Staffulty: When Sustainability Staff Perform Faculty Roles



TRACS 2017 Presenter: Richard R. Johnson, Rice University
March 6, 2017

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TOP DEFINITION

staffulty

Stupid word used in yearbooks because some write "Staff & Faculty".

John - "Let's celebrate staffulty appreciation ek!"

Mark - "That's the dumbest word ever an say it again I will but."

#staff #faculty #staffulty #sfafulty

by swaggernaut812 July 30, 2013

Staffulty: Staff who have faculty appointments or who otherwise perform faculty roles

"Staffulty" Class Engagement Census

Staff

Level of Engagement	Number of Participants
Class assist w/o visit (e.g. provide data)	
Class assist with a visit or two (e.g. lecture, tour)	
Prolonged class engagement (e.g. project development/sponsorship)	
Teaching short for-credit courses (e.g. summer study abroad, spring break experience)	
Teaching full semester-long class	

"Staffulty" Non-Class Academic Engagement Census

Staff	
	Level of Engage
	Letters of Recor
	Academic Confe
	Research, Acade
	Academic Steer
	Curriculum Prop
	Faculty Appoint

Level of Engagement	Number of Participants
Letters of Recommendation	
Academic Conference Chair/Co-Chair/Planning	
Research, Academic Grants	
Academic Steering Committees	
Curriculum Proposals	
Faculty Appointment(s)	

Question: How can performing a staffulty role enhance the effectiveness of the sustainability office(r)?

Staffulty Role Enhances Sustainability Office

- 1. Increases student and faculty awareness of campus greening
 - Tours, lectures
- 2. Enables structured student and faculty participation in campus greening
 - Directed class projects using campus as a living laboratory
- 3. Broadens reach and raises visibility of sustainability office
 - Working with students in an academic context is quite different from working with them in an extra-curricular or intern context
- 4. Creates stakeholders and valuable relationships
 - Faculty who work with you in the classroom will work with you outside the classroom
- 5. Allows sustainability office to make meaningful contributions to academic and research mission
 - New classes, academic programs, research relationships
- 6. Opens the door to amazing opportunities...

Structured student participation via class projects

(courses not led by sustainability officer)

Rice University Building Temperature Policy



The following indoor temperature and humidity ranges for occupied spaces shall be maintained on campus:

	Temperature Range	Relative Humidity
Air Conditioning	74 – 78 degrees	40% min 65% max
Heating	68 – 72 degrees	40% min 65% max

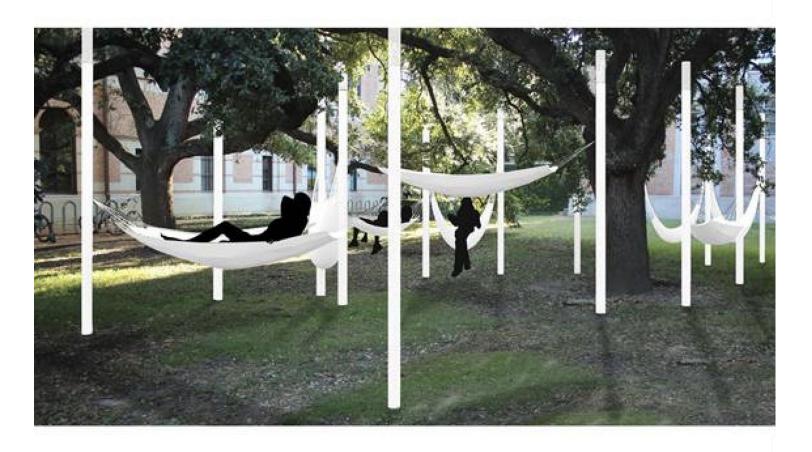
Certain specialized areas – such as laboratories, library collections, the Data Center, and galleries – are exempt from these guidelines but will be expected to be maintained within recognized efficient ranges for their type of use.

Appropriate nighttime, weekend, and holiday setbacks will be implemented outside of established hours of operation.

Creating Outdoor Study Spaces

YOU'RE INVITED! OPENING CEREMONY OF THE HANGOUT

STUDENT-DESIGNED INSTALLATION AT RICE UNIVERSITY
5-7 PM, THURSDAY, OCTOBER 13 BETWEEN FONDREN AND HUMANITIES



CELEBRATE THE OPENING WITH FOOD, DRINKS, MUSIC & HAMMOCKS OPEN TO THE PUBLIC, RICE STUDENTS, FACULTY, AND STAFF



Birth of a Pocket Prairie



Spring 2017 Scoped Projects (a sampling)

ARCH 322/622 "Case Studies in Sustainability: The Regenerative Repositioning of New or Existing Rice Buildings"

- Improving the pedestrian and cyclist experience
- The Future of Parking and Vehicle Infrastructure
- Applying a net-zero concept to a new faculty masters house
- Greening the architecture school building
- Redesigning barren plazas

CEVE 307/507 "Energy and the Environment"

- What is the best way for Rice to increase renewables in its electricity profile?
- What building-level energy efficiency projects/opportunities are a viable investment to achieve greenhouse gas (GHG) reductions?
- Should Rice create a voluntary student "green power" option for on-campus residents?
- What transportation measures would achieve meaningful reductions in GHGs?
- Should student food service change to reflect the climate impacts of the food served?
- These projects will all be evaluated using a common metric of cost per ton of GHG reduction.

