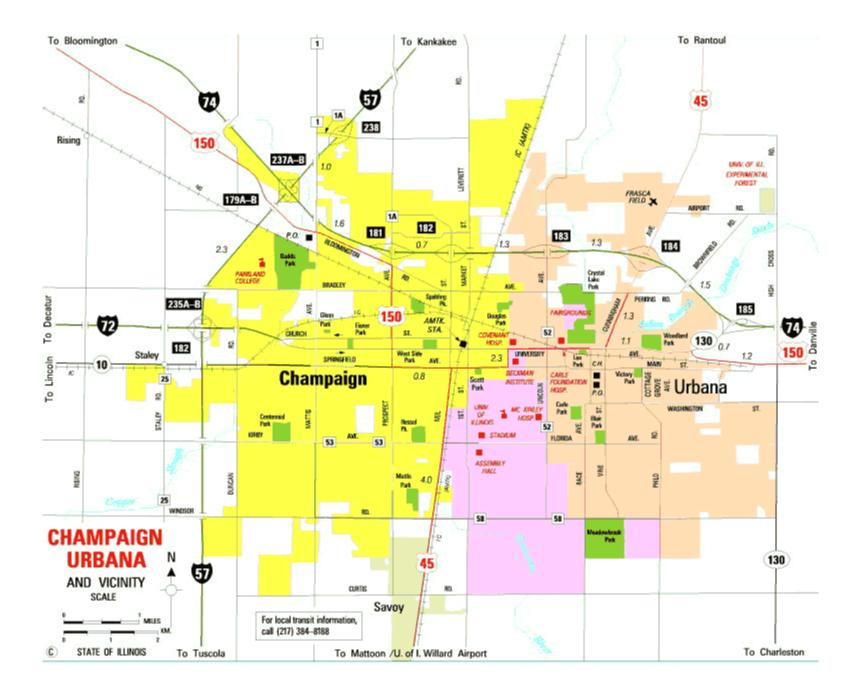
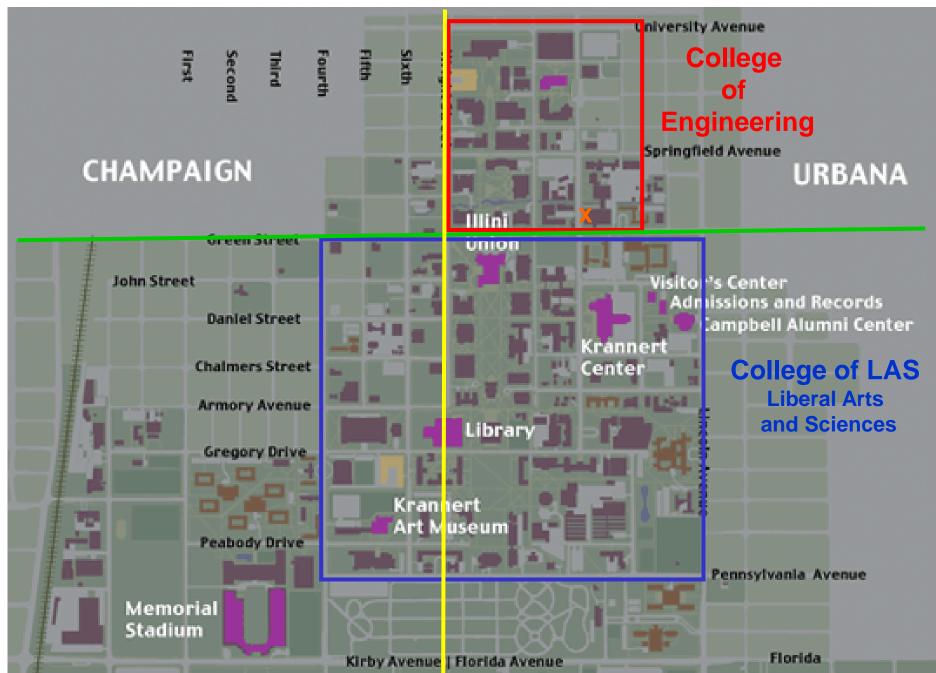


