

Agenda

External Advisory Board Meeting
Institute for Environmental Science and Policy
September 25, 2013

- 8:30 am Coffee and refreshments
- 9:00 Greetings, introductions
- 9:15 *State of the Institute*, Thomas L. Theis, Director
 News
 Updates
 New programs and activities
- 10:00 Briefings from UIC Center Directors
- 12:00 pm Working Lunch
 EAB discussions
 Strategic Plan for the Institute
 Recommendations
- 2:00 Adjourn

IESP Mission Statement

- To advance interdisciplinary research and scholarship within the environmental sciences and engineering, economics, social thought, and policy communities among UIC's faculty and students,
- To advance our understanding of sustainable systems with a particular focus on urban regions
- To transmit workable solutions for environmental problem to the public and private sectors, and
- To prepare the next generation of environmental decision-makers

Interdisciplinary Research...

“...a mode of research by teams or individuals that integrates information, data, techniques, tools, perspectives, concepts, and/or theories from two or more disciplines or bodies of specialized knowledge to advance fundamental understanding or to solve problems whose solutions are beyond the scope of a single discipline or area of research practice”

IESP Crosscutting Themes

- Human-Nature Interactions
 - Ecological restoration
 - Systems ecology
 - Landscape ecology
 - Environmental chemistry
- Urban Sustainability
 - Urban ecology
 - Transportation systems
 - Urban planning
- Sustainable manufacturing
 - Life cycle assessment
 - Industrial ecology
 - Design for the environment
 - Material flow analysis
 - Occupational health and safety
 - Environmental technology
- Environmental Policy Analysis
 - Market-based tools for pollution control
 - Computational modeling
 - Risk assessment

Highlights 2012-2013

- Sybil Derrible, new faculty member (CME)
- Moira Zellner (UPP) promoted to Associate Professor on indefinite tenure
- \$823K external sponsored research (total \$2.6M)
- Ph.D. fellowships (4-2012)
 - Anna Czupryna (Biological Sciences)
 - Andrea Hicks (IESP/Civil and Materials Engineering)
 - Eunjung Shin (Urban Planning)
 - Kristin Woycheese (Earth and Environmental Sciences)