Lessons learned from teaching ~20 classes using campus as a living laboratory for learning about sustainability

(courses led/co-taught by sustainability officer)

ENST 302 / SOCI 304: Environmental Issues – Rice Into the Future

The 2 Key Assignments are:

- Group benchmarking report on a specific campus greening topic across a spectrum of universities
- Group project to improve the university's environmental performance in some way

Lesson 1:

Never underestimate the ability of three (or four or five) students to effect real change.

U.S. BUILDINGS IMPACTS ON RESOURCES

39% of total energy consumption

71% of electricity consumption

39% CO₂ emissions

30% of raw materials use

30% of waste output

12% of potable water consumption



Going Green: Rice Commits To Building Energy-Saving, Eco-Friendly Facilities

Rice News, August 24, 2006*

Rice LEED Status Update

Project	LEED Rating
Anderson-Clarke Center for Continuing Studies	Gold
Baker College Addition	Silver
Biosciences Research Collaborative (Core and Shell)	Gold
Biosciences Research Collaborative (Commercial Interiors)	Gold
Brockman Hall for Physics	Gold
Duncan College	Gold
Gibbs Recreation Center	Silver
McMurtry College	Gold
Oshman Engineering Design Kitchen	Gold
Rice Children's Campus	Silver
Will Rice College Addition	Silver
Wilson House (LEED for Homes)	Silver



This represents about 20% of our total campus square footage!



Lesson 2: Access is critical.





Lesson 3: Trust is also critical.







Lesson 4: "Unsuccessful" projects can be successful.



Lesson 5: Students are resourceful.



Lesson 6: Engage constantly with project teams.



Lesson 7:

Sometimes project momentum is more important than project completion.

Building Deconstruction on Chaucer Street



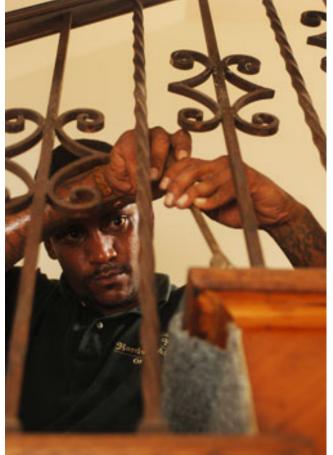




In the U.S., approximately 35-40% of the solid waste stream consists of construction and demolition waste.

-US Army Corps of Engineers













Rice Children's Campus: Reuse of Bricks

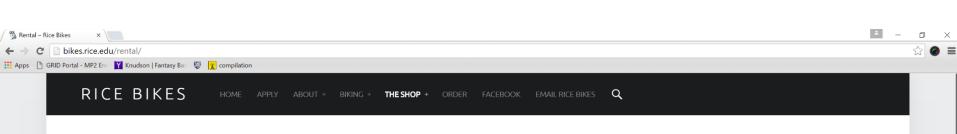




Lesson 8: Sometimes the end is not the end (or is but shouldn't be).







RENTAL

BIKE MODEL AND ACCESSORIES

HOW IT WORKS

RENTAL AGREEMENT FREQUENTLY
ASKED
QUESTIONS

Interested in renting a bike for the semester? Click here to apply! Applications are due August 22nd by 11:59 pm.



Thank you for your interest in Rice Bikes' Rental program.



Lesson 9: Success breeds success.









Welcome to the Real Food Revolution's Farm to Fork Dinner

Special thanks to

Chefs Ed , Kyle and Johnny for helping plan and prepare this dinner and to

The Center for the Study of Environment and Society and Student Activities President's Programming for helping to fund this event

Appetizers

Zucchini, spinach and oven-dried tomato rolls from Atkinson Farm

Seasonal greens and arugula with satsuma orange segments, candy cane beets and a honey citrus vinaigrette from Atkinson Farm & Animal Farm

Apple and goat cheese roulade with rainbow micro greens from Blue Heron Farms & Bella Verde Farms

Texas quail with a honey cider glaze from Lockhart, Texas

Entrees

Chicken with potato marquee, sherried mushrooms and green beans from Oaks of Mamre Farm, Animal Farm & Atkinson Farm

Vegetarian: herb-marinated tofu with potato marquee, sherried mushrooms and green beans with tofu from Calco of Houston

Desert

Creme brulee and crea puffs with caramel from Oaks of Mamre Farm

Cranberry Cous Cous

Stewed Garbanzo Beans

Steamed Cabbage and Peppers

Rice University Farmers Market Special

Vegetarian Gumbo (NO GLUTEN)

Thickened with Roux made from

Quinoa and Brown Rice Flour

(Contains Dairy)

Steamed Brown Rice



Farm-to-Fork-to-Farm Program





The 9 Key Lessons (So Far...)