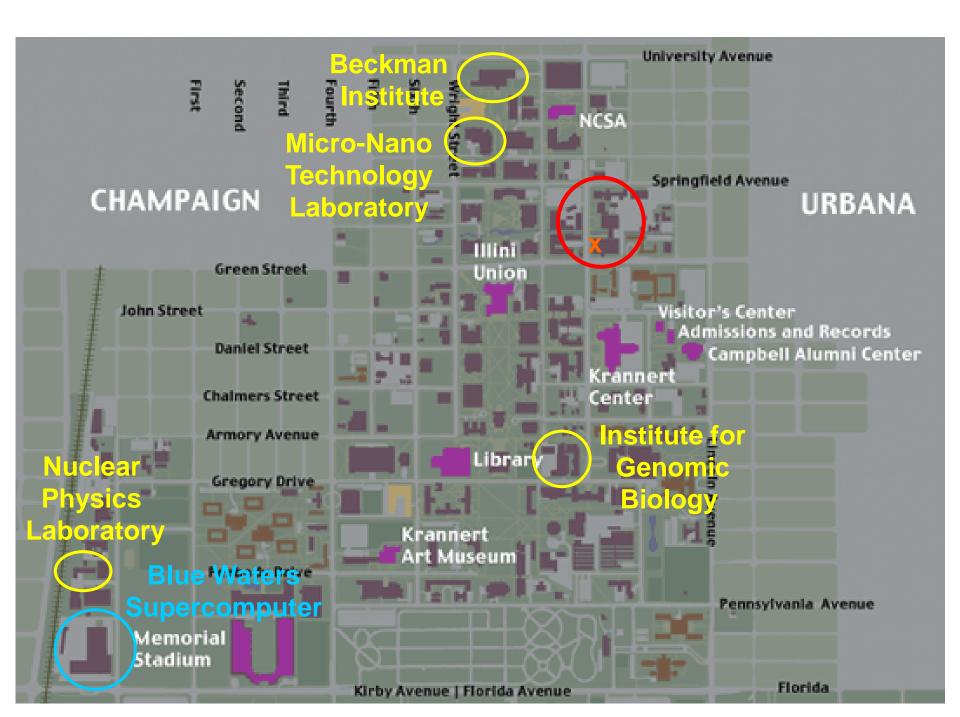
Physics 110: "your physics career"

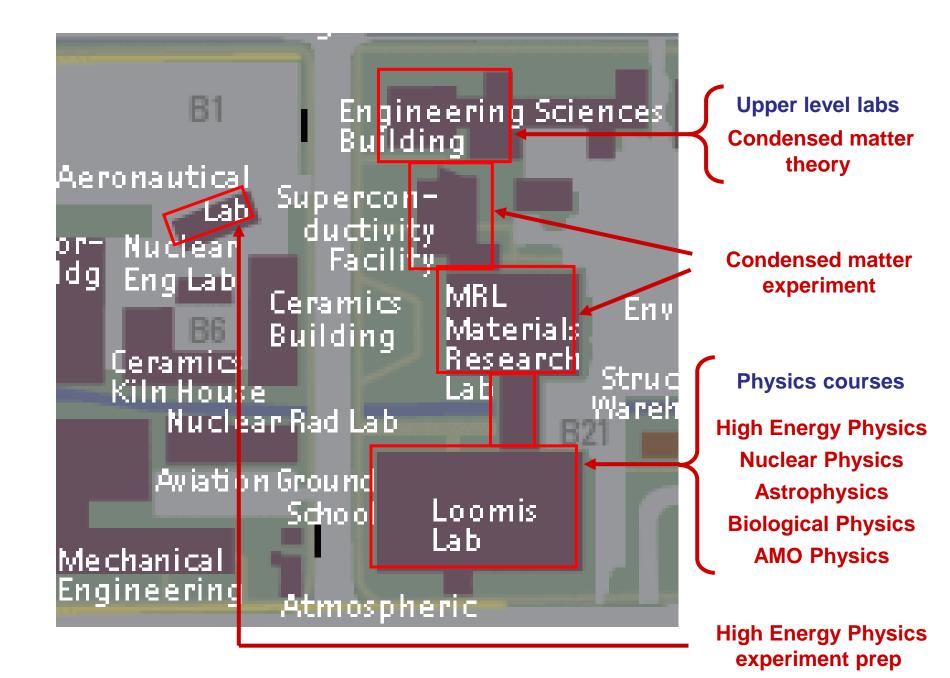
Fall 2013



The University of Illinois at Urbana-Champaign









- 55 Active faculty (tenure/tenure-track) + 5 new hires coming
- ~10 Research faculty and instructors
- ~30 Emeritus Faculty
- ~50 Postdocs
 - ~40 Staff members
 - ~260 Graduate students (~100 Teaching assistants)
 - ~550 Undergraduate Physics majors (from COE and LAS)
 - ~5000 Students taught Physics per semester
 - #2 ranking in Undergraduate Engineering Physics
 - #9 ranking in Physics Graduate Program
 - #2 ranking in Condensed Matter Physics
 - National Academy of Sciences: 6 active + 5 emeritus
 - Nobel Laureate: Tony Leggett
 - Howard Hughes Medical Investigator: Taekjip Ha
 - National Medal of Science: Charlie Slichter
 - Olympic Silver Medalist: Jonathon Kuck
 - ~\$25M per year in research expenditures