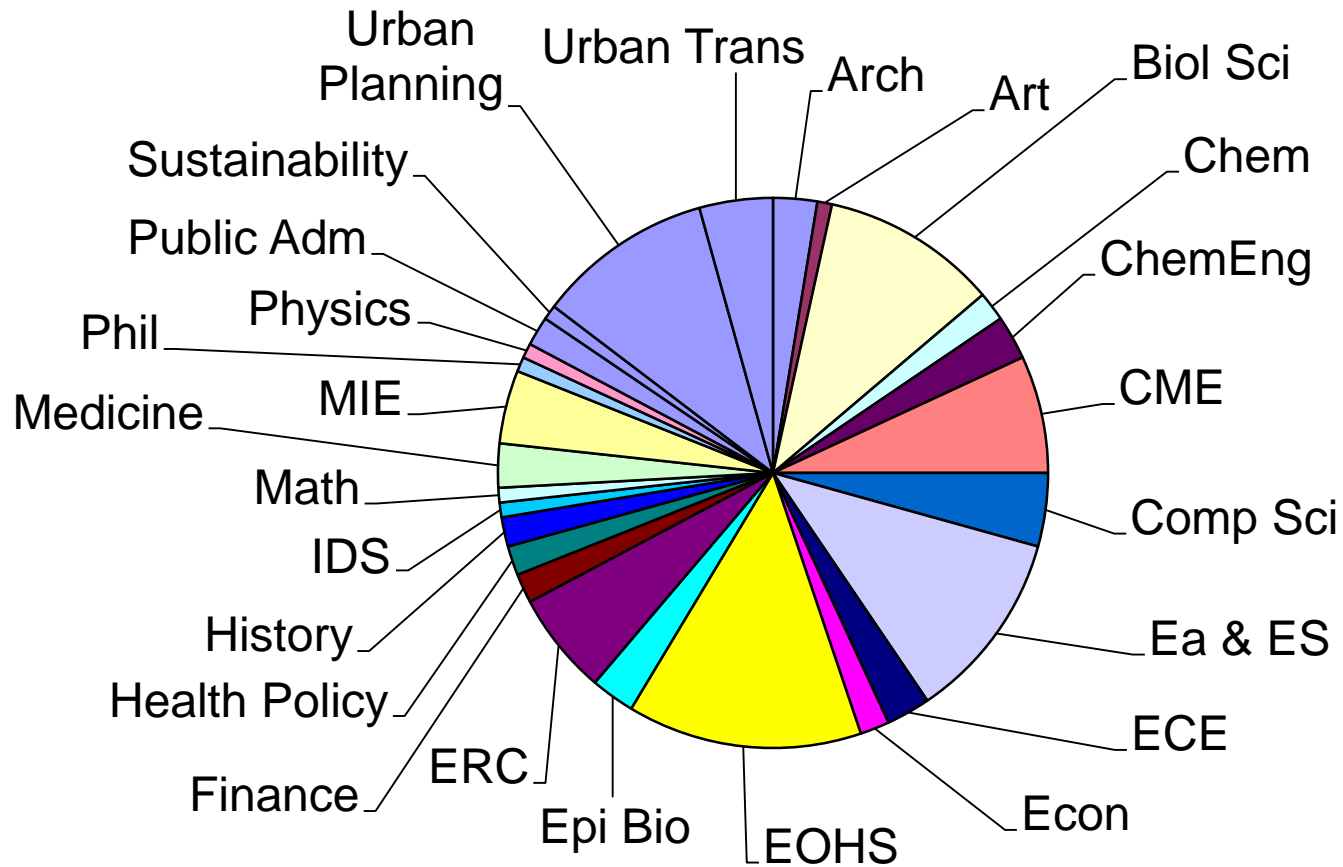
Highlights (continued)

- Ph.D. fellowships (2-2013)
 - Jiehong Guo (Environmental and Occupational Health Sciences)
 - Daniel Milz (Urban Planning and Policy)
- BURST Symposium
- Seminars:
 - Dr. John Krummel, Argonne National Laboratory
 - “Measuring and Forecasting: Emerging Trends in Environmental Data Collection, Analysis and Modeling”
 - Dr. Harry Saunders, Decision Processes, Inc.
 - “Sustainability and the Rebound Effect”
 - Dr. Brenda Ekwurzel, Union of Concerned Scientists
 - “Cooler Smarter: Practical Steps for Low-Carbon Living”

