## Disclaimer

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# Transforming graduate education in the modern 21st century university

Karen P. DePauw, Ph.D.
Vice President & Dean for Graduate Education
Professor, Department of Sociology and
Department of Human Nutrition, Foods & Exercise

AGEP national conference - May 2019





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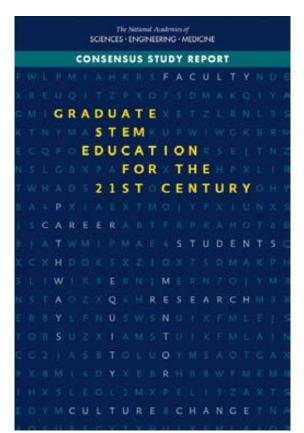


## **AGEP National Research Meeting** Coeur d'Alene, Idaho • May 19-21, 2019



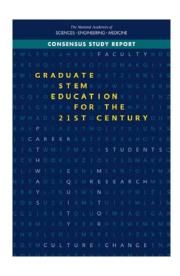
## to achieve the dream,





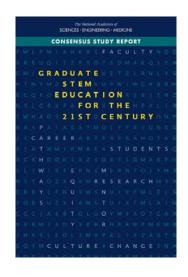
...it would be wise to acknowledge and understand the current and future challenges facing this system (i.e., graduate education) and take steps now to ensure that it remains vital, adaptable, and relevant for many generations to come. To neglect graduate education, or to ignore threats to its success, puts the economic, social, and cultural well-being of the nation at risk. (p. 19, 2018)





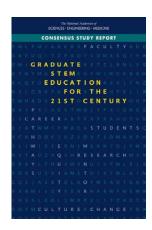
### National Academies of Science, Engineering and Medicine 2018

"Importantly, this report also calls for a **shift from** the current system that focuses primarily on the needs of institutions of higher education and those of the research enterprise itself to one that is **student** centered, placing greater emphasis and focus on graduate students as individuals with diverse needs and challenges. An ideal, student-centered STEM graduate education system would include several attributes that are currently lacking in many academic institutions"



#### ideal graduate education...

- fully accessible transparent data
- technical literacy including ethical issues
- inclusive and equitable learning environment; mental wellness, work-life balance
- different perspectives interdisciplinary
- communication skills
- individualized project based learning and transferable skills (not soft skills)



- professional development for multiple careers
- communication between students and administration including advocacy
- course offerings for careers options
- faculty mentoring and advising for graduate students
- training programs and rewards for faculty

Recommendation #3 Ensuring Diverse, Equitable, and Inclusive Environments (NASEM, 2018)

The graduate .... education enterprise should enable students of all backgrounds—including but not limited to racial and ethnic background, gender, stage of life, culture, socioeconomic status, disability, sexual orientation, gender identity, and nationality—to succeed, by implementing practices that create an equitable and inclusive institutional environment.



Innovative + Inclusive + Interdisciplinary = Transformative (3 I's = T)



Transformative graduate education (TGE)

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# a journey into the 21st century university...



If lasting institutional reform is to be achieved, it will require changes in graduate education, with greater emphasis upon the integration of disciplines and their applications to societal issues. Preparation for leadership should be a part of graduate education....

James Duderstadt, 2000



# rethinking and re-imagining graduate education....



....rethinking and re-imagining the Graduate School (college) and the role of the Graduate Dean



building a new culture with new meaningful and relevant programs

excellence through inclusion and diversity



## 21st century global university

- interdisciplinary and integrative
- forward thinking
- adaptive, innovative and agile,
- transformative, and
- inclusive



# VT Graduate School and Graduate Life Center









a space and place for graduate education

# Graduate education at VT today isn't what is used to be

And that's a good thing!





# Transforming graduate education through initiatives and programs

the role of the Graduate School



## Graduate school....

- must be responsive, integrative, interactive, inclusive & innovative
- must provide a space and place for graduate education
- incorporates building academic communities
- has power to convene
- has responsibility for change
- must be strategic and lead transformation



- complement and expand upon traditional academic training in the disciplines
- promote interdisciplinary graduate education
- create affirming, inclusive graduate community
- provide career development and 'success critical skills' development (e.g., future professoriate, career professional)



- incentives (certificates, academic credit)
- commitment of time by Dean
- utilize resources within Graduate School; share and sustain resources
- dynamic and evolving programs; meaningful and relevant
- safe and brave space



