

# Communicating the SD S&T plan & managing the media

Adapted from "The Ultimate Media Interview Checklist," from Udemy and Elena Verlee, creator of PR in Your Pajamas.

Sources: http://www.statisticbrain.com/fear-of-public-speaking-statistics and http://www.orau.gov/cdcynergy/erc/content/activeinformation/resources/Covello\_bridging.pdf

Courtesy of SDSU Marketing and Communications Dept



# Mike Ray Media Relations Manager

Over 30 years in journalism and communications

- South Dakota Mines geology graduate
- 24 years as a public radio journalist.
- 7 years in communications with South Dakota Mines
- Grew up in the Black Hills
- I'm passionate advocate for SURF

# Strategic Communication Thinking



- 1.) This is a genuine plan
  - a. Focuses on our strengths
  - b. It's up to us to articulate this plan
  - c. We need to create a movement
- 2.) Think about making the case for STEM education and research
  - a. Answer the "why" question
  - b. Develop unified messaging
- 3.) How to wag the dog

#### 2.) Make the case for STEM research—show the ROI



#### Geothermal research at America's Underground Lab can bolster U.S. energy independence in the digital age

The deepest laboratory in the United States provides a unique test bed for the study of enhanced geothermal systems.

MAY 08, 2025



#### SURF completes Wastewater Treatment Plant upgrade with team of South Dakota contractors

SURF recently completed a major upgrade to the wastewater treatment plant, ensuring many more years of clean water in local streams.



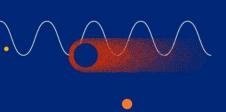


## The future of quantum might just be underground

Quantum sensors and quantum computers may benefit from a reduction in cosmic-ray muons offered in places like the Sanford Underground Research Facility (SURF) in Lead, SD.

JUNE 10, 2025



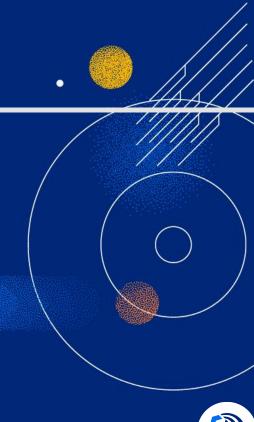


# Why should I care?

Why does research at SURF on dark matter, neutrinos, extremophiles, or geothermal energy matter?

 How do you answer these questions for your research?

Three reasons





# Reason 1

The story of the microwave!!





# The Arc of STEM Innovation



Engineering and Design

Theory and the Language





**Technology** Integration and **Improvement** 







# Ada Lovelace

The first computer programmer

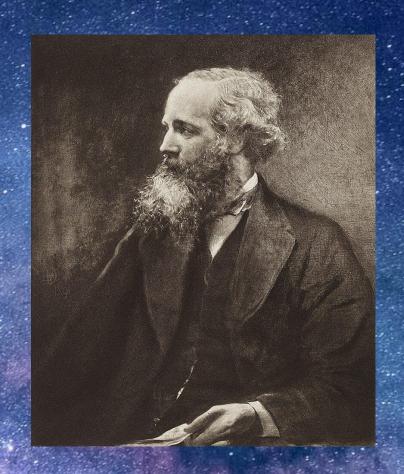
Writing Programs in the 1840's!!

Math is the language of computers



## The applications might be beyond our dreams





## Reason 2

# **Sputnik**

The Russians beat us to space in 1957 and kicked off the Space Race.

We won the Space Race -- with a whole lot of American ingenuity and resources

Today we are in a new version of the Space Race – and its underground





#### Reason 3



#### **Areas of Economic Impact**

In South Dakota and around the world

- Research is industry
- Supporting the world-class science at America's Underground Lab is a large undertaking
- The results of a \$2.2-billion impact and 1200 jobs on the South Dakota economy yields significant income for businesses across the state.
- 17 X ROI to date and climbing



# It's up to us to communicate the value of this plan

and work with industry

#### Strategy

The strategy consists of five key initiatives:

- 1. Advance technology commercialization and the growth of innovation-based companies in South Dakota.
- 2. Increase research and commercialization activity at higher education institutions by improving system-level operational effectiveness.
- 3. Develop a South Dakota "grow our own" STEM talent initiative to expand the workforce pipeline.
- 4. Launch a 10-year \$50 million state initiative to invest in university-industry research commercialization, faculty, and the STEM talent pipeline.
- 5. Develop a plan to leverage federal investment to build public-private research and commercialization partnerships in high-priority opportunity areas:
  - cybersecurity and data analytics
  - deep underground science and engineering
  - bioprocessing and precision agriculture

- clinical research, health care, and computational science
- critical minerals, environmental science, and water

