

Helping Faculty Communicate the Value & Impact of Research

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COMMUNICATE RESEARCH?

Reasons to communicate value & impact of research



Office of Research

COMMUNICATE RESEARCH?



COMMUNICATE RESEARCH?

Reasons to communicate value & impact of research

Research is largely taxpayer-funded

Universities' public mission
 (faculty should see this as an integral part of their research careers)

Helping faculty increase competitiveness

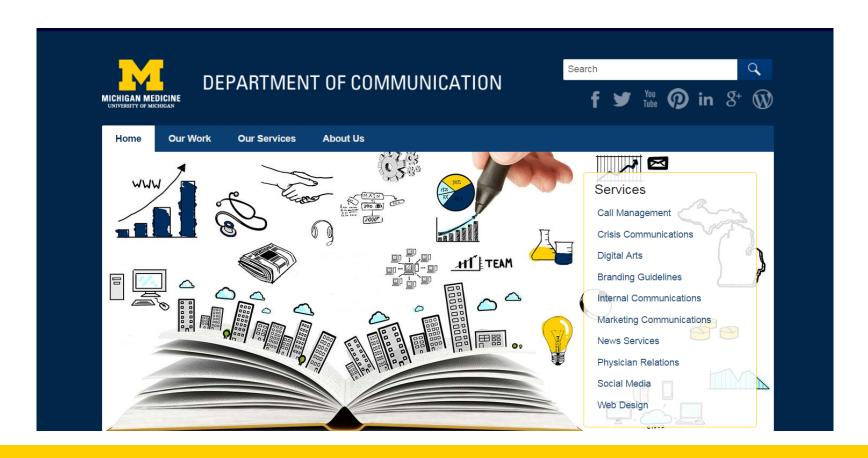


Helping faculty increase competitiveness

- 1. Alternative metrics
- 2. Name recognition



Helping faculty communicate



Helping faculty communicate



Managing a Research Operation

Industry-Sponsored Clinical Trial Contracting

Reporting Requirements

Record Retention

Communications

Common Communications Needs

Internal Audience Communications

External Audience Communications

Communications Training



Home > Office of Research > Administration > Managing a Research Operation > Communications

Communications

Whether you're looking for ways to publish the results of your latest research project, would like assistance with developing a website, or are just looking to spread the word about an upcoming event your lab is hosting, there are a wealth of resources throughout the UMHS and beyond that can help.

For quick access to some of the most frequently requested communications resources, check out the Hot Topics menu on the left.

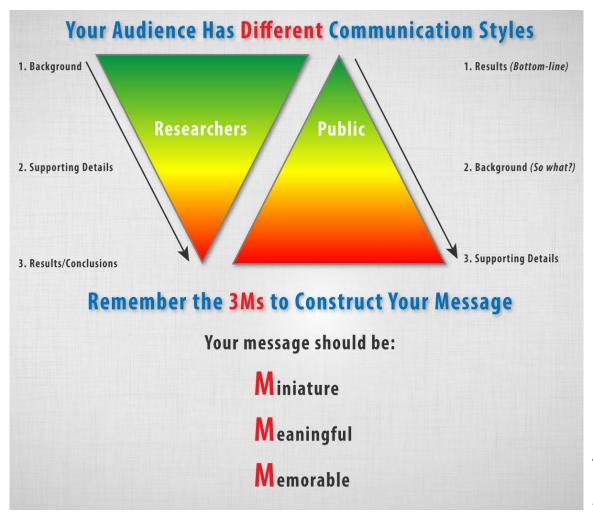
Common Communications Needs

Have a specific communications need that you would like to address? Visit **Common Communications Needs** for step-by-step instructions and resources to help you through many of the most common communications scenarios you're likely to encounter at the U-M.



Model adapted from the American Association for the Advancement of Science





Model adapted from the American Association for the Advancement of Science

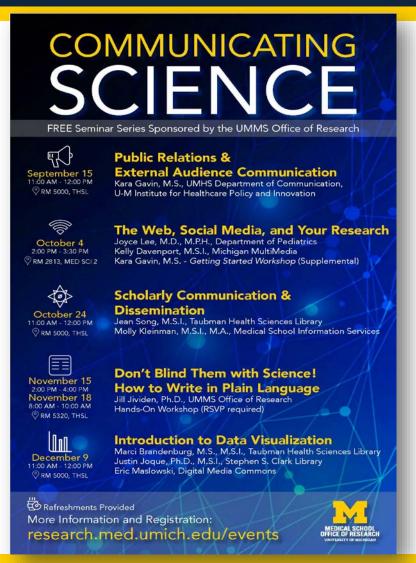


Helping faculty communicate

Common Communications Needs

- How do we get faculty & students to attend our workshop?
- My lab wants to...create a website/produce a video/increase citations for a recent paper.
- A photographer or video crew wants access to our lab. What do we do?
- Our grant proposal requires a lay summary or public outreach plan...