# Transformative Graduate Education (TGE)

Preparing Future Professoriate (PFP)

**Career Professional (PFPro)** 

Teaching/Learning, Academy for

**GTA Excellence** 

Leadership Citizen Scholar Engagement

Knowledge

(CSE) Citizen Scholars

Communication Science & Public

Engagement

**Scholarly** 

Inquiry

**Social** 

Responsibility

DePauw 2003 (rev 2017)

Technology, inclusion & diversity, interdisciplinary, ethics, & global



#### **Graduate Courses & Certificates**

- Preparing the Future
  - Professoriate (3)\*
- PFP: Global Perspectives (3)
- GTA Workshop (1)
- Contemporary Pedagogy (3)\*
- Library Research Skills (1-2)
- Citizen Scholar Seminar (3)
- Ethics and Scholarly
  - **Integrity (2)**
- Study Abroad GPP (3)

- **Preparing Future Career** 
  - **Professional (3)**
- **Industrial Professional in** 
  - Science & Engineering (3)
  - Diversity & inclusion for a
    - global society (3)
- Communicating Science (2)
- International Research (3)
  - Interdisciplinary Research &
    - **Graduate Education (1-3)**



## Q27: How well prepared do you feel for whatever you are doing next in your career or academic pursuits?

- 75% of students participated in TGE initiatives feel extremely well, or very well prepared
- 79% of students received the PFP certificate feel extremely well, or very well prepared
- 68% of students not participate in GRAD courses feel extremely well, or very well prepared



#### **Certificates**

- Future Professoriate graduate certificate (700+)
- Inclusion and diversity graduate certificate
- Career professional graduate certificate

#### Curricular content

- Ethics and scholarly integrity requirement
- Inclusion and diversity requirement

#### Micro-credentials



### Workshops and seminars

- Writing skills
- Team building
- Time management
- Communication
- Work-life balance
- Inclusive pedagogy

- Privilege and bias
- Grant writing
- Job preparation
- Leadership
- Entrepreneurship
- and more



## Preparing the future professoriate: Global perspectives program (GPP)



Since 2006 14 + 4 programs (Switzerland, Chile, Ecuador)

200+ participants

8 summits at Swiss Embassy

8+ web published manuals



## Global Seminar participants & Swiss Embassy













## Global Perspectives Program (GPP: Switzerland): selected themes

- Higher education as public good: the global landscape
- Global higher education: accountability & relevance
- EU 'modernizing' higher education 2020+
- Reforming doctoral education
- Access to and within higher education
- University and society: meeting expectations?
- Future of higher education: preparing for change
- Global graduate education
- PhD education in Europe and U.S.



## Preparing future professoriate: global perspectives

#### **GPP Chile**

Info About and From Chile



Graduate school's Global Perspectives Program expands to Ecuador



#### The meaning of global

Posted on February 26, 2012 by Karen DePauw









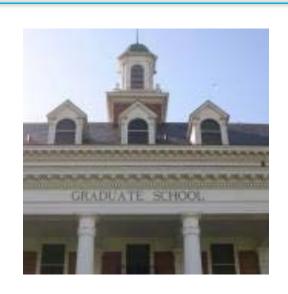






### Leading the conversation in Latin America

# Transformative Graduate Education (TGE)



Knowledge

Scholarly Inquiry

Interdisciplinary/Transdisciplinary



## learning, unlearning and relearning across disciplines

Rhoten, D. 2004. Interdisciplinary Research: Trend Transition. Items and Issues 5, no. (1-2):6-11.



