

A grayscale image of the Purdue University clock tower, featuring a prominent clock face and a pointed roof, serving as a background for the text.

PURDUE
UNIVERSITY

FAST Presentation
Mark J. T. Smith
November 8, 2011

The Graduate School
Advancing to a Higher Degree

Introductions

The Graduate School and
graduate education

A professor's role in graduate
education

Success in the academy

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The Graduate School and graduate education

A professor's role in graduate education

Success in the academy

Purdue Campuses Main Campus in West Lafayette



Purdue Campuses Fort Wayne Campus

718 grad students
58% women
12% minority
5.2% Black
2.5% Asian
2.8% Hispanic



Purdue Campuses North Central Campus

78 Grad students

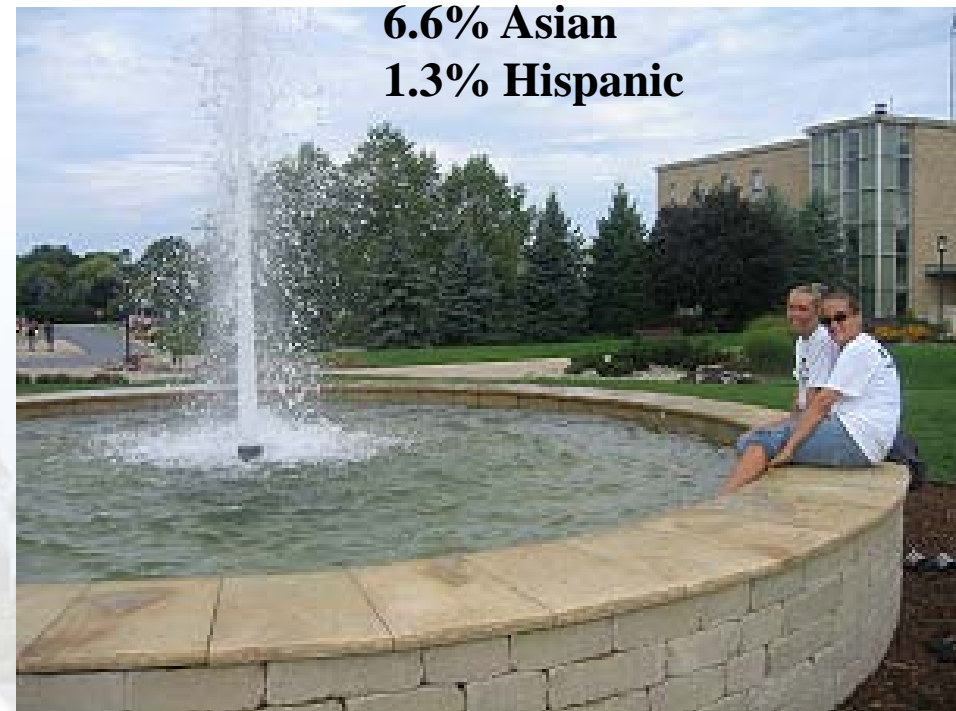
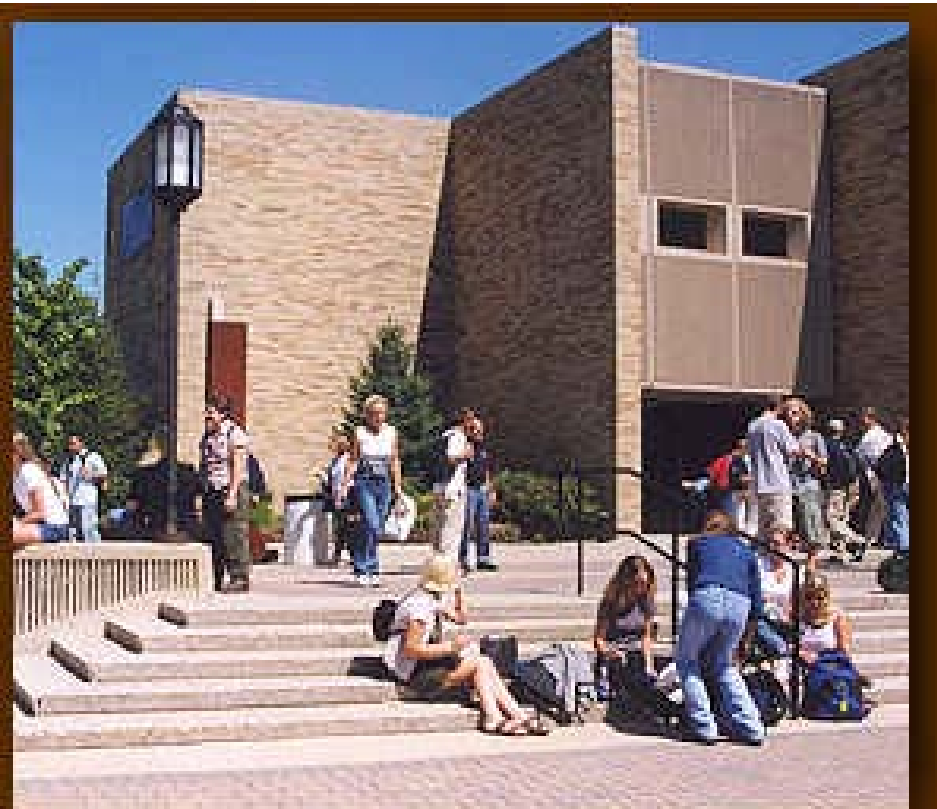
56% women

9.2% minority

1.3% Black

6.6% Asian

1.3% Hispanic



Purdue Campuses Calumet Campus

1147 Grad Students
58.8% women
23.4% minority
10.5% Black
2.7% Asian
8.7% Hispanic



Indianapolis Campus (IUPUI)

634 Grad Students
79% MS
21% PhDs
37% women
3.3% Black
5.5% Asian
2.8% Hispanic



About the Graduate School?

- All degrees awarded through the Graduate Schools.
- The GEA and Graduate Council provide input.
- Graduate Schools of America are well organized. CGS, MAGS (regional), and AAU AGS.
- Midwest schools are well organized: CIC