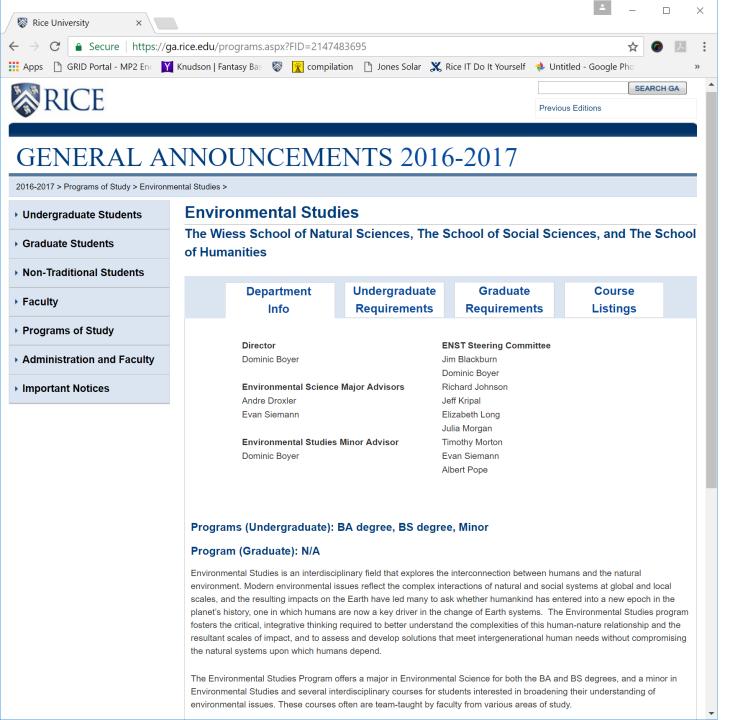
- 1. Never underestimate the ability of three (or four or five) students to effect real change.
- 2. Access is critical.
- 3. Trust is critical.
- 4. "Unsuccessful" projects can be successful.
- 5. Students are resourceful.
- 6. Engage constantly with project teams.
- 7. Sometimes project momentum is more important than project completion.
- 8. Sometimes the end is not the end (or is but shouldn't be).
- 9. Success breeds success.

Key Insight:

When the sustainability office leads a class with real on-campus projects and real campus clients, the office is able to achieve considerably more in a semester than if the staff were working on their own.

Further, the students gain real project management experience and become stakeholders in the problem and the outcome.

Contributing to the Academic Mission



Shaping the Curriculum

Stay tuned... more to come!



Amazing Opportunities

Engaging Students in Creating the Future











HSB Living Lab, Chalmers University, Sweden A Research Platform for Sustainable Living





Developing a Partnership

Institution	Resources	Needs
Chalmers University of Technology	HSB Living Lab	Projects to implement in HSB Living Lab
	Industry Partners via Living Lab	
NASA – JSC	Mars program	Teams outside NASA that can develop initial concepts
	Deep subject matter expertise	
		Terrestrial environmental to test technologies
Rice University	Institutional emphasis on experiential learning	Partners/clients for design projects
	Program, facilities, and staff to support design projects	Locations to test/implement design projects
		Short-term study abroad opportunities for engineers
		Funding to support travel for project implementation

Co-creation workshops (Houston, Sweden)

Scoped Prototyping (Rice)

Prototype Installation & Testing (Sweden)

JOURNEY TO MARS INTERNATIONAL SPACE STATION SPACE LAUNCH SYSTEM (SLS) ORBITERS LANDERS TECHNOLOGY PHOBOS 6 MARS IN-SPACE HABITAT **SPACECRAFT** COMMERCIAL **CARGO AND CREW**



THE THOUSAND-YEAR PROJECT might begin with a series of 18-month survey missions. Each crew making the six-month journey from Earth to Mars would add a small habitation module to the base.

AN ATMOSPHERE could be made by releasing carbon dioxide now frozen in dirt and polar ice caps. Factories spewing potent greenhouse gases, and maybe space mirrors focusing sunlight on ice, could start the thaw.