#### 21st century

## 'grand' challenges

beyond a single discipline

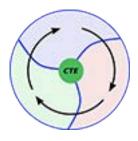


## **Interdisciplinary Graduate Education Programs**









14 IGEPs

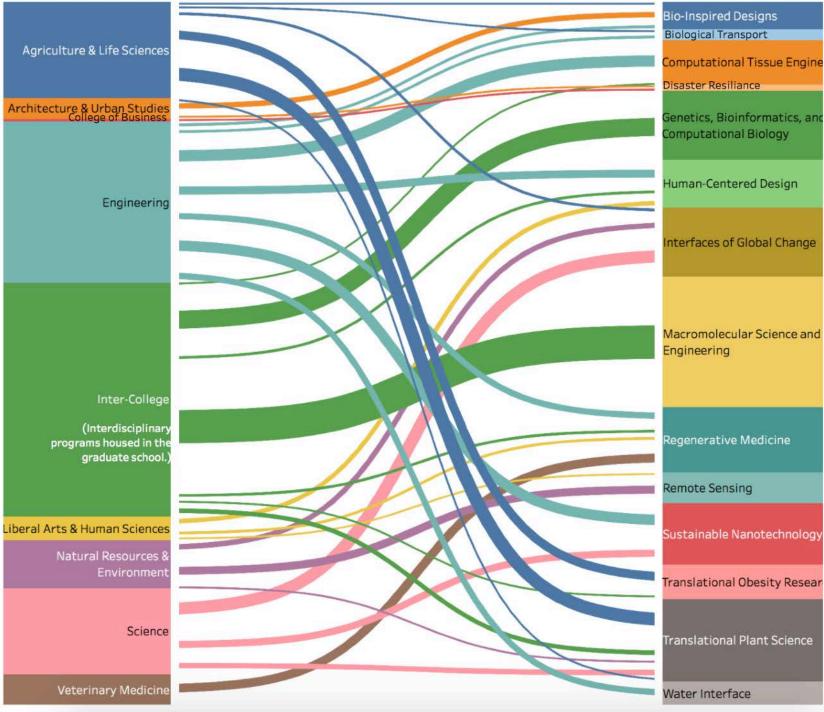
~325 students

~270 faculty

iPhD = 7+







Interdisciplinary Graduate Education Program

## Interdisciplinary thinking (iThinking)

DePauw, K.P. (2015) <a href="https://blogs.lt.vt.edu/kpdtge/index.php/">https://blogs.lt.vt.edu/kpdtge/index.php/</a> 2015/08/06/interdisciplinary-thinking/



## Interdisciplinary Skills (Repko, 2008)

#### Ability to

- communicate
- think abstractly
- think dialectically
- engage in nonlinear thinking
- think creatively
- think holistically



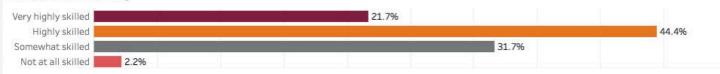
#### Communicate Completently



#### Think abstractly



#### Think Dialectically



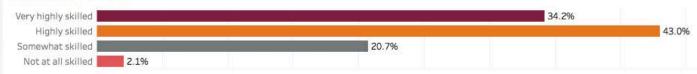
#### Engage in nonlinear thinking



#### Think Creatively

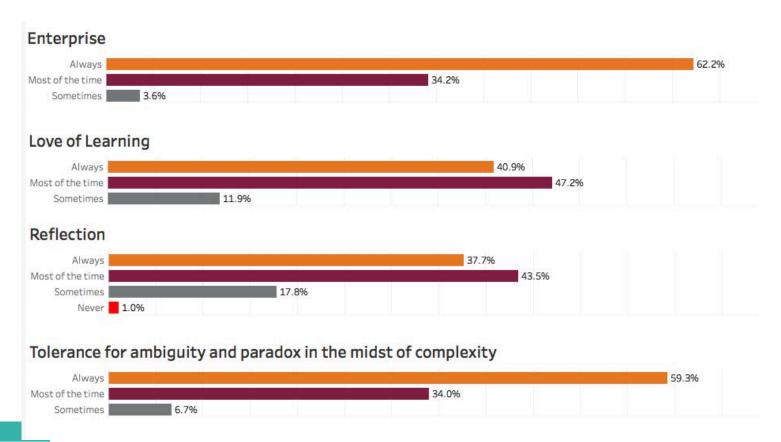


#### Think Holistically





## Traits for interdisciplinary thinking (Repko, 2008)





#### Receptivity to other disciplines and to the perspectives of those disciplines 49.0% Always Most of the time 40.1% 10.9% Sometimes Willingness to achieve "adequacy" in multiple disciplines Always 74.5% 23.0% Most of the time Sometimes 2.6% Appreciation of Diversity Always 55.1% Most of the time 35.7% Sometimes 9.2% Humility Always 51.8% Most of the time 39.8% Sometimes 7.9% Never 0.5%