- 1. Public Relations
- 2. Social Media
- 3. Scholarly Communication
- 4. Plain Language
- 5. Data Visualization





Public Relations and External Audiences



"Only Connect: Reaching New Audiences via Public Relations & External Communications"

Presenter: Kara Gavin, MS

Lead Public Relations Rep Michigan Medicine Dept. of Communications

Public Relations and External Audiences



Purpose of PR:

- Our work should reach people who care
- Our faculty's expertise can have impact
- Taxpayers & policymakers need to know what they pay for
- Most Americans need science/medicine translated
- It's easier than ever to reach broad audiences

Public Relations and External Audiences



Audience & Science Literacy:

- About 20% of Americans can explain what it means to study something scientifically
- 53% extremely/very confident: childhood vaccines are safe & effective (30% somewhat confident)
- 31% extremely/very confident: life evolved through natural selection (24% somewhat confident)
- 80% very or moderately interested in scientific discoveries

AP poll published April 2014; 1,012 adults rated confidence in scientific concept



Public Relations and External Audiences

Audience & Science Literacy:



- Average U.S. reading level = 8th grade
- 20% of Americans read at 5th grade level or below
 - ➤ Includes 40% of seniors and 50% of minority groups

2003 National Assessment of Adult Literacy (NAAL)

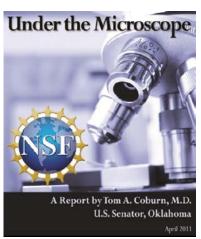


Public Relations and External Audiences



Challenges:

- Number who "closely" follow S&T news has declined since 2004
- 50% say that benefits of S&T research outweigh harm
- Policymakers
 - Take aim at "wasteful spending"
 - Seize on controversies & safety lapses
 - Staffers may have little scientific background



Public Relations and External Audiences

"Science literacy for individuals, communities, and societies emerges at the interface of the knowledge, attitudes, and motivation of laypeople and the communicative efforts and trustworthiness of scientists.

"The scientific community needs to take **at least partial responsibility** for creating an environment in which science literacy can thrive....

"We envision a society that is infused by science literacy...in the sense that there is a **shared belief that scientific expertise can be trusted, that scientific misconduct and fraud are rare, and that social organizations can and should be structured to enable science literacy rather than prevent it."**

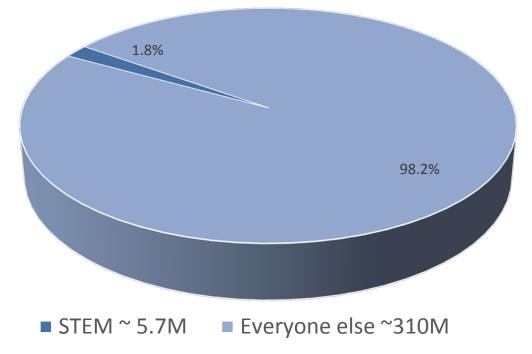
National Academy of Sciences, "Science Literacy: Concepts, Contexts, and Consequences," August 2016.



Public Relations and External Audiences

STEM Workforce v. US Population:





http://www.nsf.gov/statistics/2016/nsb20 161/#/report/chapter-3/u-s-s-eworkforce-definition-size-and-growth

Public Relations and External Audiences

Connect with PR reps:

- Plan best course
 - Writing, visuals, dissemination, timeline, handling controversial issues
- Can connect to media (e.g., expert opinion, press releases)
- Leverage embargo system (for publications)
- Get started online (website, social media, etc.)



Public Relations and External Audiences

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New Era of Communication:

- Traditional news media's gatekeeper role eroding
- Big institutions = trustworthy news sources, share directly
- Everyone's a publisher
- Visuals are vital
- Advice: publish institutional content in a way it can be used freely (& cited)

Public Relations and External Audiences

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Communicating with the public:

- Avoid jargon
- Speak their language (don't just hope someone else will do it!)
- "Robust" = an adjective for data? Or coffee?
- Does it pass the Thanksgiving Table Test?



