

### Telling the Story of Research

Tactics for Communicating the Value of University Research

### Two Billion Dollars Down the Hole (Literally)

The Revolutionary Physics Facility That Never Was



#### **The Promise**

- Multibillion dollar project to discover "God Particle," the theoretical particle that bestows mass
- Facility would have been 20x more powerful than any previous collider
- Thought to advance U.S. contribution to physics and spin-off groundbreaking medical technologies



### The Facility

- Circular tunnel built deep underground in Waxahachie, TX to house superconducting super collider (SSC)
- Total circumference of 54.1 miles
- Cancelled in 1993 after digging 14.6 miles



### The Budget and Opportunity

\$2B

\$11B

Cost to dig hole

Total expected cost

13,000 Total expected jobs

Source: The Super Collider That Never Was (2013), available at https://www.scientificamerican.com/article/the-supercollider-that-never-was/.

### Poor Communication the Key to Its Demise

## 3

### **Timeline of Demise**

#### 1987

President Reagan approves project and his science advisor tells physicists to "be greedy" and "throw deep."

#### 1992

President Clinton becomes less interested in project as Cold War fades in memory. Naming particle the "God Particle" confuses Congress.

#### October 1993

Project officially cancelled, although finally supported by President Clinton.

#### 1989-1992

Costs rise and facility put against International Space Station for funding, which captured awe and interest of public. Value of facility not communicated well.

### May 1993

Congressional hearing held to determine whether to continue. Scientists fail to convince legislators of value. Congress votes to cancel funding.

#### 2017

Holes have been filled in or used for drainage. Site bought by chemical company.

### **Wasted Costs and Lost Opportunity**

\$2B

\$4B

Cost to close

Total monetary loss

11,000
Jobs not created

Sources: Superconducting Super Collider Congressional Hearing (1993), available at https://www.cspan.org/video/?43272-1/superconducting-super-collider; The Super Collider That Never Was (2013), available at https://www.scientificamerican.com/article/the-supercollider-that-never-was/.





#### Senator:

"...it's hard for me to justify this expense to my constituents... nobody eats quarks"

#### Scientist:

"...actually, Senator... you just ate a billion billion billion quarks this morning..."

### Will I See God?





### Representative 1:

"...[referring to experiments done at facility while talking to a scientist] will this make us find God?"

### Representative 2:

"If this machine does that, I'm going to come around and support it"

#### Scientist:

[Stays silent after previous testimony using term "God Particle"]

### **Health Impacts? Nonsense!**



### Representative 3:

"...the [facility being built] has not made any advances in curing cancer; let's establish that point here and now..."

#### Scientist:

[No commentary about future potential role of proton therapy in treating cancer]

Sources: Superconducting Super Collider Congressional Hearing (1993), available at https://www.c-span.org/video/?43272-1/superconducting-super-collider; *The Space Chronicles* (2012) Neil deGrasse Tyson; How Texas Lost the World's Largest Super Collider (2013), available at https://www.texasmonthly.com/articles/how-texas-lost-the-worlds-largest-super-collider

### **Four Key Reasons**

### Attract **New Donors**

- Need to communicate the value. of faculty work to attract funding from non-traditional sources
- New donors care about impact instead of publications

### Garner Public and **Legislative Interest**

- Create public support around work and the tax dollars that support it
- In some cases, must preemptively defend faculty work from less than trusting politicians

### Secure NSF and NIH Funding

- With funding thresholds higher and higher, it's important to strengthen "broader impacts" section in proposals
- Crucial to justify needs to further public support of stagnating federal funding

### **Build Name** Recognition

- Create awareness of your university in your city and nationally
- Helps retain top faculty and attract research partners and students

### Public (Dis)Engagement

6

While Data Vary, It's Clear There is More Work to Do

### **Unengaged in Science...**

81%

Of public cannot name a living scientist

66%

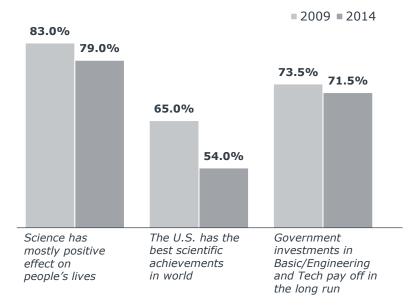
Of public cannot name where science is done

60%

Of public do not report having confidence in science

### ... And Signs That Opinions Are Slipping

Public Opinions About Value of Science



Sources: Research America, available at http://www.researchamerica.org/; Pew Research Center, available at http://www.pewinternet.org/2015/01/29/public-and-scientists-views-on-science-and-society.