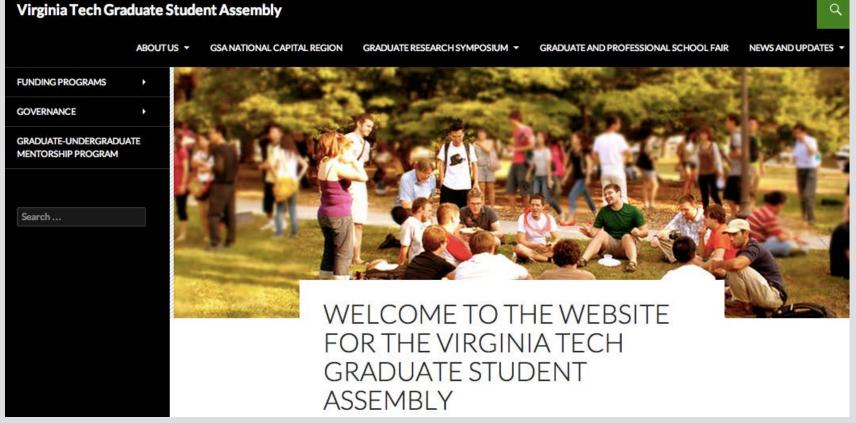
# Transformative Graduate Education (TGE)







#### **Graduate Student Assembly**





## Interdisciplinary Research Honor Society (IDR) at VT



- Our mission is to promote and recognize interdisciplinary research at VT and throughout the United States.
- Faculty advised by Dean DePauw
- We have several events:
  - IDR day a day of discussion and group project work
  - IDR Symposium (this coming Fall)
  - Socials and Society meetings
- Membership:
  - □ IDR Honor Society Members
    - Application deadline:
    - GPA requirement: 3.7
  - □ IDR Honor Society Associate Members
  - IDR Society Members

GO to www.idrsociety.org!

## Alpha Epsilon Lambda (AEL)

The Alpha XI Chapter of Alpha Epsilon Lambda

The honor society of graduate and professional school students





Overview
Officers and Advisor
Members
Activities & Programs
Constitution
Application Process
National AEL



144 people like this

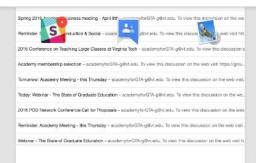


# Transformative Graduate Education (TGE)



**Social Responsibility** 





#### **Discuss Pedagogy**

The VT Graduate Academy for Teaching Excellence serves as a community hub for graduate students who are interested in teaching to connect with each other as well as faculty, staff, and other campus resources.

Slow Scholarship and Building Community to Thrive in Graduate School

## COMMONS

#### **OPEN EDUCATIONAL RESOURCES**

#### Pedagogy Resource Repository

The VT Graduate Academy for Teaching Excellence hosts a wealth of pedagogical resources that may help one improve their teaching.





#### Service Work

The VT Graduate Academy for Teaching Excellence provides service to the campus and broader community by providing some human, technical, and other resources in support of teaching and improving one's pedagogy.

#### Research and Funding

This blog post is in part processing a few research thoughts and working on research statements for my Feminist Research Methods course. Last week was Grad Ed Week at Tech. Part of what that brought







#### Citizen Scholar Engagement



Citizen Scholar Program Requirements

Current Citizen Scholars

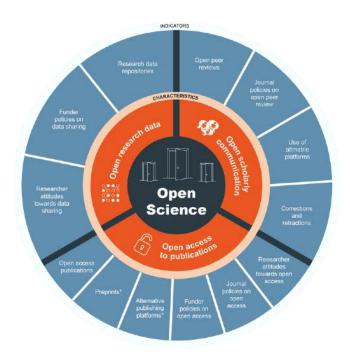
Past Citizen Scholars

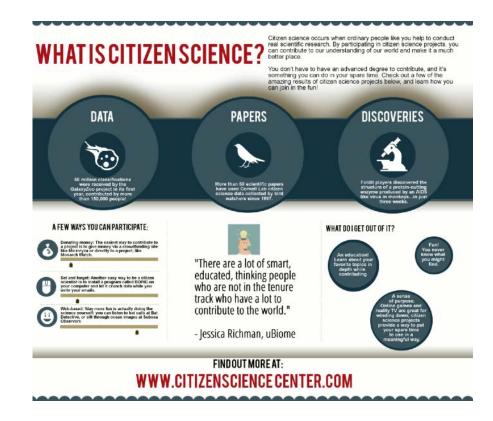
#### Contacts

Vice President and Dean for Graduate Education Karen P. DePauw

540-231-7581











## Communicating Science

Graduate students share their experiences with Communicating Science classes in the short video below.