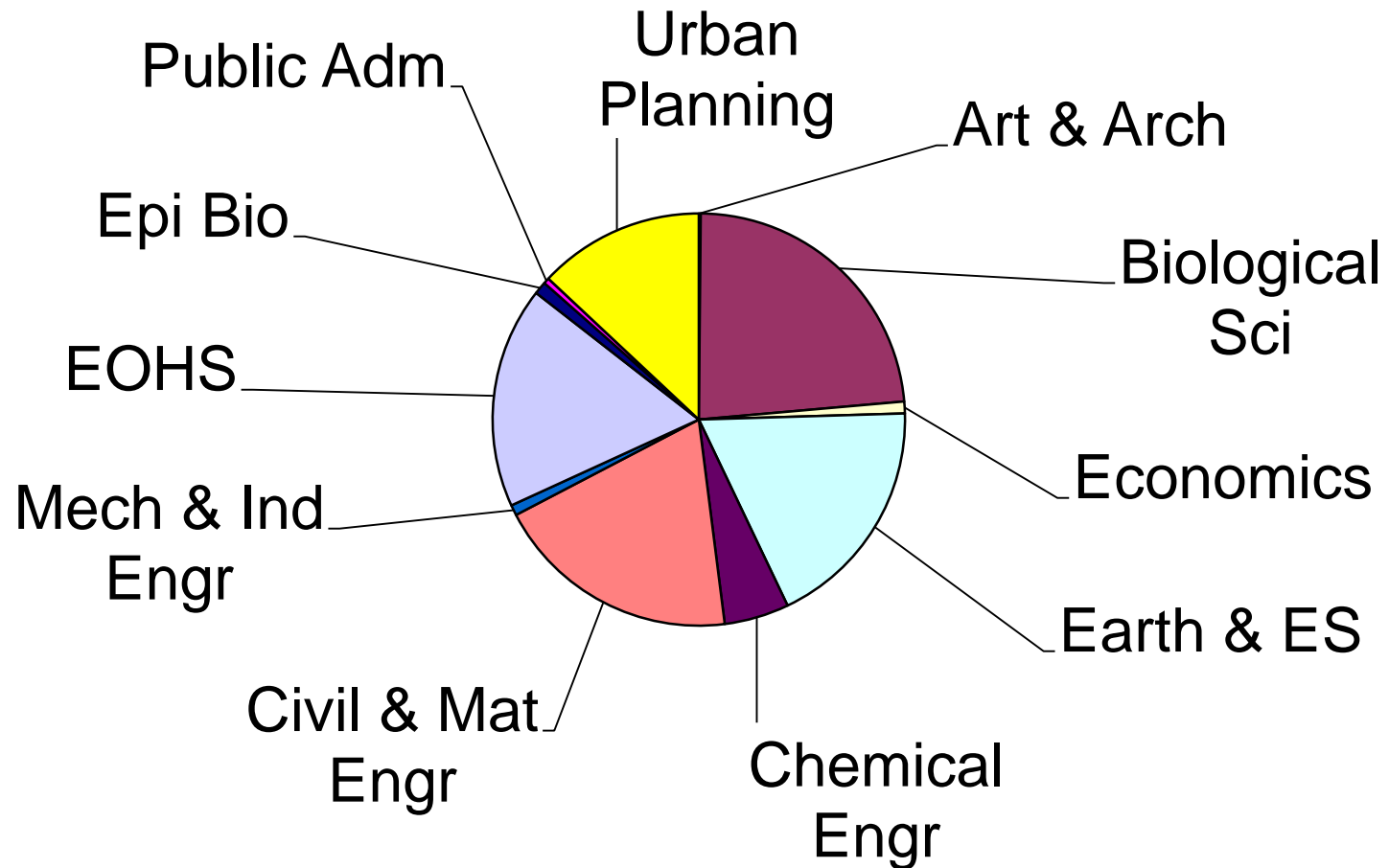
Joint IESP Faculty

Name	Depart/Col	Expertise	Rank	Percent	Appointed
Kathryn Nagy	EaES/LAS	Env. Geochemistry	Professor	40	2002
Nurtan Esmen	EOHS/SPH	Risk Assess/ Env. Decision	Professor Emeritus	37	2003
Jane Lin	CME/COE	Transportation Systems/Air Quality	Associate Professor	43	2003
Moira Zellner	UPP/CUPPA	Public Policy/ Sustainability of Natural Resources	Associate Professor	50	2006
David Wise	Biological Sci/LAS	Ecosystem Processes	Professor	50	2006
Emily Minor	Biological Sci/LAS	Landscape Ecology	Assistant Professor	50	2008
Samuel Dorevitch	EOHS/SPH	Urban Health	Associate Professor	50	2010
Ning Ai	UPP/CUPPA	Urban Sustainability	Assistant Professor	50	2011
Sybil Derrible	CME/COE	Urban Infrastructure Systems	Assistant Professor	50	2012