## Build Staff Capabilities and Coordination



- Coordinate with communicators across campus
- Invest in communications staff to effectively seek and develop research stories
- Foster relationships between communication staff and faculty

### 2 Cultivate Faculty Engagement



- Engage faculty in value of broad communications
- Train faculty to communicate value of research in plain English, focusing on potential community and societal impact
- Identify and leverage specific faculty for communication leadership

### 3 Optimize Communication Channels



- Build followers and engage the unengaged
- Invest in focused efforts to convey specific messages to specific audiences through the appropriate channel
- Improve research website and social media presence to become more compelling
- Systematically evaluate communication efforts to determine effectiveness



## Building Staff Capabilities and Coordination

COLUMN

- Tactic #1: Campaign-Based Templates
- Tactic #2: Purpose-Driven Collaboration Forums
- Tactic #3: Beat Reporting
- Tactic #4: Faculty Feedback Protocols

### Lack of Public Understanding Created Need to Unify

Templated Resources for Dispersed Communicators Maintains Brand

### **Public Perception Research Spurs Branding Campaign**



45%

Community perception of U MN curing diseases in 2005



60%

Overall positive community perception of U MN in 2005





### **Case in Brief: University of Minnesota System**

- Public Research University with 5 campuses in the Twin Cities, Duluth, Crookston, Morris, and Rochester, Minnesota
- \$880M+ in research expenditures at the Twin Cities campus in FY2015
- Launched "Driven to Discover" campaign in 2006 to build brand reputation of university
- "Driven to Discover" campaign has been embraced and adopted system-wide over the past decade
- Needed to first ensure consistent branding across all university communication output
- Provided all campus communicators with branded templates to produce their own communication materials

### Using the Campaign to Tell a Research Story



### **Three Core Components Included in Templates**



### Make a Compelling Statement

"I am Driven..." Statement

"I am driven to create localized painkillers that won't reach the brain."

Carolyn Fairbanks



## Relay the Impact in Plain English Short Format

We seek to shield the brain from analgesic drugs and pain signals.

#### **Medium Format**

We research ways to keep both pain signals and potentially addictive painkilling drugs from the brain. Gene therapy is among the promising approaches.

#### **Long Format**

We research ways to keep both pain signals and potentially addictive painkilling drugs from the brain. We have found drugs that work in the spinal cord and peripheral areas. We are also pursuing a gene therapy approach that would erect biochemical "stop signs" for pain signals en route to the brain.





### Share on Social Media In Consistent Way

@UMN-Pharmacy Prof Carolyn Fairbanks is #UMNdriven to #endaddiction by creating localized #painkillers that never reach the brain.

#### **Facebook Post**

Creating localized painkillers that won't reach the brain.

University of Minnesota professor Carolyn Fairbanks is determined to end addiction by keeping both pain impulses and potentially addictive painkilling drugs away from the brain.

Ease of Use Fosters Adoption

Use one of several category images for your field

Use a photo of the researcher that is modern or candid instead of a typical headshot

Use a medium length impact description



University of Minnesota

Driven to Discover™

Plug in "I am driven..." statement

Drop in the appropriate URL and hashtag

farming. Together we're solving the world's biggest challenges. Like hunger.