## Nutshell games, courses, workshops and more

# Transformative Graduate Education (TGE)



Social Responsibility

Access and inclusive



## **Inclusion and diversity**

- with inclusion we can be diverse
- with diversity we might not be inclusive



#### Inclusion is

- active, intentional and ongoing engagement with diversity in the curriculum and community
- changing the culture so that individuals could be and are included
- choices and having choice
- empowering communities



## Graduate School Inclusion & diversity initiatives

#### Holistic admission

Inclusive GLC - Health & wellness in Rm G Inclusion and Diversity requirement

Creating affirming environments

Disrupting Academic Bullying

Climate survey

Post admissions services survey

Work life grants



## Holistic admissions

- Discontinue practice GPA and/or GRE scores as primary criteria
- Use of additional criteria in support of holistic admission



## Additional questions on application

#### **Additional Educational Experiences**

Which of the following have you had experiences in? (select all that apply):

☑ Community involvement and/or service										
	Explain:									
<b>V</b>	eadership									
	Explain:									
<b>V</b>	Overcoming social, economic, or physical barriers									
	Explain:									
<b>V</b>	Personal and/or professional ethics									
	Explain:									
<b>V</b>	Recognition of achievements over time									
	Explain:									
<b>V</b>	Research/scholarship									
	Explain:									
<b>V</b>	Additional Experience									
	Explain:									

# Additional questions for letters of recommendation

1. --- Select one --- ▼ 2. --- Select one --- ▼

If available, provide the applicant's relative standing in your department:												
How would you rate this applicant in:												
Communication skills:		Very strong		Strong		Average		Needs improvement		Unable to evaluate		
Ethics & Integrity:		Very strong	0	Strong	0	Average	0	Needs improvement	0	Unable to evaluate		
Initiative:		Very strong	0	Strong		Average	0	Needs improvement	0	Unable to evaluate		
Innovation & Creativity:		Very strong	0	Strong		Average	0	Needs improvement	0	Unable to evaluate		
Planning & Organization:		Very strong	0	Strong	0	Average	0	Needs improvement	0	Unable to evaluate		
Teamwork:		Very strong	0	Strong		Average	0	Needs improvement	0	Unable to evaluate		
Curiosity:		Very strong	0	Strong		Average		Needs improvement	0	Unable to evaluate		
Which two of the above attributes best characterize this applicant?												

Please provide the most compelling reason for Virginia Tech to admit this applicant and explain your reasoning.

## Graduate School Inclusion & diversity initiatives

Holistic admission

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Little Hokie™ Hangout is a parent-run cooperative playgroup for children between



Babysitter Clearinghouse

The Graduate School's

Babysitter

Clearinghouse is a

frequently updated list

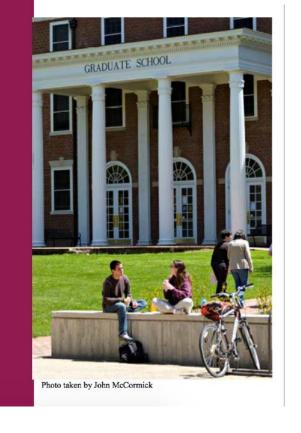
of qualified babysitters



#### Parent Support Group

Graduate students who are juggling family and their academic work meet monthly to discuss issues, connect with other parents, and





Connect lunches: Black, Women, Native/Indigenous people, over 30, LGBTQ, Latino/a, FirstGen, Disability caucus and more

Office of
Recruitment,
Diversity and
Inclusion (ORDI)
@VT\_ORDI

Diversity scholars and spotlight HBCU/MSI Research Summit



# changing the rhetoric and reality of graduate education



# imposter syndrome, perfectionism work-life balance



from surviving.....

thriving



# 31 Tips for Thriving in Graduate School







#### **GRADUATE SCHOOL**

QUICKLINKS ABOUT ACADEMICS ADMISSIONS CURRENT STUDENTS FUNDING GRADUAT

☐ Graduate School / Graduate Life / Your Voice Matters

## Disrupting Academic Bullying

To maintain a culture of civility throughout the graduate education experience, academic bullying is unacceptable and should not be tolerated.