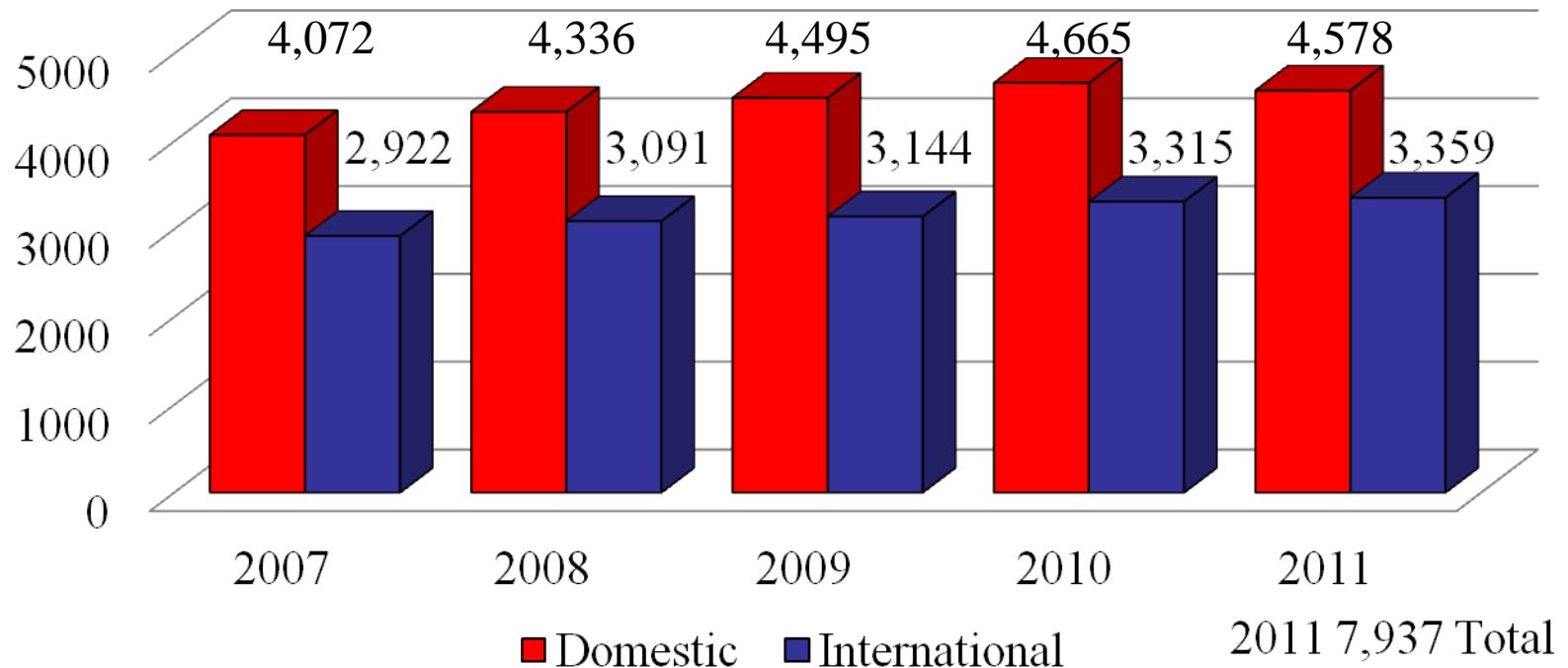
A Typical Year in the Grad School

- Number of applications
 - 12,050 international
 - 5,226 domestic
- Number of admissions
 - 2,343 international
 - 2,411 domestic
- Number of Masters graduates
 - 1,594
- Number of Doctoral graduates
 - 689
- **Est. 1929, Conferred 66k+ MS, 23k+ PhDs**

Purdue West Lafayette

Doctoral 4,379, MS 3,176. Minority 18.3%, Women 37.5%

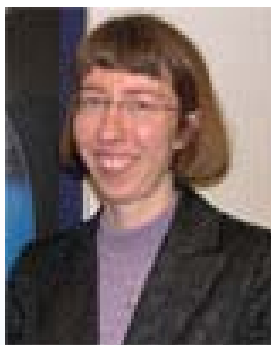
Graduate School Historical Fall Semester Enrollment



RECRUITMENT SERVICES

Janet Beagle

Associate Director of
Recruitment Services
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6-3310



Jonathan Davidson

Marketing and
Communications Manager
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Chris Fugate

Administrative Assistant
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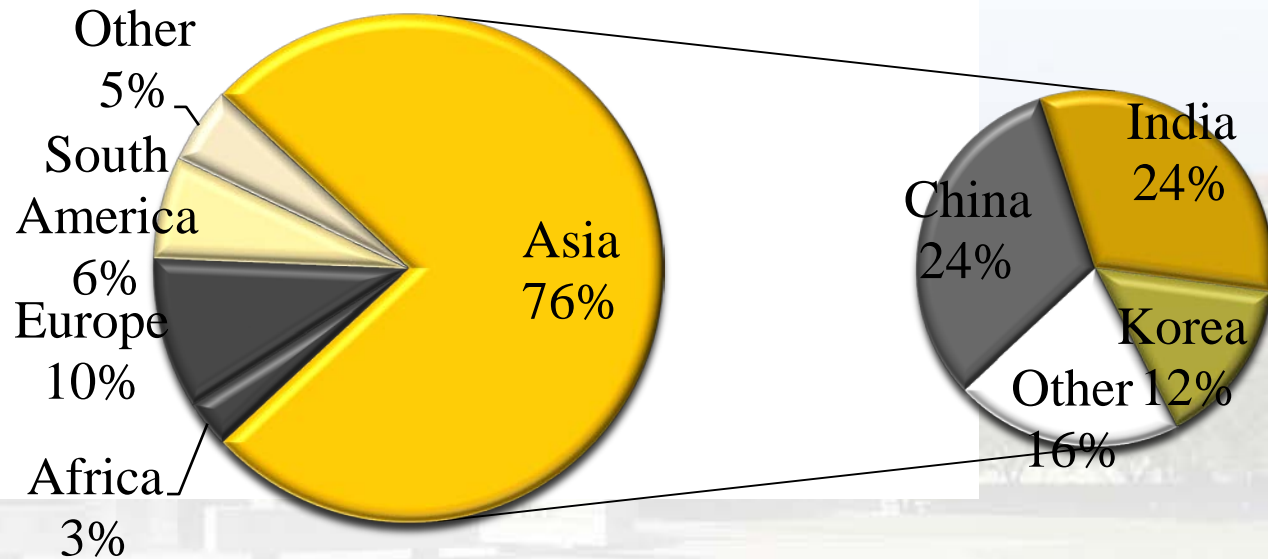
Amy Tevault

Graduate Assistant

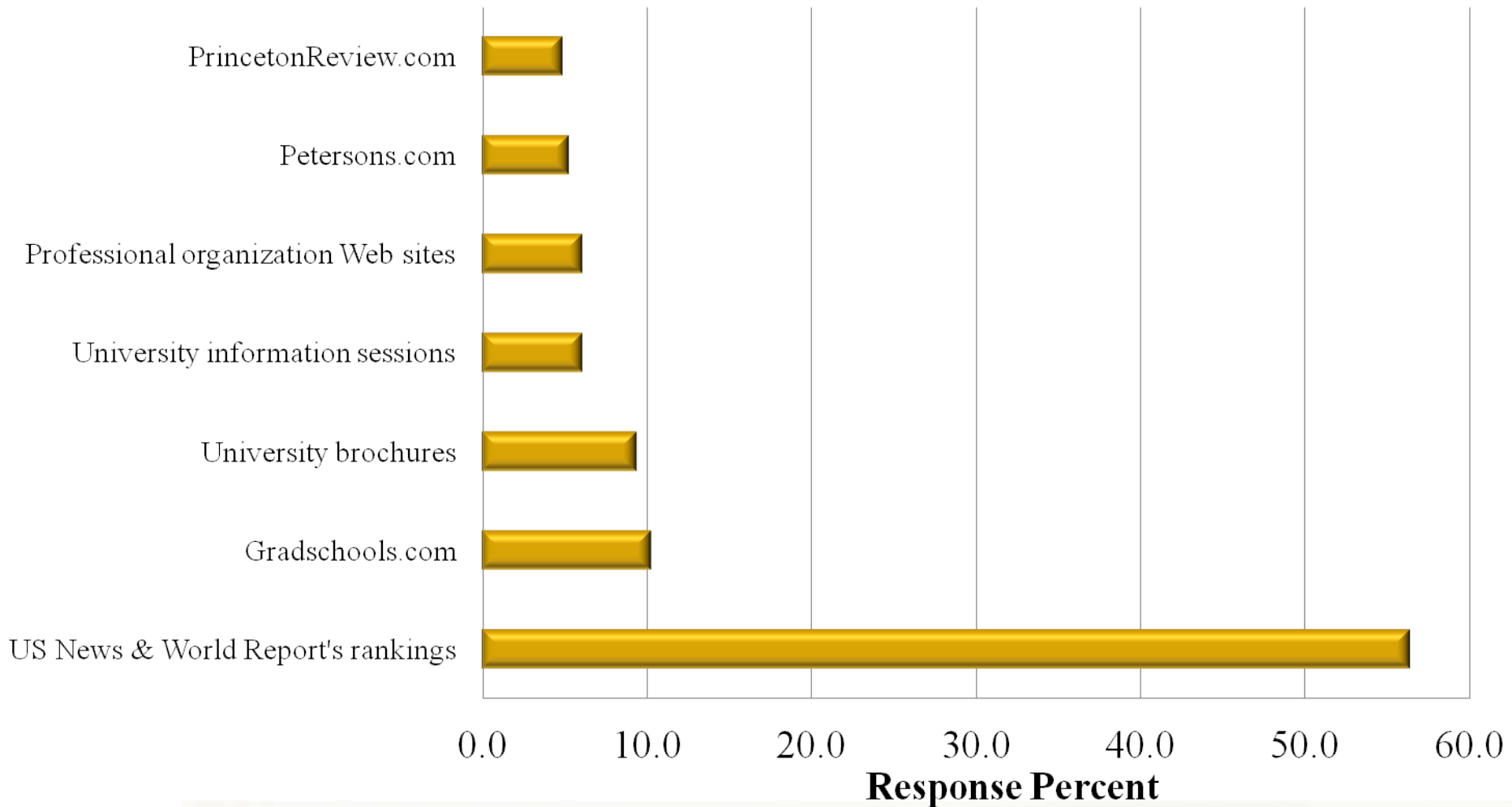
www.gradschool.purdue.edu/recruitment/index.cfm