Department Highlights

People

Research Programs---- Department of Physics

As a top-10 ranked department, our philosophy is to maintain strength in all major disciplines while growing targeted areas and promoting interdisciplinary programs

Group	Theory	Experiment	TOTAL
Condensed Matter Physics	9	11	20
AMO Physics	0	2	2
Biological Physics	3	4	7
High Energy Physics	3	6	9
Medium Energy Physics	0	5	5
Astrophysics/Cosmology	3	1	4
Cross-Cutting Physics	3	2	5
Physics Education Research	1	2	3
TOTAL	22	33	55

Advantages of a Large and Broad Program

- 1. Choices --- many courses and research disciplines to consider
- 2. Interactions --- much modern science is at the intersections of traditional disciplines within and beyond Physics *e.g. nanoscience, biophysics, quantum information ...*
- **3. Resources** --- access to state-of-the-art laboratory infrastructure *e.g. Physics, MRL, NCSA, IGB,, MNTL, BI, ...*
- **4. Relevance** --- ability to address major societal issues *e.g. energy, environment, health, informatics, ...*

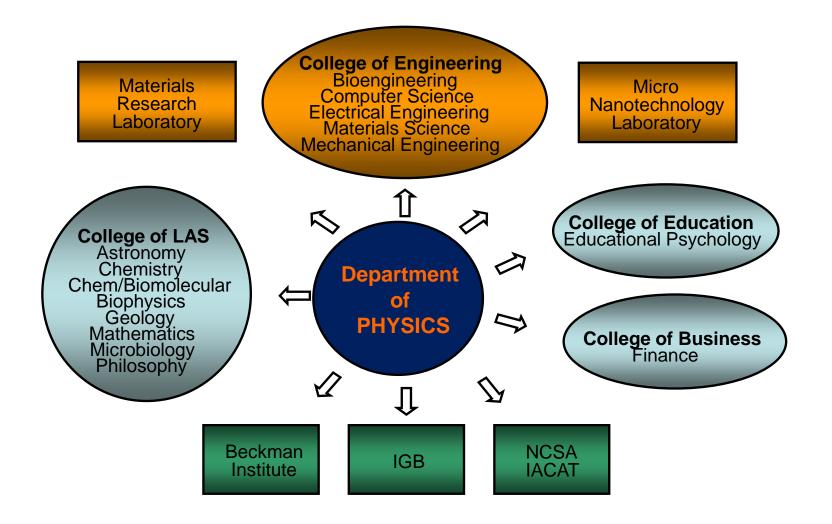
The Strategic Plan of the University of Illinois at Urbana-Champaign Core agenda: Sustain creativity and discovery New programs: Illinois Informatics Initiative Integrated Sciences for Health Initiative Illinois Sustainable Energy and the Environment Initiative

Interdisciplinary Research-- Department of Physics

- Materials Research Laboratory (MRL)
- MicroNanoTechnology Laboratory (MNTL)
- Beckman Institute (BI)
- Institute for Genomic Biology (IGB)
- National Center for Supercomputing Applications (NCSA)
- Institute for Condensed Matter Theory (ICMT)
- Center for the Physics of Living Cells (CPLC)

The role of Physics at The University of Illinois

Physics couples fundamental and applied science, bridges NORTH and SOUTH of Green Street, and anchors research centers on campus



Ongoing Department Projects (relevant to Physics Majors)

Enhancement to introductory course content and delivery Enhancements to undergraduate advising/mentoring Enhancements to undergraduate research (senior thesis, REU, research in labs) Enhancements to upper-level laboratory courses --- 5th and 6th floor ESB Creation of new courses for computation

Lobby renovation --- Loomis 1st floor Undergraduate Lounge --- 2nd floor LLP (275) Offices for Physics Society, Society for Women in Physics, and Physics Van Upgrades to classroom quality and technology --- student fees *major construction in Spring and Summer 2014*

Physics Illinois Partnership Program --- recruiting and outreach Physics Ambassador Program --- recruiting

Department of Physics University of Illinois at Urbana-Champaign

Department Head Associate Head for Undergraduate Programs Associate Head for Graduate Programs Dale Van Harlingen *(211 Loomis)* Kevin Pitts *(231 Loomis)* Lance Cooper *(227 Loomis)*

Undergraduate Office (231 Loomis) Chief Advisor: College of Engineering Chief Advisor: College of Liberal Arts and Sciences Physics Teaching Advisor: Recruiting and Outreach Coordinator: Director of Course Delivery: Course Operations Manager: Communication Coordinator: Advancement Coordinator: Director of External Affairs and Special Projects

Kate Shunk and Sandra Johnson Alfred Hubler Matthias Grosse Perdekamp Mats Selen Toni Pitts **Rebecca** Wiltfong Elaine Schulte Siv Schwink Erin Kirby Celia Elliott

Department of Physics Undergraduate Student Network