## Forms of bullying include:

- Incivility (rude)
- Subtle or overt discriminatory behaviors including micro-aggressions
- Intimidation
- Public humiliation
- Shouting
- Belittlement
- Eye rolling
- Unwarranted/unprofessional remarks



## **Examples of Academic bullying**

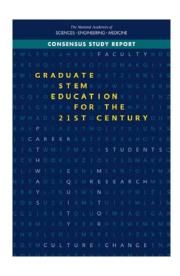
- Disregarding or ignoring contributions
- Undermining authority or responsibility
- Withholding information
- Assigning and expecting unreasonable workload
- Disallowing vacation time or personal time
- Limiting professional choice and choices
- Exclusion from relevant meetings
- Continual threats of dismissal or intimidation
- Attempts to destroy or harm the person's self-esteem or confidence
- Constant negative remarks or repeated criticism or sarcasm



## 21st century global university

- interdisciplinary and integrative
- forward thinking
- adaptive, innovative and agile,
- transformative, and
- inclusive





## National Academies of Science, Engineering and Medicine 2018

"Importantly, this report also calls for a **shift from** the current system that focuses primarily on the needs of institutions of higher education and those of the research enterprise itself to one that is **student** centered, placing greater emphasis and focus on graduate students as individuals with diverse needs and challenges. An ideal, student-centered STEM graduate education system would include several attributes that are currently lacking in many academic institutions"

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**Scholarly** 

Inquiry

**Social** 

Responsibility

DePauw 2003 (rev 2017)

Technology, inclusion & diversity, interdisciplinary, ethics, & global



"I suppose it is tempting, that if the only tool you have is a hammer, to treat everything like a nail"

Abraham Maslow, 1966



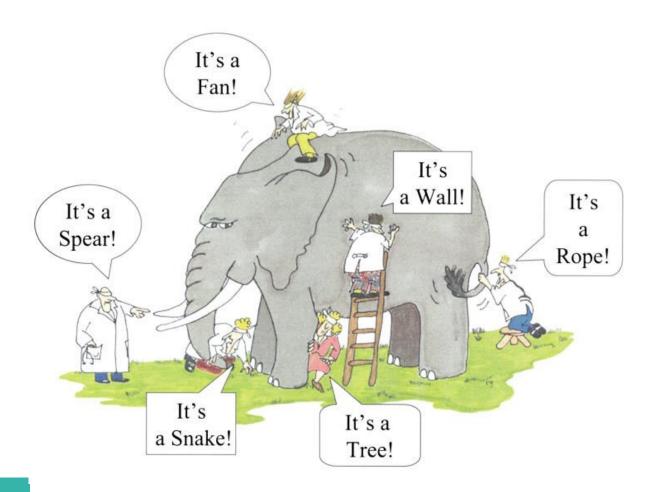
expand the tools enlarge the tool box



#### 21st century global university

- seeing the whole from different perspectives
- seeing things differently
- looking for the unobvious













#### seeing the 'unobvious'







see things differently and look for the 'unobvious'



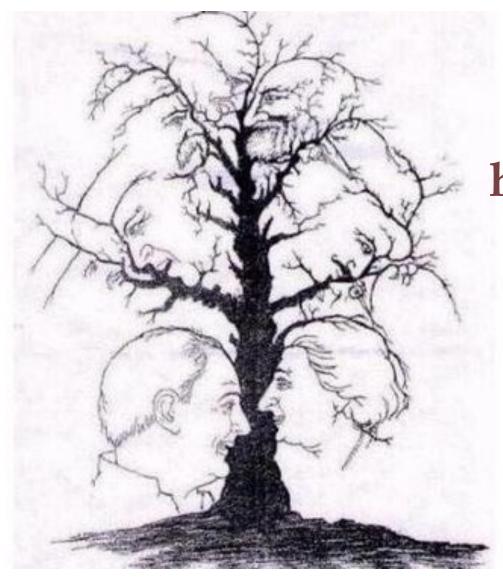






see things differently and look for the 'unobvious'





how many faces?

looking for the unobvious

# 21st century modern university...



#### ....futuristic



### .... risk



# ....futurisktic



#### Transforming graduate education

**Innovative + Inclusive + Interdisciplinary** 

= Transformative (3 I's = T)



#### A suggestion...

- Partnership with the Graduate School
- Secure Graduate Dean's commitment to 3 I's = T (Transforming graduate education)



# 2019 Graduate Education Summer Conference



Building Graduate Community and a Culture of Inclusion

#### Conference dates:

June 19-20, 2019

Program to start at 10:00am on June 19 with welcome and introductions, followed by a keynote at 10:30am; conference to conclude at about 3:00pm on June 20.



gradconference@vt.edu

## Thank you





a space and place for graduate education

# **Questions?**