Recruitment Services

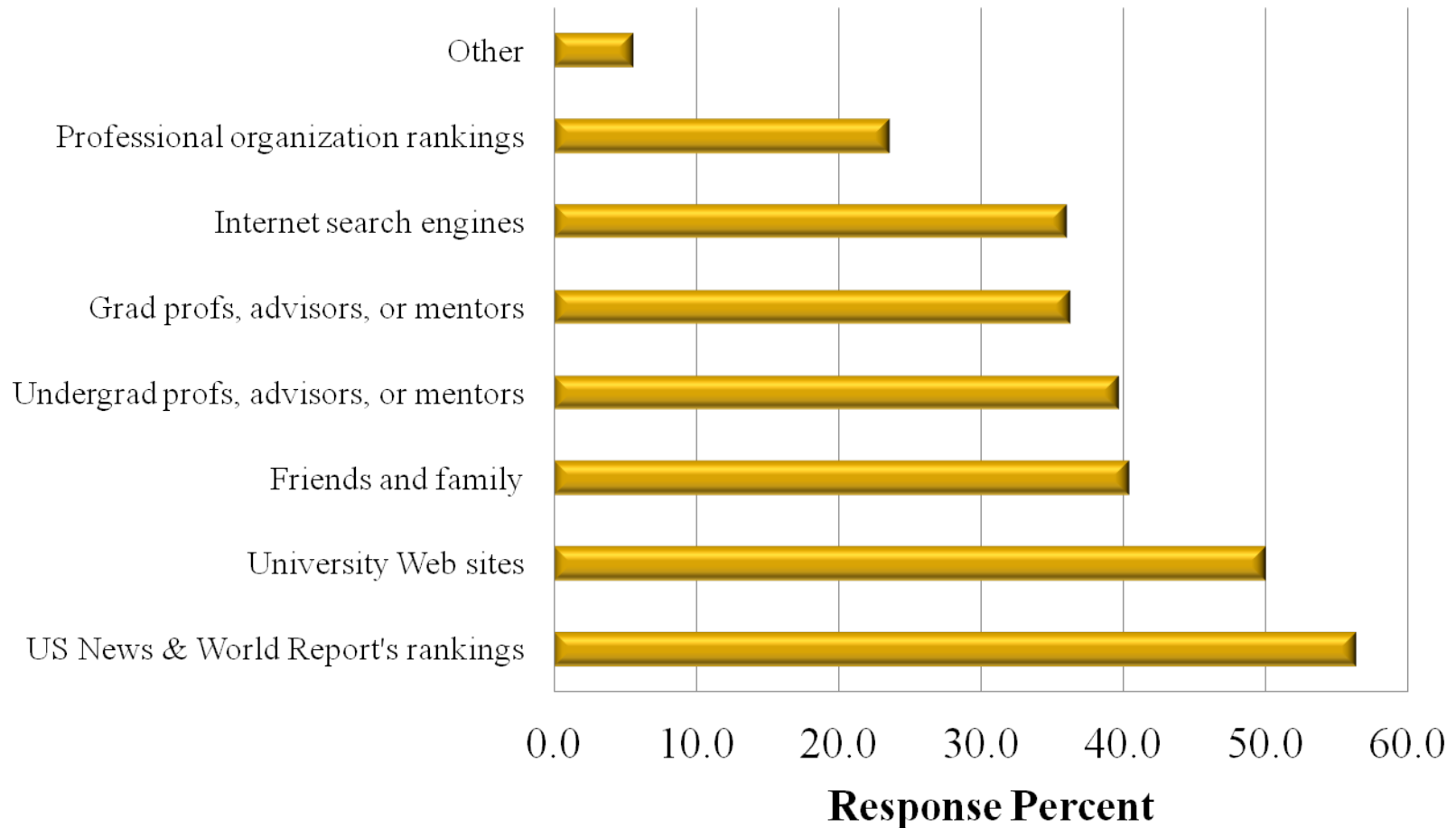
- Prospective student Web page maintenance, including cost of living comparison
- Materials
- Calendar,
- Reference guide
- Recruiting visits
- Admitted student survey



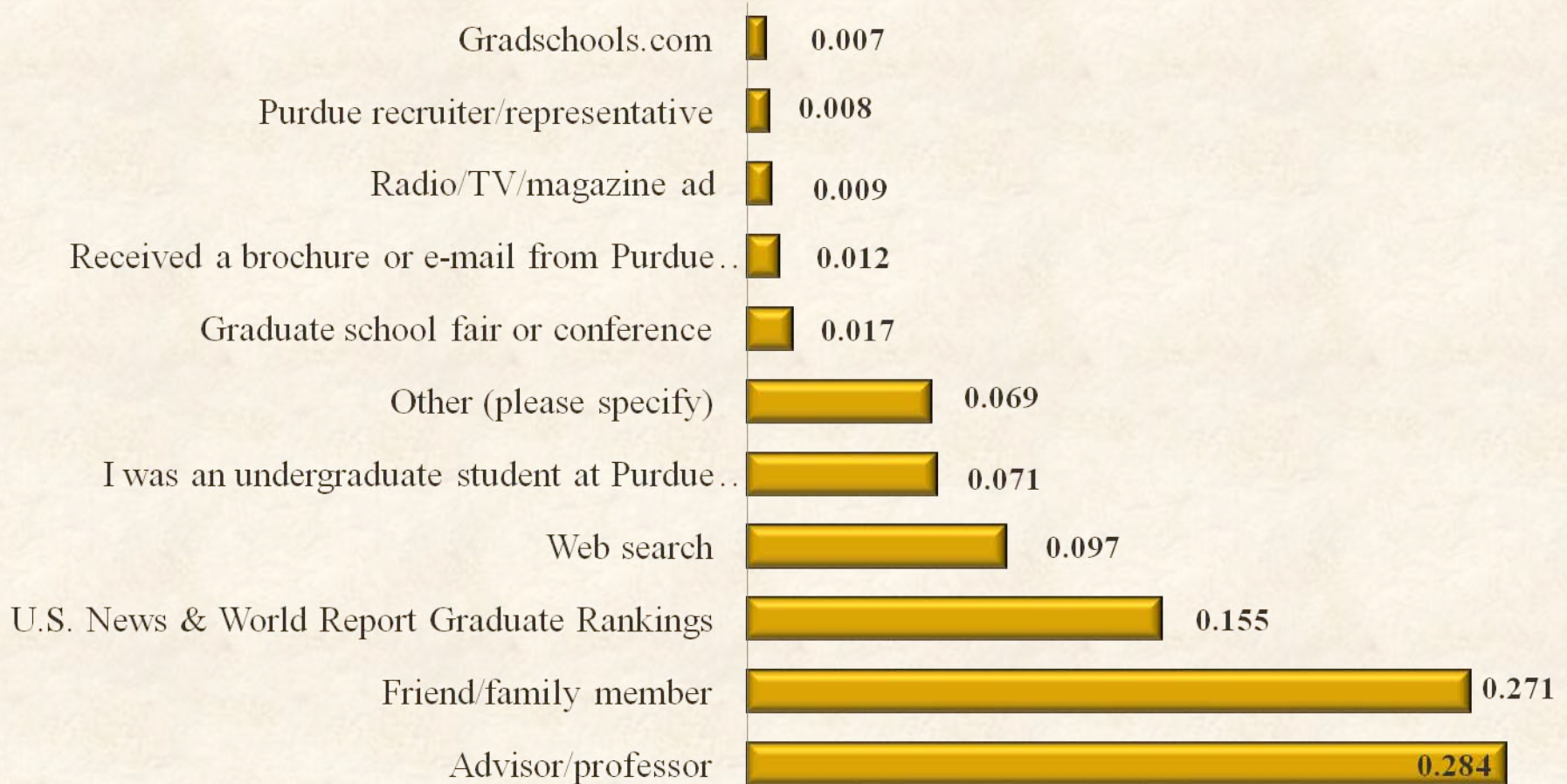
Primary Information Sources (a)



Primary Information Sources (b)



How did you FIRST hear about graduate studies at Purdue University?