UNIVERSITY OF MINNESOTA
Driven to Discover\*\*

www.umndriven.edu #UMNdriver

### True Collaboration Hard to Come By

Just Getting in the Same Room Not Sufficient

### Varying Levels of Interaction Among Research, Department, and Central Communicators









No Interaction of Collaboration

- Communications staff across campus don't know who the other communicators are
- Collaboration solely relies on individuals reaching out to other communications staff one-off, with irregular frequency

#### Electronic Collaboration

- Collaboration is enabled (through internal newsletters or online announcements), but not necessarily encouraged
- Campus communication remains predominantly siloed

Infrequent Low-Value Meetings

- Departments that are already linked (by grand challenges or interdisciplinary work) meet regularly on shared initiatives
- Additional shared meetings poorly attended, don't lead to collaboration

- Regular, Truly Collaborative Meetings
- Campus communicators develop mutual rapport
- Staff share news and identify opportunities to optimize their communication efforts through shared learning, resource creation, and joint media efforts



### Lots of Research Communicators, Little Collaboration





### Research Communications Council (RCC)

- All research communicators across campus (including college-level and central office)
- Approximately 35 members
- Meets on monthly basis



### Case in Brief: University of Illinois at Urbana-Champaign

- Public Research University located in Champaign, Illinois
- University Doctoral Universities: Highest Research Activity
- \$630M+ in research expenditures in FY2015
- As a strong interdisciplinary university, needed to facilitate effective collaboration across communications staff
- Organized the "Research Communications Council," a monthly cross-campus communications staff meeting series using professional development opportunities as a means of educating staff and promoting collaboration

VCR1 Buy-In Fostered Broader Support for Research Communications Council





#### **Funding the Effort**

- Director of Research
   Communications appealed to
   the VCR for the creation of a
   collaborative group meeting
- Early VCR support was critical for getting the Council off the ground
- VCR provided dedicated budget to fund meeting lunches



### **Showing Up**

- VCR signals value by attending monthly meetings of the RCC and speaking with communications staff in-person
- VCR looks to the RCC to inform strategic decision making



#### **Talking it Up Across Campus**

- VCR references and credits the RCC when speaking with deans, faculty, and other administrators
- VCR leverages RCC expertise when making recommendations

"

"The bigger picture is the spirit in which we're collaborating; seeking ways to enrich the **intellectual vibrancy** and making sure we're **supporting the true research mission** of the university. As communicators we need to reflect the reality of Illinois, which is a **highly interdisciplinary**, **highly collaborative** place."

Melissa Edwards, Director of Research Communications
University of Illinois, Urbana-Champaign

Valuable Information Even Better Than a Free Lunch









### **High Profile Speaker Ensures Attendance**

## General Research Office & Department Updates Keep Staff Informed

## Collaboration Planning Sets Up Opportunities

#### Approx. 30 Minutes

- Presentation relevant to communications activities, time for O & A included
- · Popular Guests Include:
  - Vice Chancellor of Research
  - Director of Research Compliance
  - Director of Government Relations

Updates from the research office

Approx. 30 Minutes

 Department communications staff share research stories they have in the queue

- Identify similar stories or releases that can be linked
- In the moment, schedule follow-up time to collaborate



### **Cultivating Faculty** Engagement

COLUMN

• Tactic #5: Faculty Media Spotlight

• Tactic #6: Immersive Training

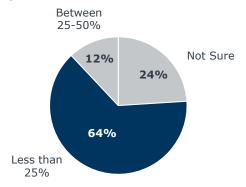
Tactic #7: Faculty Leader Fellowship





### Faculty an Underutilized Fleet of Research Ambassadors

## What Percentage of Research-Active Faculty at Your Institution Speak Regularly with the Media?<sup>1</sup>



Of communications survey respondents would like their institutions to provide formal training to faculty to better communicate their research when approached by the media

### The Potential Benefits of Utilizing Faculty for Research Communications



Messaging is most powerful when delivered by the researcher who made the discovery



The more researchers can talk with the media, the further the reach of the university brand



Many researchers are going to use social media to talk about their work anyway, but communications training can help to send the right message

### The Superstars of Research Communications

### Leveraging Skilled Faculty Communicators to Train Others

### The Engaged and Skilled

- · Refresh on basic training
- · Cultivate skills
- Use as champions to engage other faculty

### **Limited Faculty Communication**



11%

Percent of research active faculty engaged in communicating broad impact of research