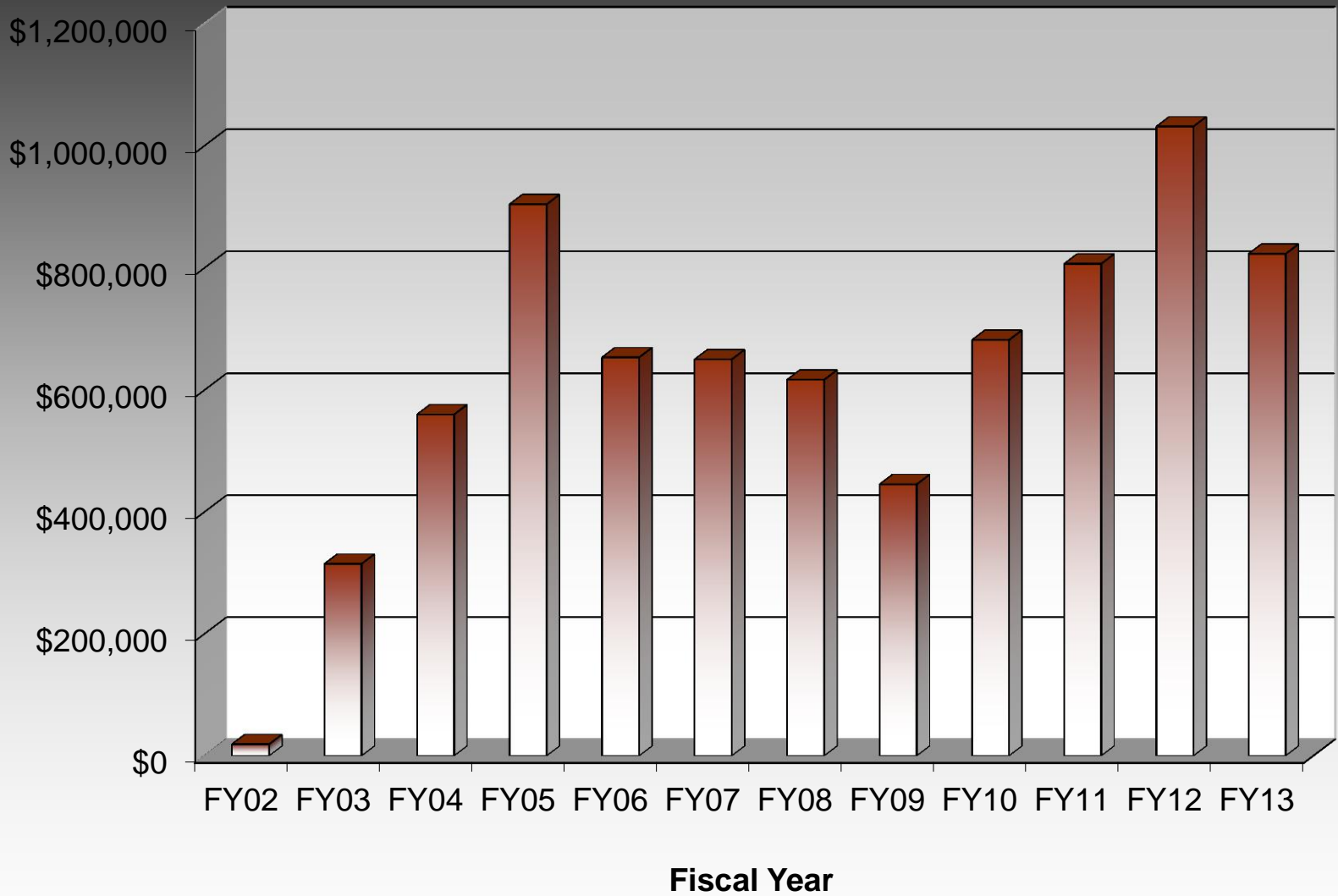
Current Distribution of Faculty with Environmental Interests by Department (~116 total)