Multicultural Programs

Dwight Lewis

Director of Multicultural Programs

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Melissa Danner

Administrative Assistant

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The Graduate School

Advancing to a Higher Degree

The Graduate School recruits at universities and conferences and invites prospective students to campus.



AGEP Office

Kathy Sears



- Recruiting
- Mentoring
- AGEP workshops and conferences
- Book project
- Summer Bridge and SROP

Graduate Fellowships & Professional Development

Cyndi D. Lynch

Director

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Christine Bombyk

Fellowship Assistant

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Your journey to
Career Success...what's your
destination?

<http://www.gradschool.purdue.edu/development/>

Professional Development Workshops and Seminars

- Research conduct and methodology
- Networking skills
- Ethics
- Etiquette
- Teamwork
- Leadership
- Grant writing and securing external fellowships
- Future faculty preparation
- Interview skills, and so on.

Responsible Conduct of Research Graduate Student Learning Outcomes Assessment (HLC/NCA Accreditation)

Linda Mason

Associate Dean

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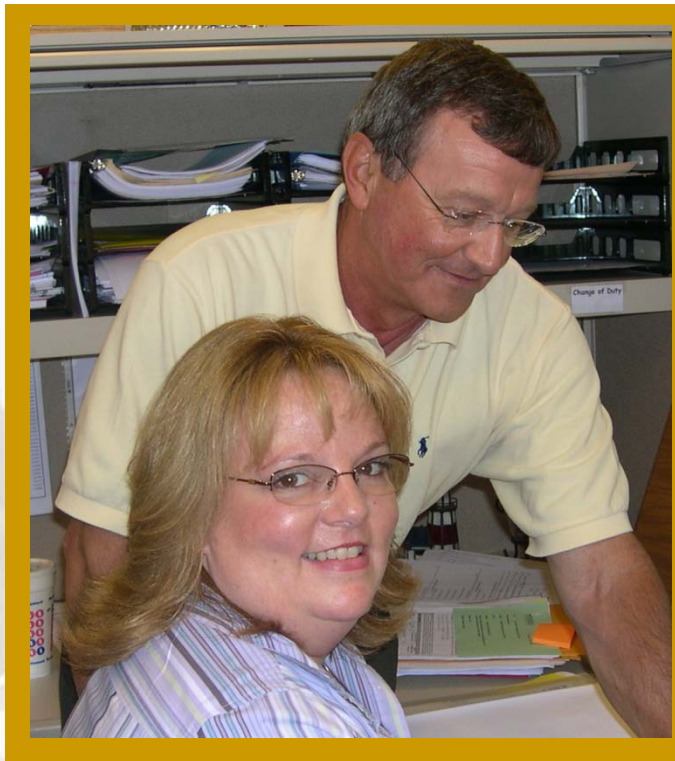
RCR Workshops

Academic Year 2011 - 2012

- **Human Subjects**
- **Research Integrity**
- **Authorship & Scholarly Publications**
- **Data Management**