### Bringing the Most Funding to Campus

The top 10 funded researchers on campus are among this subset of regular communicators



### **Case in Brief: University of Denver**

- Private Research University located in Denver, Colorado
- University Doctoral Universities: Higher Research Activity
- \$16M+ in research expenditures in FY2015
- · Wanted to identify the best candidates for more intensive communications training
- Developed proposal for Public Impact Fellows Program, an exclusive faculty communications training program led by top communicators and communications experts

### **The Public Impact Fellows Program**



### Two-Way Selection Process

- Faculty must apply
- Leaders choose participants based on research areas and communication potential

### Peer and Expert

 Training delivered from successful, top DU communicators and outside communications experts



### Monthly Discussion-Based Cohort Meetings

 Fellows share their experiences as they learn and practice their communications strategies





### Biennial Campus-Wide Workshops

 Fellows present their experiences and skill development to the larger faculty community and encourage future fellowship participation

### **Fellowship Objectives**

- Identify disciplinary differences in effective modalities
- Help faculty determine their preferred communication outlets

✓ Find the metrics that communicate the value of unique research areas



### Optimizing Communications Channels

• Tactic #8: Targeted Campaigns

· Tactic #9: Website Enhancement Audit

• Tactic #10: Social Media Improvement Guide

• Tactic #11: Compelling Content Library

• Tactic #12: Community-Connected Events

• Tactic #13: Strategic Scorecard

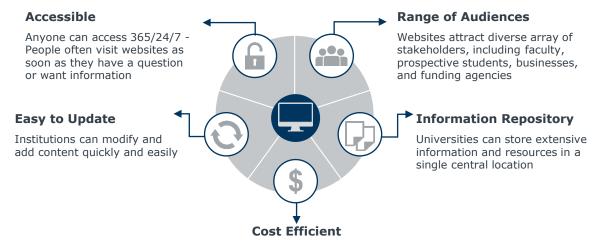
COLUMN

3

### Missing a Golden Opportunity

### Websites as Gateways to the Research Enterprise

#### The Potential Benefits of Your Website



Updating and maintaining a website can save universities money on print materials

"

"The website is really the centerpiece of the communications strategy and platform...getting it right is crucial in establishing the profile and impression that you need to convey."

AJ Cheline, Director of Marketing and Communications
Office of Research, UC Davis

Audit Reveals Opportunities for Improvement Across All Institutions

### **Key Website Audit Findings**

0

Not a single institution had a research website with all 14 features ~5 of 14

Average number of most valuable research website features for an institution was 5.48

<50%

Less than half of the institutions had at least **11 of the 14** features



Institutions with higher research expenditures had stronger research websites<sup>1</sup>

### **URF Website Audit-in-Brief**



- Audited 50 randomly-selected research universities
  - 25 with research expenditures exceeding \$100M
  - 25 with research expenditures between \$10 and \$99M
- Developed a list of 14 most valuable research website features based on website usability principles and an examination of best-in-class research websites
- In most cases, features had to exist within three clicks from research homepage to count



How Does Your Institution Stack Up?

Download the Research Website Self-Audit Today www.eab.com/urf/researchcommunications

T-test (p<0.05) showed statistically significant difference in the number of website features between institutions with higher (>\$100M) and lower (\$10-99M) research expenditures.

### Pinpointing the Critical Deficits

### Four Key Areas Where Websites Are Often Lacking



### **Engaging With Visuals**

- Most viewers leave web pages in under 20 seconds
- Viewers are more likely to remain on sites if they are not solely text-based





- Viewers are eager to get to information that relates to them
- Institutions can keep viewers engaged longer if they provide navigational links and tailored information for different stakeholders



### Highlighting Unique Strengths

- Research websites blur together so institutions need to make their sites distinctive
- If institutions stand out in key areas, they should publicize that information