Public Relations and External Audiences

Communicating with the public:



Logical organization

"You" and other pronouns

Active voice

Common, everyday words Short sentences, short paragraphs

Easy-to-read design features



Public Relations and External Audiences

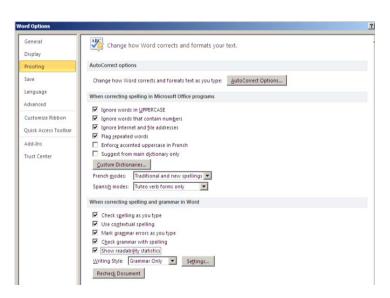


Communicating with the public:

- Define scientific terms
- Engage audience's imagination, emotions, senses

Flesch-Kincaid readability test in Word

- File>Options>Proofing>Show Readability Statistics
- If you get a score over 8th grade (without jargon words you can't avoid), revise!





The Web, Social Media, and Your Research



"The Networked Public Physician: Will You Take

the Plunge?"

Presenter: Joyce Lee, MD, MPH

Robert P. Kelch Research Professor of Pediatrics & Communicable Diseases

"Writing for the Web"

Presenter: Kelly Davenport, MFA, MSI

Web Project Manager Michigan Multimedia

The Web, Social Media, and Your Research







Be nice, be conversational, don't be mean, and don't talk about yourself all the time.

Just like in real life. #rwifcsp2014 #hcsm





Don't give up before you start. Be patient. Drop in, drop out, drop in. Follow interesting people and listen. #rwjfcsp2014 #hcsm



The Web, Social Media, and Your Research

Twitter & other online communities:

- As microblogging platform, place for conversation
- Descriptive, specific hashtags
- Value to science, <u>new discovery</u>
- Patient communities; getting patient perspective, empathy
- Elevator rule
- No-no's
 - Facebook photo op with placenta
 - Nurse fired for Instagram shot







The Web, Social Media, and Your Research





The Web, Social Media, and Your Research Writing for the Web:



- User/reader habits for consuming info
- Reader friendly techniques
 - Direct, concise
 - Active voice
 - Structure for intent
 - Avoid acronyms/jargon
 - Any reading level



www.useit.com

The Web, Social Media, and Your Research Writing for the Web:



Compare & Contrast

Naturalization: What to Expect

Naturalization is a way for a person to become a U.S. citizen. Below is a general overview of what to expect during the naturalization process. To learn more, read the <u>Guide to Naturalization</u>.

Complete your application. You have decided to apply for U.S. citizenship. Here is what to do next: Review the application instructions. Download the naturalization application. Get two passport-style photos taken. Collect all the documents and evidence you will need to complete your application. Fill out your application.

Review your work and correct any mistakes. Submit your application, two photos, documents and evidence, and the required fees. Find out where to file your application. Make sure to keep your address current with USCIS.

Appear for your biometrics appointment. After we accept your application, we will notify you if we need to take your biometrics: fingerprints, photo, and signature. We will send you an appointment notice if we need biometrics.

The notice will provide you the date, time, and location of the appointment. Appear at the location at the scheduled date and time on the appointment notice.

Compare & Contrast

Naturalization: What to expect

Naturalization is a way for a person to become a U.S. citizen. Below is a general overview of what to expect during the naturalization process. To learn more, read the <u>Guide to Naturalization</u>.





You have decided to apply for U.S. citizenship. Here is what to do next:

- Review the application instructions
- . Download the naturalization application
- . Get two passport-style photos taken
- Collect all the documents and evidence you will need to complete your application

After we accept your application, we will notify you if we need to take your biometrics: fingerprints, photo, and signature.

- We will send you an appointment notice if we need biometrics. The notice will provide you the date, time, and location of the appointment.
- Appear at the location at the scheduled date and time on the appointment notice.
- Dring the following decuments to the appointment



Scholarly Communication & Dissemination

"Scholarly Communications"



Presenters: Jean Song, MSI, Asst. Director

Taubman Health Sciences Library

Molly Kleinman, MSI, Project Manager

Health Information Technology

Services

- Data Management: Preservation & sharing, Retention & clinical data
- Public & Open Access, Publishing
- Measuring Impact: de-identifying w/ ORCiD, Metrics



Plain Language

"<u>Don't Blind Them with Science! How to Write in Plain Language</u>"