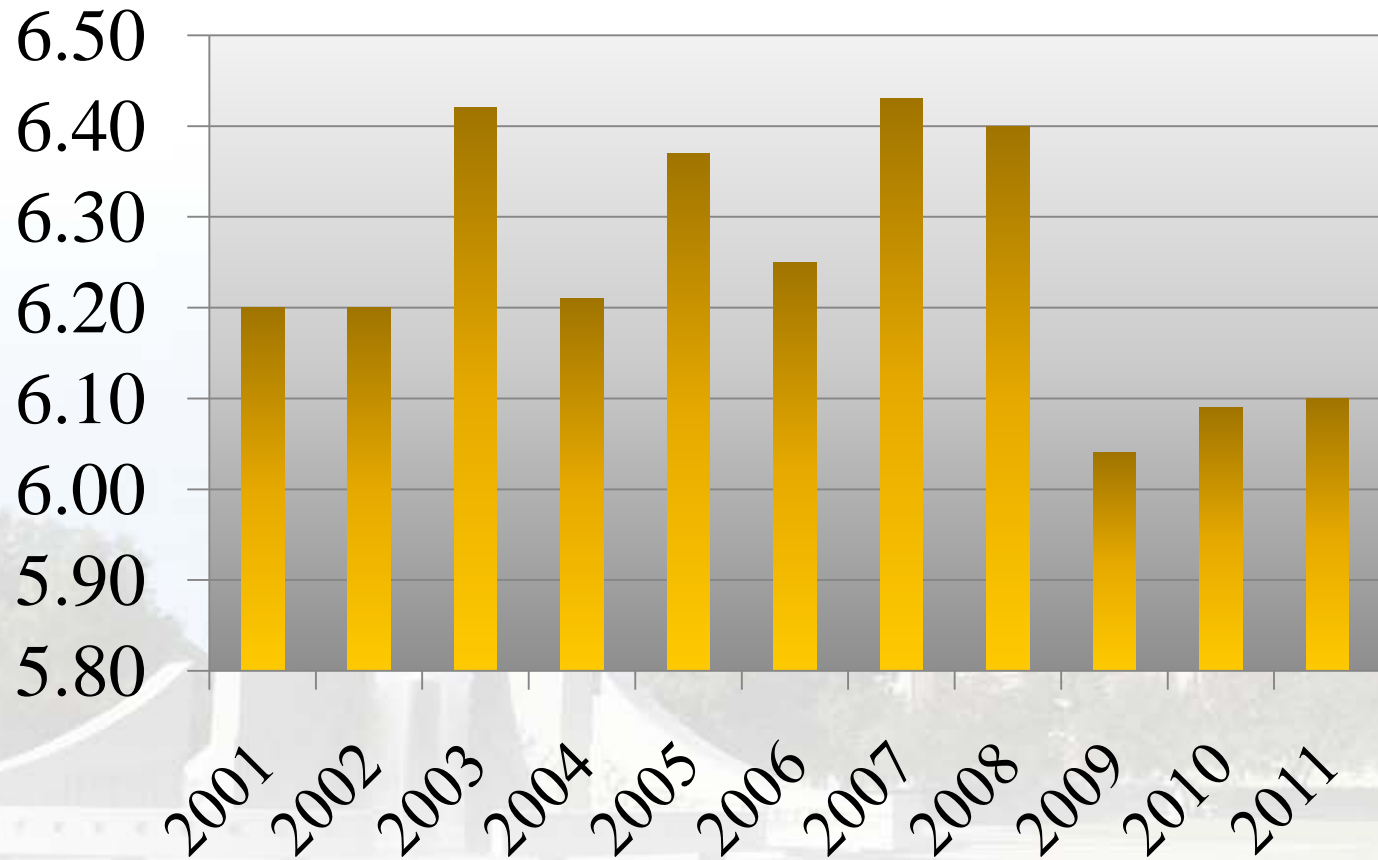
Workshops are repeated each semester

New Degrees and Courses Graduate Faculty Appointments

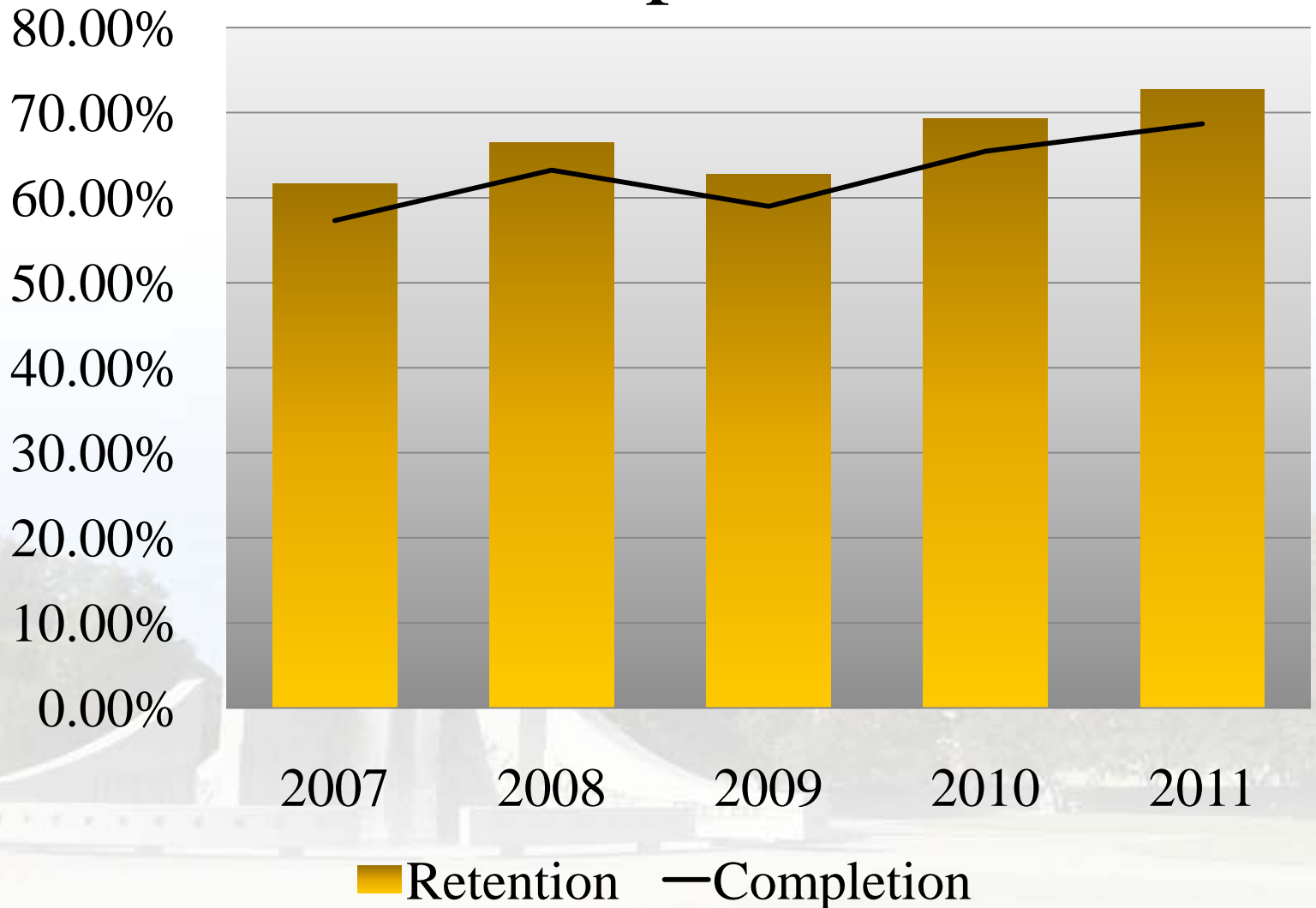


Phillip E. Pope
Senior Associate Dean and
Professor of
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PhD Time to Degree

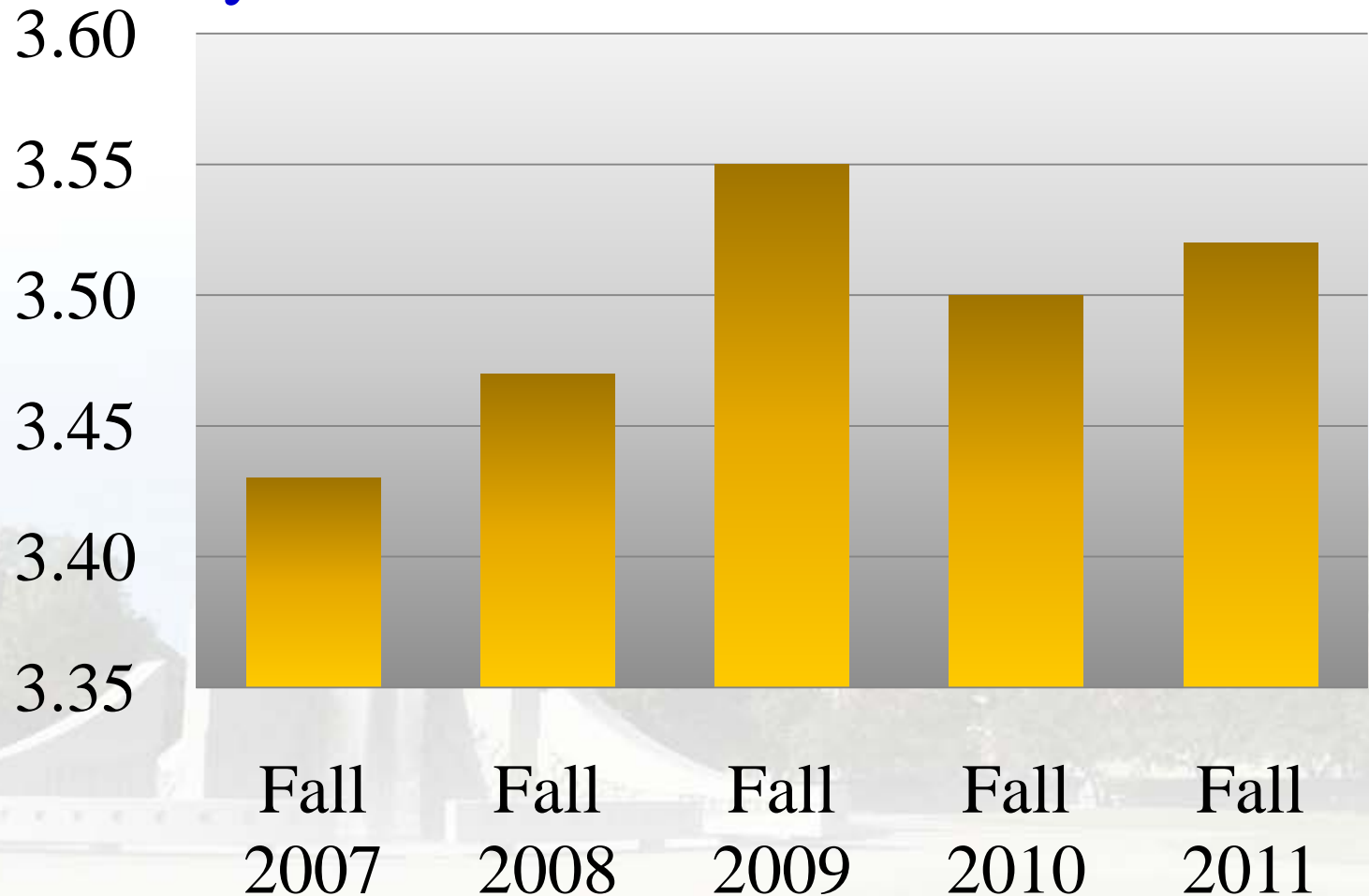


PhD completion



Incoming student GPA

What do you look for in new students?



