, Developed the Task Force on Ecology

Father Aldolfo Nicolás, S.J., Superior General



Father Ronald Anton, S.J., Secretary of Higher Education

Father Fernando Franco, S.J., Secretary of Social Justice and Ecology

Ecology Task Force Outcomes

Ecology Task Force Recommendations to Father Aldolfo Nicolás







Father Paxti Alvarez, S.J., Secretary of Social Justice and Ecology

Father Michael J. Garanzini, S.J., Secretary of Higher Education



Healing a Broken World Recommendation 4: Universities

- □ Develop experiential learning environments where students are immersed in real-world environmental issues, learn to develop solutions, and are transformed by the experience.
- Develop an environmental ethic on campuses so that conservation practices become socially normative and students lead by example.
- □ Develop *curricula* that address sustainability issues and impart an environmental literacy.

Loyola University Chicago's Response to the Global Environmental Crisis

Two-pronged approach

Energy Efficiency

Education







Loyola University Chicago Energy Improvement Plan



2001

Campus Average: 120



2008 Campus Average: 60



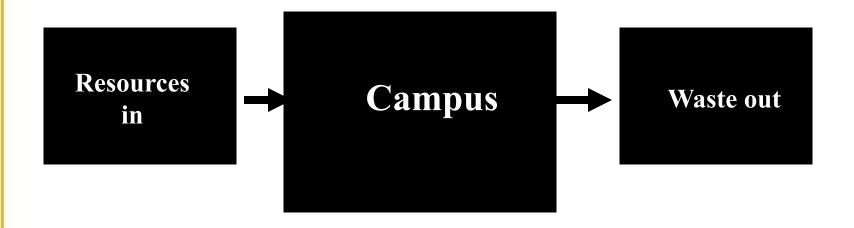
2010 Campus Average: 46

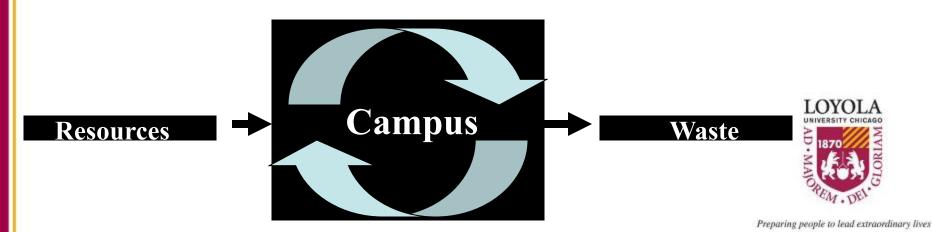
Campus Average: 35

2014 28 41 62 93 330

Goal Energy Use Intensity (EUI) in kBtu/ft²

- Raising Awareness - A Conservation Ethic Model





The new IES Facility

launched September, 2013



y lives

The new IES Facility



Increasing Environmental Literacy through the University Core Curriculum

Loyola requires every student, regardless of their major, to take an Environmental Issues course



IES Curriculum

Interdisciplinary - Science, Business, Policy, Public Health, Sociology, Ethics, Economics

■ Majors

- Environmental Science
- Conservation & Restoration
- Sustainable Agriculture & Food Systems
- Environmental Studies
- Environmental Policy

□ 5-year dual degree programs

- ENVS/Masters in Business Administration
- ENVS/Master's in Public Health
- ENVS/Master's in Public Policy



Co-curricular activities



- biodiesel program
- recycling
- rooftop gardens (QLSB, Mertz)
- Winthrop lot garden
- LUC Farmer's Market
- Student Environmental Clubs









Biodiesel Program Turning Campus Waste into Energy



JCU Sustainability efforts, Did you know...



- 9 Departments teach over 22 courses in environmental science and sustainability
- □ JCU repurposed over 21 tons of furniture for relief in Guatemala and the Dominican Republic
- JCU composts all of its cafeteria plate waste
- □ "Don't Throw it Away...Give it Away" residence hall program donated ½ ton of clothes, food and toiletries to charity the last 3 years

JCU Sustainability efforts, Did you know...



- 9 Depart^renvironr
- □ JCU re relief
- JCU
- hall program done toiletries to charity the iac

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Fr. General Calls for Collaboration

- Leveraging resources for a call to action among our Universities
 - globally
 - nationally
 - > regionally

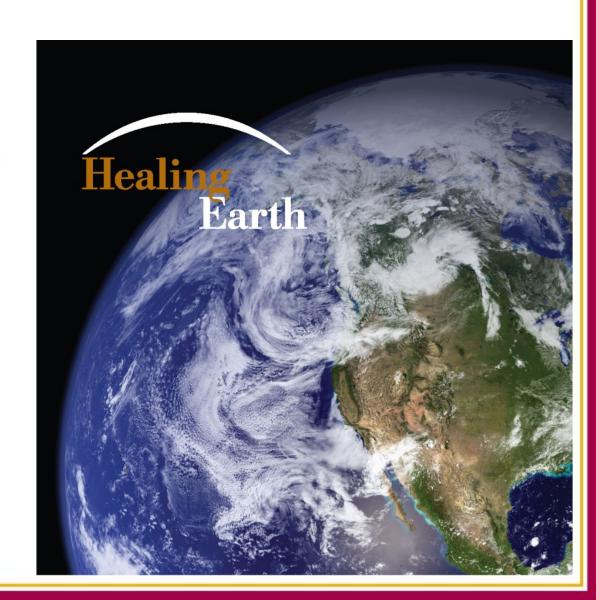




International Jesuit Ecology Project

Higher Ed
Directorate
Project involving
50 Jesuit
universities.

Will debut at the Melbourne meetings in July 2015.



Healing Earth is a free electronic textbook environmental science for First-year college students and

Advanced secondary school studer

Preparing people to lead extraordinary lives

Healing Earth takes a unique approach to environmental science

by integrating science, ethics, spirituality & action









lives

www.healingearth-dev.ijep.net





Climate Change Conference

To Tend the Earth: Responding to the Global Climate Change Crisis



Loyola University Chicago's Second Annual Climate Change Conference

March 19-21, 2015

In collaboration with:
Creighton University, John Carroll University, Marquette University,
Xavier University and University of Detroit Mercy













Climate Change Conference

To Tend the Earth: Responding to the Global Climate Change Crisis



Workshop I - Sustainable Asset Sharing

Workshop II - Divestment from Fossil Fuels

Workshop III - Leveraging our curricula through online course-sharing