Presenter: Jill Jividen, PhD

w/ special guest Beth LaPensee, PhD

Plain Language

- What? Why? When?
- Principles of Plain Language
- Logical organization, active voice, common words, format
- U-M Library <u>Plain Language Medical Dictionary</u>
- Strategies:
 Simplifying language, using analogies, avoiding clichés

 Testing it out
- ➤ 3 small-group workshops (8-10), discussing examples, writing exercises





Data Visualization

"Introduction to Data Visualization"



Presenters: Marci Brandenburg, MS, MSI

Taubman Health Sciences Library

Justin Joque, PhD, MSI

Taubman Health Sciences Library

Eric Maslowski

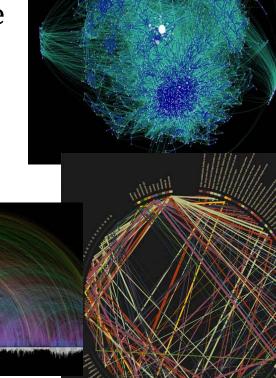
Digital Media Commons

Data Visualization

Overview:

- Visualization Landscape
- Design Principles
- Interpretation
- Campus Resources







Results

Online evaluations:

- 90 unique attendees included faculty, staff (RAs, RD, lab staff), post-docs, students
- 38 completed post-series evaluation
- 80.5% = Very or Somewhat Helpful
- Speakers: 100% Very or Somewhat Engaging

Comments/Suggestions

- "I am new to academia so it was extremely informative" (on Scholarly Dis)
- "More frequent!"
- "I would add a session on science activism, and related ethics, outcomes, and appropriate activities...."
- "I would appreciate more data visualization and communicating scientific information seminars. Maybe something on how to have conversations with people with opposing views in a post-truth world."
- "Nice overview of the topic and helpful to hear about resources at Umich. More focused seminars on specific areas of data." (on Data Vis)
- "Speaker were great." (on Social Media)



Critiques

- "Push the PDFs to attendees instead of making us go get them."
- "Opportunity for deeper dive beyond intro seminar.... Seminars were interesting but I didn't walk away feeling like I had any additional tools in my arsenal. Although I did at least have more awareness!"
- "The talk was a good start but not as comprehensive as I expected it to be. The presenters did provide suggestions for additional resources at the end of the talk, which was helpful." (on Data Vis)
- "The speakers were good, there was far too much information in an hour...having separate sessions that went more in depth or having a longer session would have been helpful." (on Data Vis)

Communicating Science Seminar Series

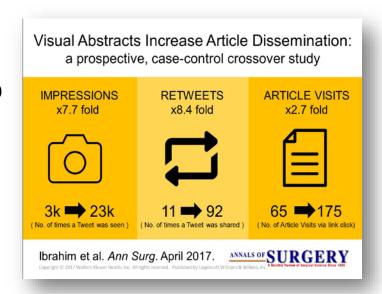
<Sigh>

- "Personal bias—prefer healthy snacks that keep us awake versus sugary snacks that make us crash quickly. But very nice to have refreshments at all!"
- "Not everyone can eat only cookies."
- Obligatory date/time/location/parking complaints

Communicating Science Seminar Series

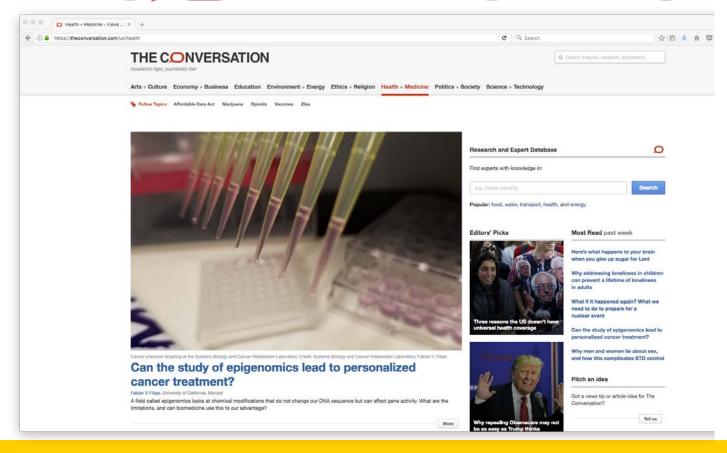
For next time:

- Data Visualization could be its own series
- Adding "Visual Abstract" workshop
- Add info re "The Conversation"
- Michigan Video Abstracts
- Push the PDFs & recordings to attendees
- Maybe more consistent times/ locations
- Healthier snacks





THE CONVERSATION







Why The Conversation?