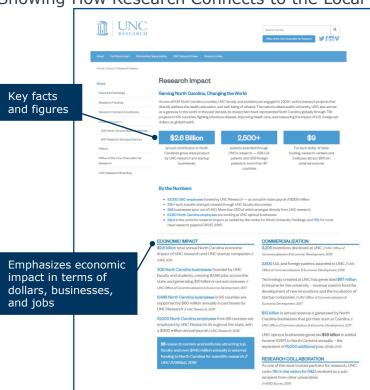
### Including Meaningful Metrics



- Non-academic audiences don't value publications and citations as much as academic audiences
- Potential funders, lawmakers, and the public at-large are more compelled by concrete examples of how research relates to their lives and communities

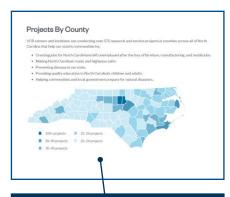
Sources: University Research Forum 2017 Research Website Audit; Nielsen Norman Group, available at https://www.nngroup.com/articles/how-long-do-users-stav-on-web-pages/.

Showing How Research Connects to the Local Community





THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL



Focuses specifically on the impact in North Carolina

### Coupling Pop Culture With Research Expertise

Increasing Engagement Through Social Media



**231**%

Percent increase in website page views

135K

Number of Twitter impressions (increased from 9,885 in previous month)

3 Number of local news stations that picked up the stories

Number of articles re-written (and infographic picked up) by R&D magazine



### **Case in Brief: University of Arizona**



- Public Research University in Tucson, Arizona
- Doctoral Universities: Highest Research Activity
- \$600M+ in research expenditures in FY2015
- Sought to utilize digital communications to maximize impact, better engage with stakeholder groups, and elevate overall attention to their research
- "Star Wars Science" featured four stories in which Arizona researchers applied real-word science to the highly popular sci-fi Star Wars movie series
- Timed to precede a new film release, utilized #StarWarsScience, and promoted through Twitter, Facebook, YouTube, and LinkedIn Slide Share



LSU Uses Fact Sheets to Communicate With Legislators and Community

#### **Fact Sheet Creation Process**



Strategic communications team picked topics based on research strengths



Teams (1 writer, 1 photographer, 1 marketer) interviewed faculty



Designer created a fact sheet template



Teams filled in templates with information



Produced one-page fact sheets that communicated issues in Louisiana-specific terms and highlighted how LSU research was helping solve the problems



Brought along and handed out fact sheets to lawmakers when relevant bills or issues discussed



Lawmakers can share fact sheets themselves





### Case in Brief: Louisiana State University

- Public Research University in Baton Rouge, Louisiana
- Doctoral Universities: Highest Research Activity
- \$280M+ in research expenditures in FY2015
- Interim Vice Chancellor for Strategic Communications wanted to create fact sheets that could be given to legislators to show how LSU was planning to solve key problems

#### 2

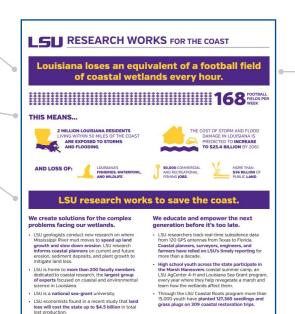
### Creative Design Makes Research Accessible and Meaningful to Audience

Uses relatable metrics (football fields) to show impact

Explains degree of problem and what it means for local community

Overview of how LSU research is tackling the problem

A companion video was presented on the jumbotron at the first LSU football game of the season, which has an average audience of over 100,000 people, and promoted to over 240,000 followers on LSU social media channels



of Louisianians believe that LSU's COASTAL RESEARCH

#LSURESEARCH

and involvement is VITAL TO THE STATE.

For more information, call the LSU Division of Strategic Communications at 225-578-8654



All fact sheets are available for download on the LSU Research Works website, which got 1,500+ unique views per month when LSU launched and promoted the campaign

Specific statistic stating the degree of public engagement, which is particularly important for a lawmaker audience



# David Vuletich, Ph.D. MBA Academic Strategy Lead Research Advisory Services

DVuletich@eab.com

www.linkedin.com/in/davidvuletich/



Washington DC | Richmond | Birmingham | Minneapolis | New York 202-747-1000 | eab.com