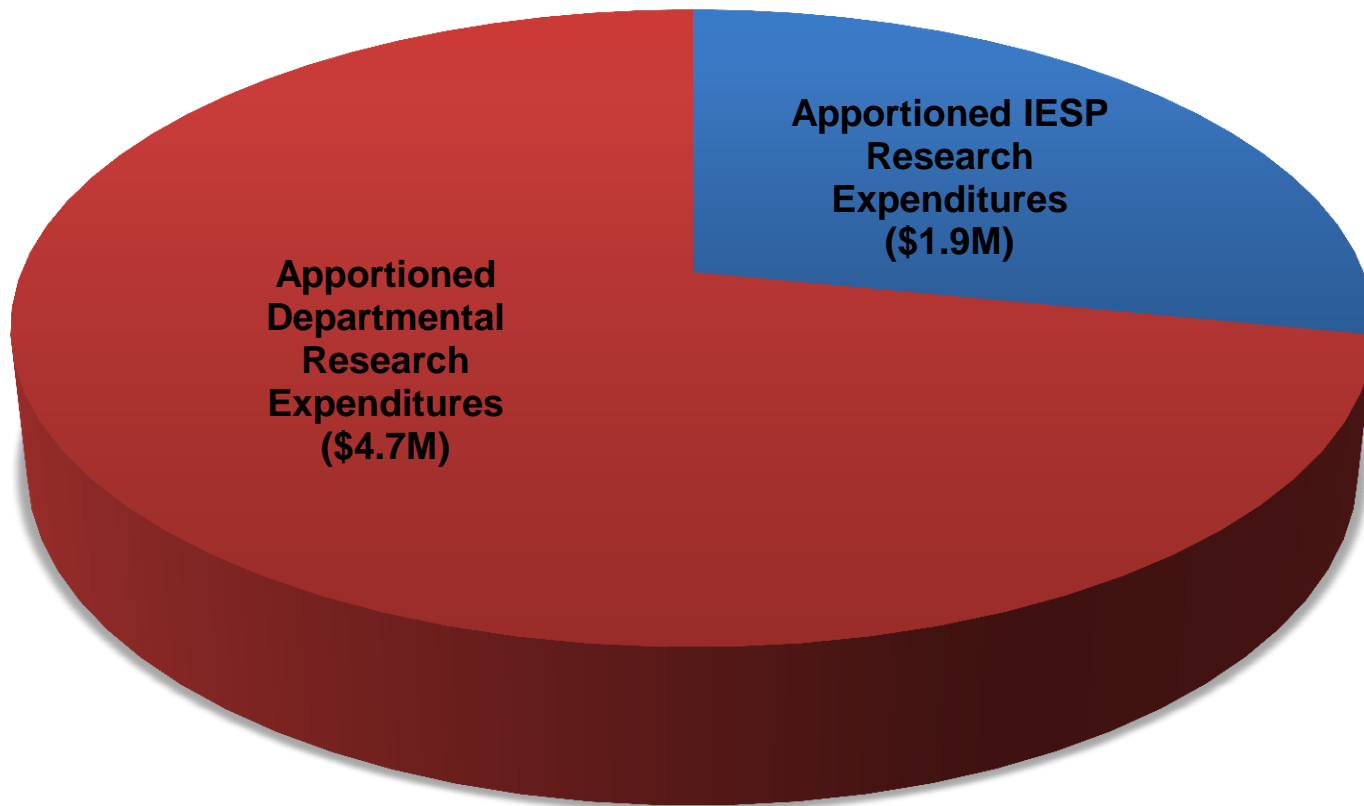
Cumulative IESP Dollar Allocations by Department



IESP Research Expenditures



IESP Research Expenditures FY 2012-2013 (\$6.6M)