Peer Ombudsman Program



Joy Beckett, Masaki Kakoi, Erica Morin,
Reazur Rahman, Assoc. Dean Tom Atkinson

Office of Interdisciplinary Graduate Programs (OIGP)



Jon A. Story

Senior Associate Dean

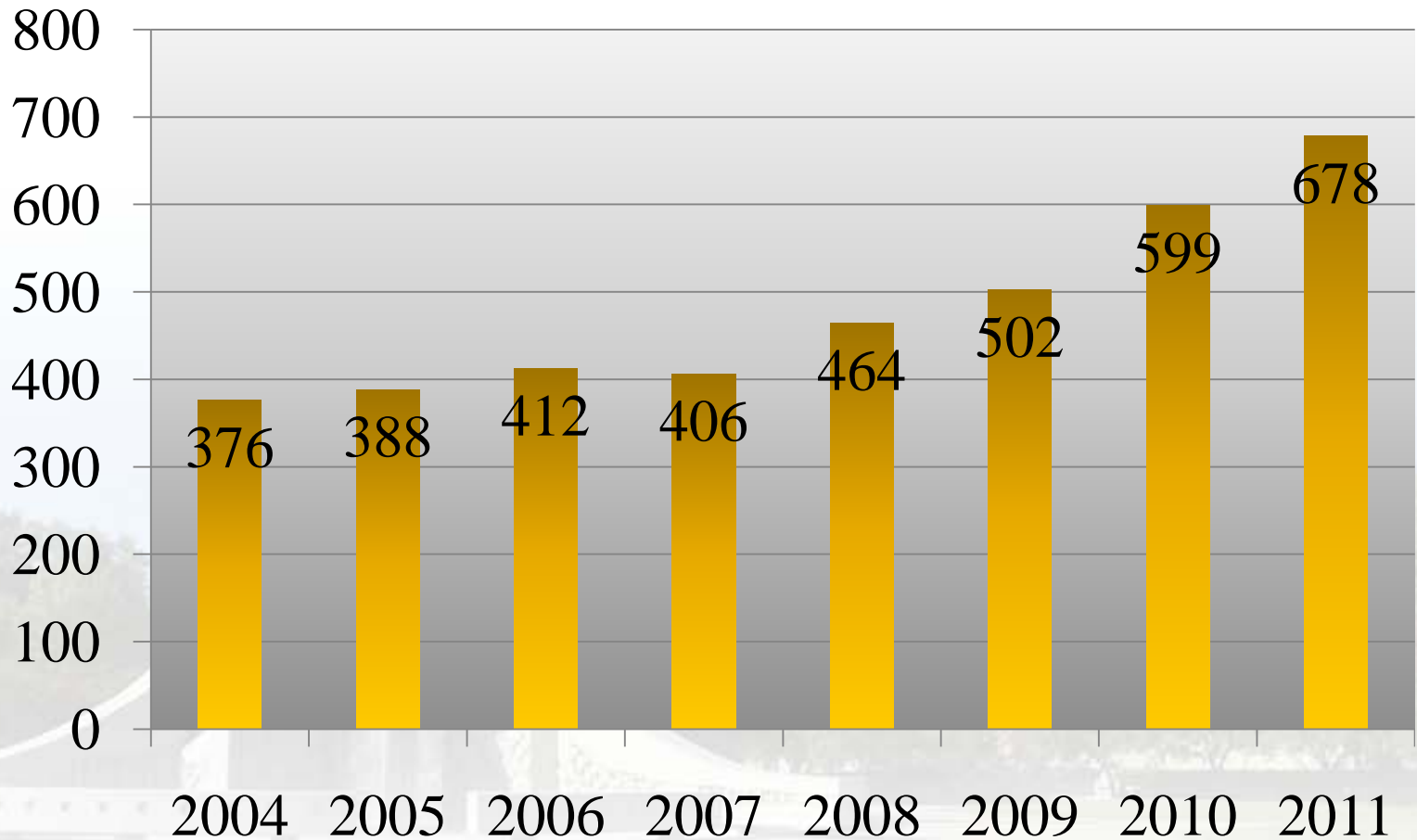
Professor of Nutritional

Physiology

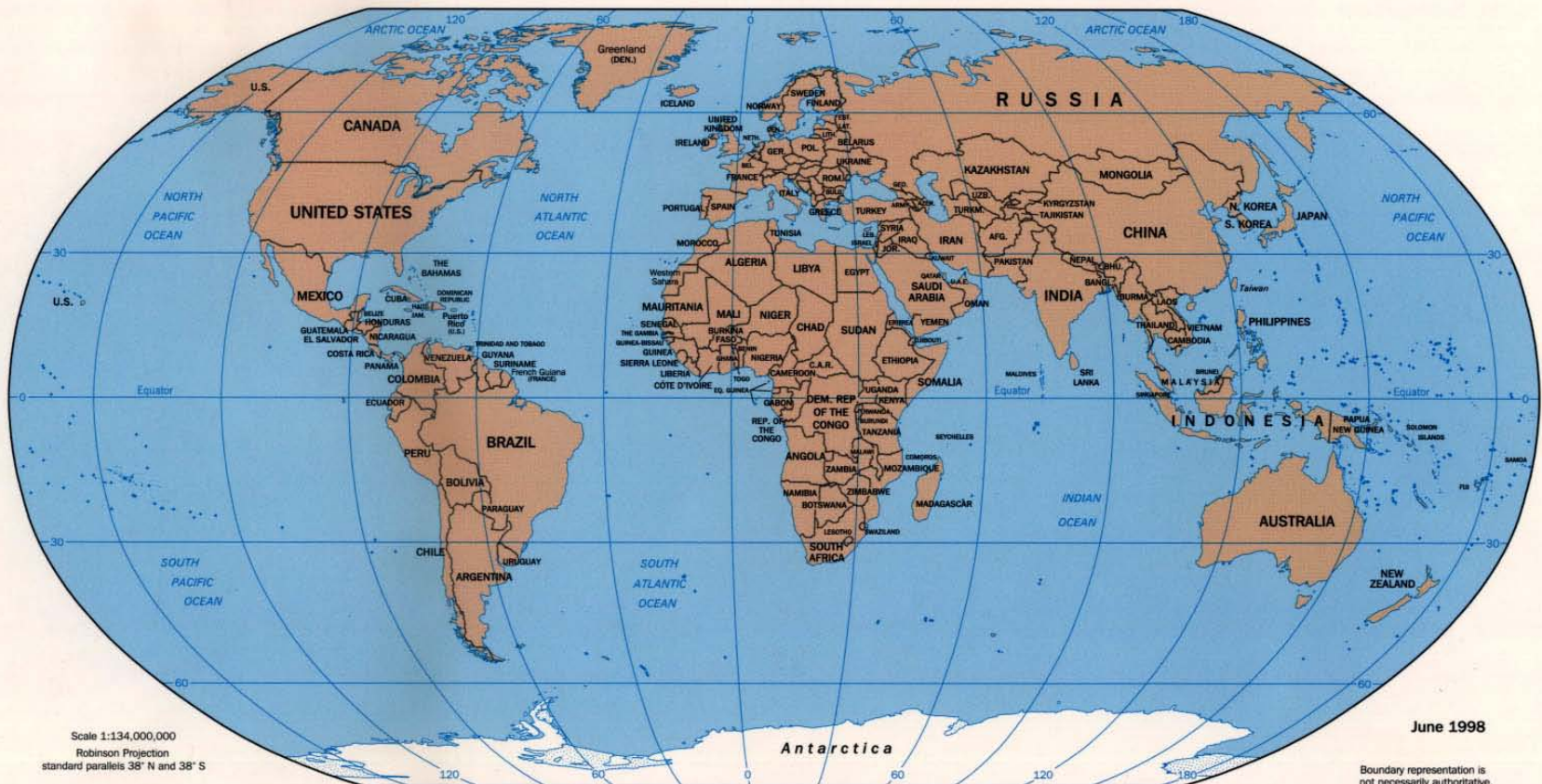
jastory@purdue.edu

49-67352

Interdisciplinary program enrollment



Goal of Impact and Global Exposure



June 1998

Boundary representation is not necessarily authoritative.