- Broad potential audience
- Major Media outlet republishing
- Help from professional editors
- Attractive pages & imagery
- No paywall, CC licensing
- Cloud-based editing interface
- Trackable metrics
- Credibility of journalistic site
- Optimized for social sharing
- Moderated comments
- CV-enhancing



What they **DO** want

- Research-based evidence
- Around 1000 words
- Broad audience
- Informed opinion, commentary or explainers

What they **DON'T** want

- Going beyond your expertise
- A pre-written piece
- Political spin
- Self-promotion



Publishing Process



After You Publish



Social media

Individuals and institutions share via web and social media

Embargo (optional)

The Conversation can agree to not publish piece until a set date/time.











Republishing

The Conversation: 3.7 million users/month

Republishing: 35 million users/month

Timely Topics

Article can be shared again when the topic is timely.



Timely: Reactive

Timely: Proactive

Timeless

Last Last Next Next Next Month Week Today Week Month Year Decade

Timely:

Reactive

Timely:

Timeless Proactive

Commentary, context or relevant information related to a current event

Last **Month**

Last Week

Today

Next Week

Next Month Next Year

Next Decade

Why public health worries don't have to ruin your cookie dough



136,276 Views

Twitter

24

Facebook 432

in LinkedIn 5

July 14, 2016



Brian Zikmund-Fisher

Associate Professor of Health Behavior and Health Education, Interim Co-Director of the Center for Bioethics and Social Sciences in Medicine, University of Michigan

Timely:

Reactive

Timely: Proactive

Timeless

Goal is to push new ideas into the public awareness.

Journal article just came out, and The Conversation article is released simultaneously for more impact

Last Last Next Next Next Month Week Today Week Month Year Decade



8,923 Views

Twitter

f Facebook 68

31

in LinkedIn 4

Sept. 28, 2016



Roger L. Albin

Professor of Neurology, University of Michigan



Kenneth Langa

Professor of Medicine and Health Policy, University of Michigan

Timely:

Reactive

Timely: Proactive

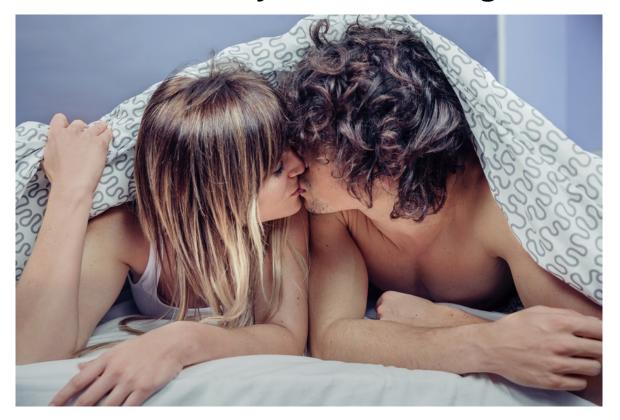
Timeless

Commentary and analysis that is <u>always relevant</u>.

Something people will find interesting any day.

Last Last Next Next Next Month Week Today Week Month Year Decade

Sex and other myths about weight loss



851,000 Views

Twitter 32

f Facebook 35

in LinkedIn 6

June 28, 2016



Tammy Chang

Assistant Professor, Family Medicine, University of Michigan



Angie Wang

Resident, Department of Family Medicine, University of Michigan

Timely:

Reactive

Timely: Proactive

Timeless

A timeless piece can become timely due to current events

Last Last Next Next Next Next Month Week Today Week Month Year Decade

What are septic shock and sepsis? The facts behind these deadly conditions



77,000 Views



June 6, 2016



Resources & References

Communicating Science Seminar Series: PDFs & recorded seminars

- AAAS Center for Public Engagement with Science: http://www.aaas.org/pes
- "For Doctors, Social Media a Tricky Case," Chelsea Conaboy
- Health News Review <u>Toolkit for Journalists & Consumers</u>
- How to Science: U-M LSA Podcasts
- Joyce Lee's SlideShare presentations:
 https://www.slideshare.net/joyclee/presentations
- Michigan Health Lab blog: michiganhealthlab.org (for research)
- Michigan Health blog: michiganhealthblog.org (for health: lifestyle, wellness & prevention, health management)
- <u>National Science Foundation Science & Engineering Indicators, 2014</u>
- NIH <u>Checklist for Communicating Science & Health Research to the Public</u>



THANK YOU!

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