Research

- 29 current projects with 59 PIs + Co-PIs across 25 units
- New Research Initiatives (sample)
 - BRACE: Building Resilience Against Climate Effects in Illinois, Sponsor: CDC (**Dorevitch**/Forst/Ibrahim/Turnock)
 - From Farm Management to Governance of Landscapes: Climate, and Land Use Decisions in the Argentine Pampas, Sponsor: NSF (**Zellner**)
 - NCCLCs: Material Life Cycle of Nanomaterials (LCNano), Sponsor: EPA/NSF via Arizona State University (**Theis**)
 - CyberSEES: Feasibility of a Data Integration Framework for Urban Metabolism, Sponsor: NSF (Cruz/**Ai/Derrible/Dorevitch/Theis**)
 - Chicago Wilderness Congress 2014, Sponsor: Chicago Wilderness Trust (**Wise**)
 - Assessing Sustainable Freight Policies Using Microsimulation Approach, Sponsor: National Center for Freight and Infrastructure Research (Mohammadian/**Derrible**/Kawamura/Bo)
 - Workshops on Big Data and Urban Informatics: e-Infrastructure for Social Science Research on Sustainable Urban Systems, Sponsor: NSF (Thakuria/Tilahun/**Zellner**)

New Initiatives

- Building Urban Resilience and Sustainability (BURST)
 - Office of the Vice Chancellor for Research
 - <http://www.burst.uic.edu/>
- UIC Sustainability Strategic Thinking
 - Office of Sustainability
 - <http://www.uic.edu/sustainability/thinking/>
- Argonne National Laboratory—Environmental Science Division
 - <http://www.evs.anl.gov/>
- Prairie Research Institute
 - <http://www.prairie.illinois.edu/about-inrs.shtml>

Urban-related Environmental Milestones at UIC

- 1978 Voorhees Center for Neighborhood and Community Improvement
- 1979 Urban Transportation Center
- 1982 UIC formally established
- 1995 CUPPA, Great Cities Institute
- 1999 Institute for Environmental Science and Policy
- 2002 Environmental Manufacturing Management IGERT
- 2006 Landscape Ecological Anthropogenic Processes (LEAP) IGERT
- 2006 Computational Transportation Science IGERT
- 2007 Energy Engineering program (MIE)
- 2011 UIC Energy Initiative
- 2012 Environmental Planning and Policy program (CUPPA)
- 2012 BRACE-Illinois (EOHS)
- 2012 BURST Initiative

IESP Strategic Planning 2014--Charge to EAB

- Overall goal: to recommend a roadmap for IESP that incorporates current and future priorities, and will serve as a guide for decisions on operational and strategic allocations of resources.

Tasks:

- Review IESP's mission statement
 - Evaluate the extent to which it has been fulfilled
 - Suggest modifications
- Review IESP's structure and model
 - Should the current model be changed to a different one?
 - Should new positions be added, others eliminated/modified?
 - Is the current structure and model adaptive to changing needs?
- Review IESP's programs
 - Evaluate their effectiveness
 - What new types of programs might be given consideration?
 - Are there new strategic partnerships that might be formed?
- Review IESP's budget
 - Is it adequate to meet the mission of the institute?
 - Should priorities be shifted and/or allocations be changed?
 - Are there new sources of revenue that should be pursued?

Strategic Planning Timeline

- September 25, 2013
Initial discussions, preliminary thoughts/recommendations
- October 31, 2013
Review of IBHE application (2007)
Identification of Possible Strategic Opportunities, Challenges,
and Priorities
- November 30, 2013
Discussion with IESP faculty and staff on preliminary findings
- January 31, 2014
Finalization of Recommendations
Presentation to VCR

UIC Centers/Institutes Briefings

EAB Meeting 2013

- Great Cities Institute (Teresa Cordova)
 - <http://www.uic.edu/cuppa/gci/>
- Institute for the Humanities (Susan Levine)
 - <http://huminst.las.uic.edu/>
- Energy Resources Center (John Cuttica)
 - <http://www.erc.uic.edu/>
- Urban Transportation Center (P.S. Sriraj)
 - <http://www.utc.uic.edu/>
- Center for Urban Economic Development (Howard Wial)
 - <http://www.urbaneconomy.org/>
- Center for Advanced Design, Research, and Exploration (Melissa Naiman)
 - <http://tigger.uic.edu/depts/ovcr/cadre/>