Scale 1:134,000,000
Robinson Projection
standard parallels 38° N and 38° S

Issues and Activities 2010-2015

- Student Recruiting
- Diversity and inclusiveness
- Student support
- International outreach and collaboration
- National and international visibility and stature
- Transition and Retention
- Social Climate
- Professional skills
- Multidisciplinary opportunities
- Inter-campus bonds and relationships
- Interactions with industry and government
- Research

The Graduate School and graduate education

A professor's role in graduate
education

Success in the academy
[small group discussions]

Points to note: Financial support is the top factor influencing attrition. STEM and non-STEM cultures are different.

How do you support your students?

How do you mentor your students? Make a list.

How can YOU help Purdue University reduce attrition and time to degree? Make a list of ideas

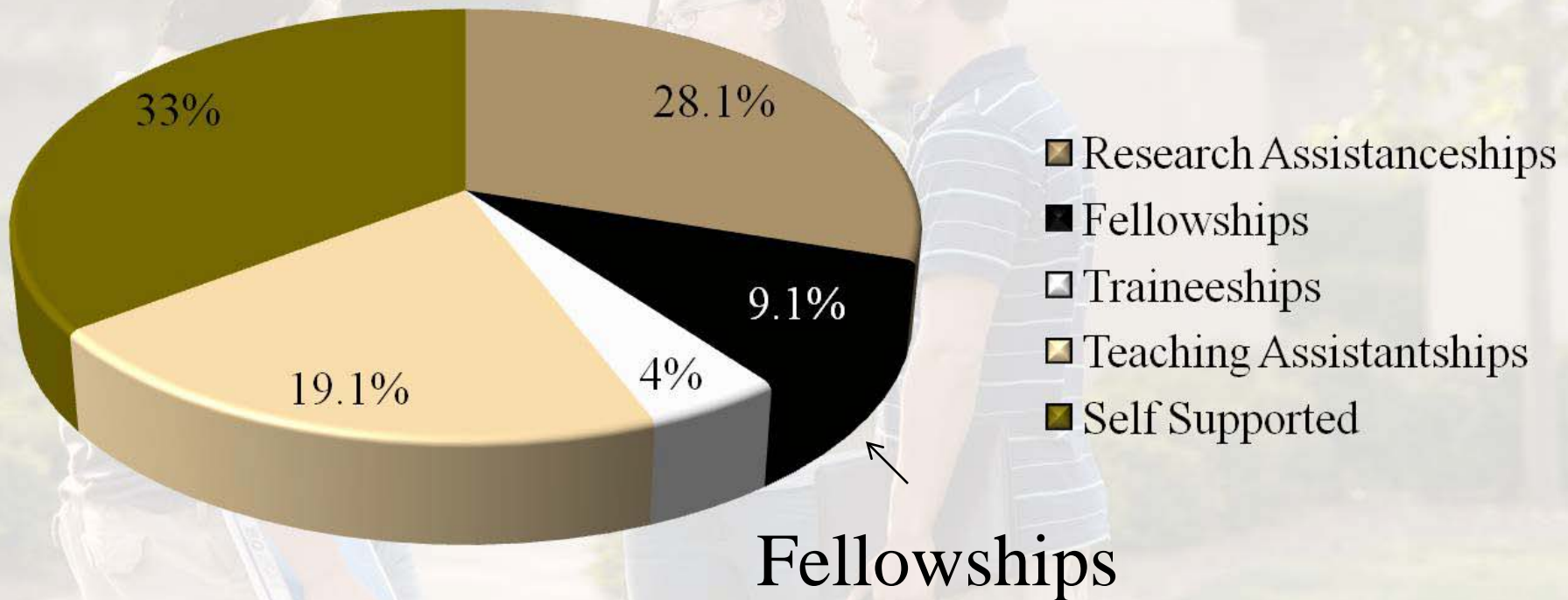
Student support is very important.

Let's take a look at some “Did you know” tidbits related to student support, fellowships, and research assistantships.

In Science and Engineering, did you know...



Full-time Science & Engineering Students by Percent of Primary Support Mechanism



Did you know we lose money on fellowships?

Let's take a look at some of our premier national fellowships.



National Science Foundation

GRFP Graduate Research Fellowship (2000 new awards)

IGERT Integrated Graduate Education & Research Traineeship

National Institutes of Health

NRSA National Research Service Award

Department of Education

GAANN Graduate Assistance in Areas of National Need

Department of Defense

NDSEG National Defense Science and Engineering Graduate Fellowship (200)

SMART Science, Mathematics, and Research for Transformation (300)

Department of Energy

CSGF Computational Sciences Graduate Fellowship (80)

SCGF Office of Science Graduate Fellowship (80)

Environmental Protection Agency

STAR – Science to Achieve Results (80)

National Aeronautics and Space Administration

- NESSF Earth and Space Science Fellowship (70)
- GSRP Graduate Student Research Program (300)
- AERO Aeronautics Scholarship (5)

Fulbright

- VEF Vietnam Education Foundation
- IIE Institute of International Education
- LASPAU Academic and Professional Programs for the Americas

Howard Hughes Medical Institute

- Intl International Student Fellowship

Committee on Institutional Cooperation

- CIC SI CIC Smithsonian Institute Fellowship

National Academies of Sciences

- Ford Predoctoral Fellowships (40)

Rhodes

Funding Levels of Major Fellowships and Traineeships

Sponsor	Fellowship	Stipend	Inst. Allowance	Shortfall [34k tuition]
NSF	GRFP & IGERT	\$30,000	\$10,500	\$24,057
NIH	NRSA	\$21,600	\$16,000	\$18,557
ED	GAANN	\$30,000 ²	\$13,755	\$20,802
DOD	NDSEG SMART	\$30,500	Full T&F	\$0
		\$25,000 -		\$0
		\$41,000		\$0
DOE	CSGF	\$36,000	Full T&F	\$0
	SCGF	\$35,000	\$10,500	\$24,057
EPA	STAR	\$25,000	\$12,000	\$22,557

GRFP Graduate Research Fellowship

IGERT Integrated Grad Educ & Res Traineeship

Funding Levels of Major Fellowships and Traineeships

Sponsor	Fellowship	Stipend	Inst. Allowance	shortfall
NASA	NESSF	\$24,000 ¹	\$3,000	\$31,557
	GSRP	\$20,000	\$0	\$34,557
	AERO	\$35,000	\$11,000	\$23,557
Fulbright	VEF	\$20,000	\$4,000	\$30,557
	IIE	Varies	\$0	\$34,557
	LASPAU	Varies	\$0	\$34,557
HHMI	INTL	\$ 30,000	\$10,000	\$24,557
CIC	SI	\$30,000	\$0	\$34,557
NAS	Ford	\$20,000	\$2,000	\$32,557
Rhodes		Varies	Full T&F at Oxford	NA

But, let's continue to apply for fellowships¹ up to \$30,000 – based on department stipend

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[small group discussions]

The Graduate School

Advancing to a Higher Degree

Sometimes you can be in a very competitive environment.
Does this really happen?
What do you do if you're in this kind of environment?
How do you change the culture?