RAIN would fall and water would flow once enough CO2 had been released to raise the atmospheric pressure and warm the planet above freezing. Microbes, algae, and lichens could start taming the desert rock. FLOWERING PLANTS could be introduced after the microbes had created organic soil and added some oxygen to the atmosphere. Boreal and perhaps even temperate forests might ultimately take root.







Team Compost-Haste: Rice Senior Design



Team Compost-Haste: Prototyping at Rice



Team Compost-Haste: Installation at HSB Living Lab

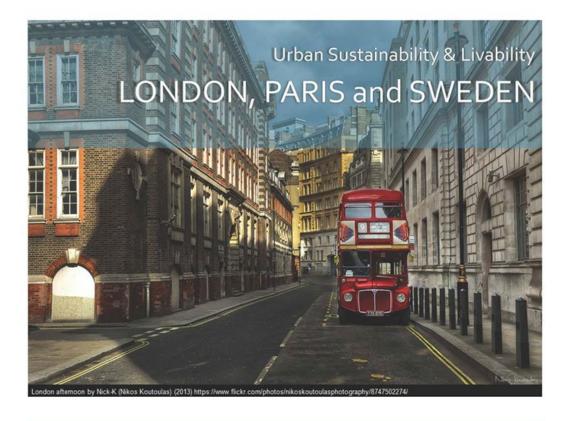


Urban Sustainability and Livability Summer Program





Revenue!



Rice Summer Institute Faculty-Led Program May 23 — June 24, 2017

Taught by Prof. Richard Johnson, Director of Sustainability, Professor in the Practice of Environmental Studies in Sociology, and Adjunct Professor in Civil and Environmental Engineering; and Dr. Don Ostdiek, Director of Policy Studies and Associate Dean of Undergraduates

Info session coming soon!

Question: What are the potential challenges associated with sustainability staff performing in a staffulty role?

Staffulty Challenges

- 1. Opportunity cost
 - What are you not doing as a result?
- 2. Leading a class takes more time than you think! (preparation, grading, class administration)
 - Strategies:
 - Teaching Assistant
 - Co-teaching
 - Limit enrollment
 - "Embedded partnership"
- 3. Don't try to be what you're not
 - If you don't have a Ph.D., play to your strength and experience as a practitioner
- 4. Avoid faculty politics and turf wars
- 5. Time burden
 - Choose your spots, find leverage points, avoid unrelated work
- 6. Uncompensated labor
- 7. You won't have the same status as faculty... so what!

Engage

1. Newsletter: sustainability.rice.edu/newsletter

2. <u>Facebook:</u> /SustainabilityAtRice

3. Twitter: @SustainableRice

4. <u>Instagram:</u> @SustainableRice

5. <u>LinkedIn:</u> Sustainability at Rice University









Questions?

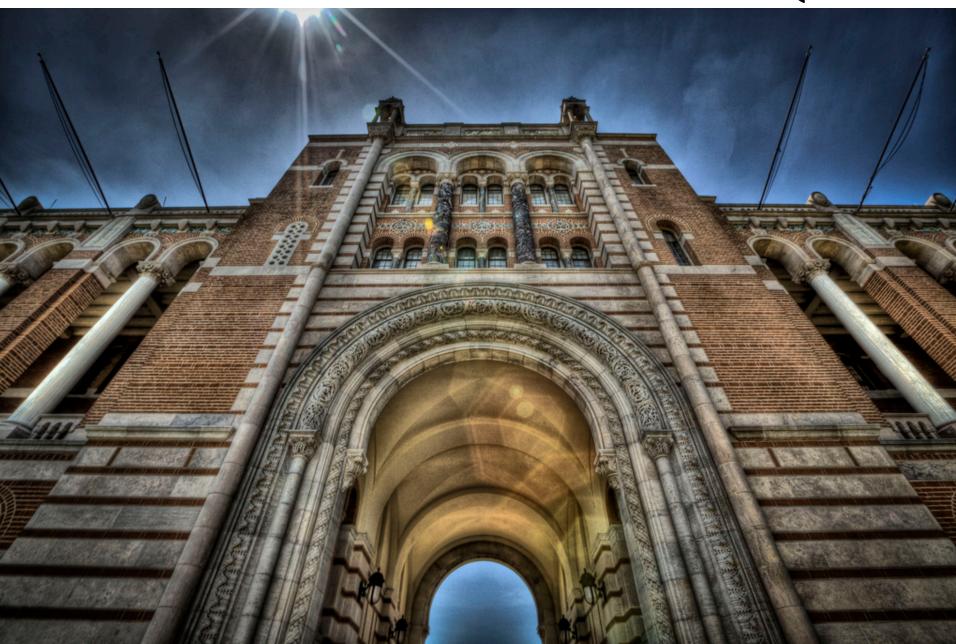


Photo by Jeff Robinson, https://www.flickr.com/photos/43193421@N02/4921409135