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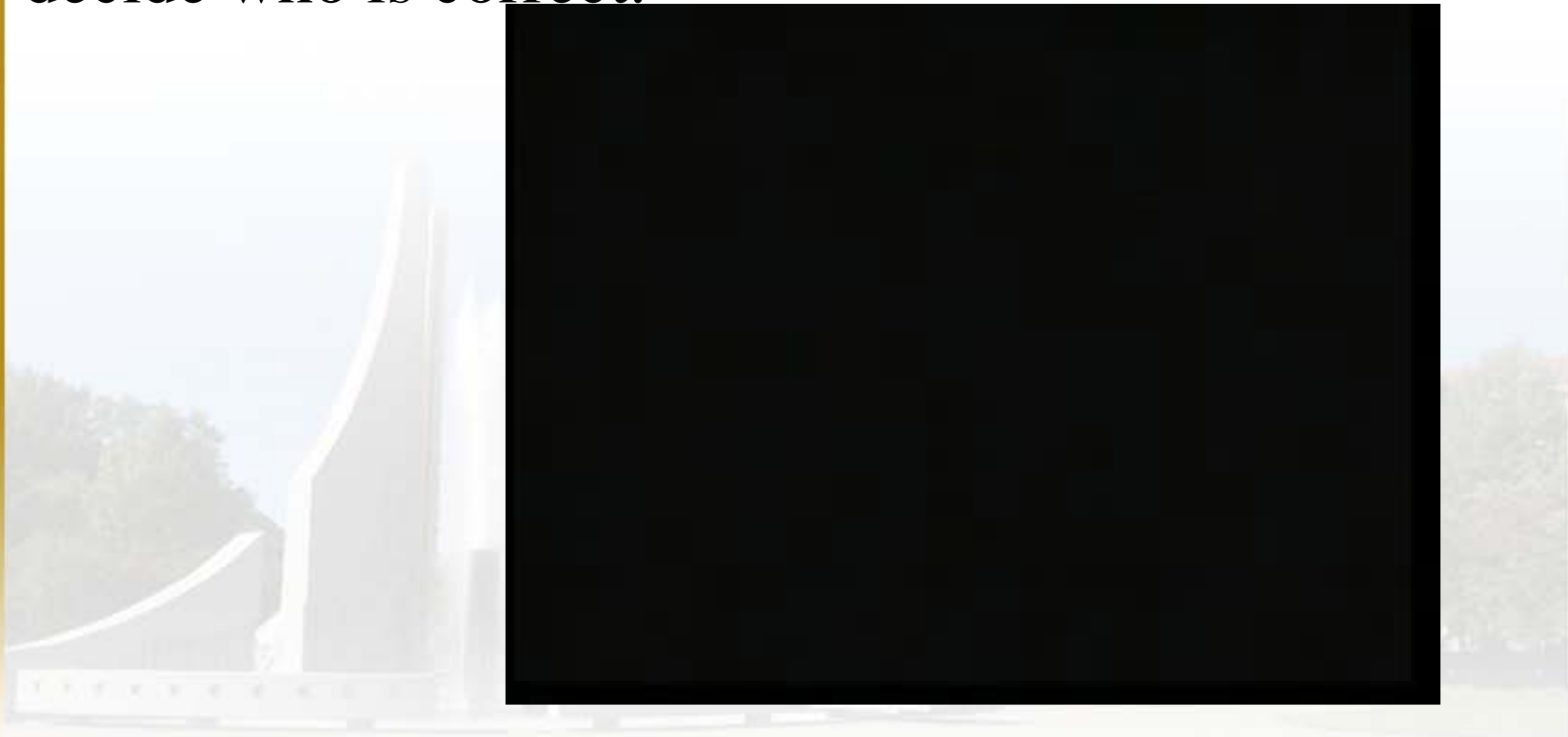
Does this really happen?

What do you do if you're in this kind of environment?

How do you change the culture?



Have one person in your group take the side of the professor. Have another person take the side of the student. Debate for 4 minutes. Let the group decide who is correct.



Sometimes dealing with
colleagues can be
challenging.

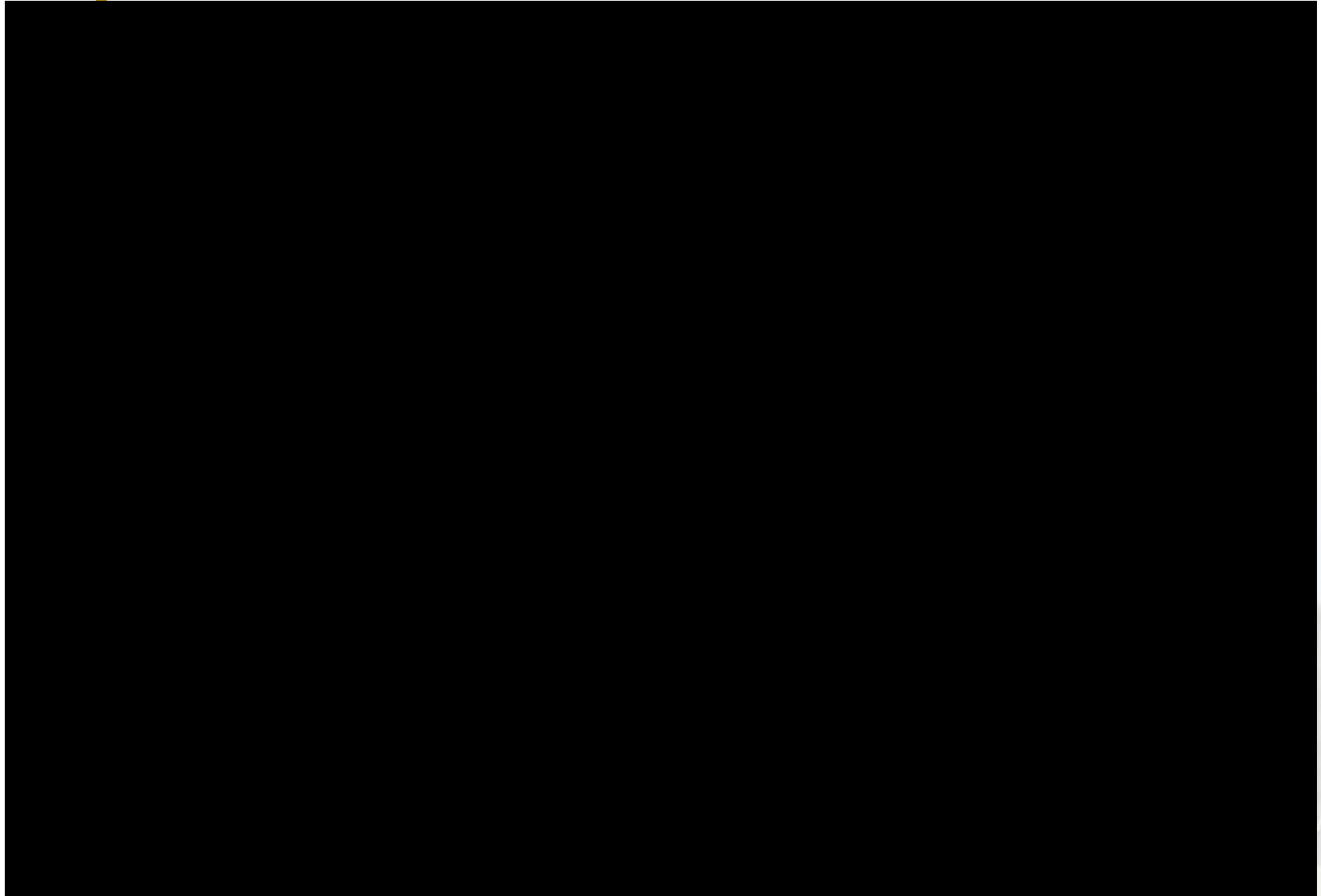


Professor X is not getting along with colleagues. He is confronted by the department head.

The dialog opens with “Professor X, I need to talk with you about collegiality. I’ve been getting complaints that you are disruptive during committee meetings.”

The Graduate School

Advancing to a Higher Degree



My personal thanks to Sr. Associate Dean
Jon Story for playing the role of Professor X



Have you every encountered someone with a nonlinear personality?

How would you handle this situation?

What if you were concerned about your personal safety?

Discuss

Characteristics of a good major professor

- Should have a good working relationship with student
- Should be accessible
- Should serve as an advocate
- Should be honest and direct but compassionate
- Should be encouraging
- Should promote self reliance and independent thinking
- Should be a good listener
- Should assist student in achieving career goals

How to succeed in the academy

Maintain collegial relationships with colleagues.

Maintain good relations with your students.

Publish, publish, publish

Become visible externally

Establish a good record of funding and research

Graduate PhD and MS students

Secure awards and honors

What else?

Collaboration is often a university goal

- Build connections among faculty peers – big grants
- Courtesy appointments
- Take advantage of centers, DP and collocation opportunities



Best wishes for a
successful career!