# Managing the Media



1.) Know your audience

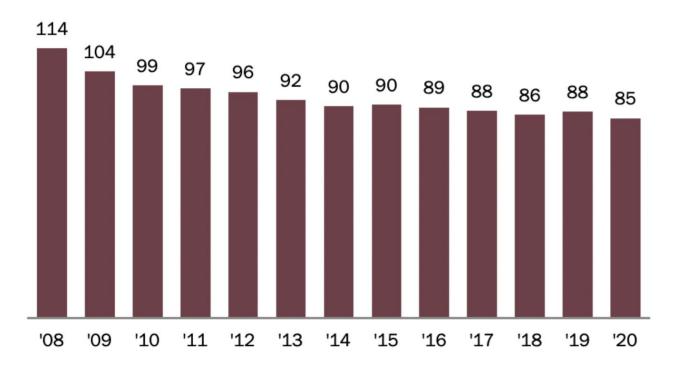
2.) Set the hook

3.) Wag the dog

# **U.S. Newsroom Employment**

## Newsroom employment in the United States declined 26% between 2008 and 2020

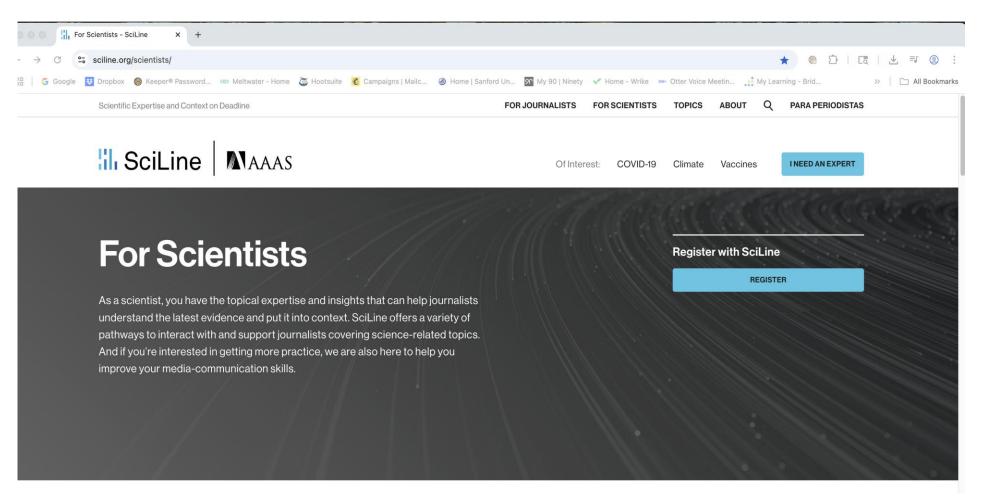
*Number of U.S. newsroom employees in news industries, in thousands* 



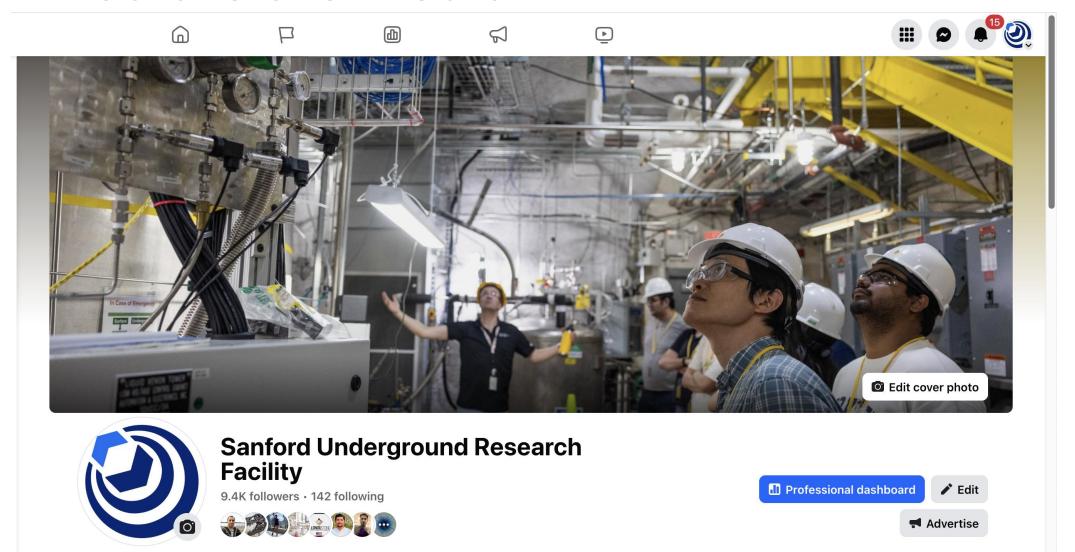
# **Setting the Hook**

Check out AAAS SciLine website and extensive resources for scientists

https://www.sciline.org/scientists/



## You are the media



# Wag the dog

#### Science and journalism have a lot in common

- Journalists must publish or perish
- Journalists want to be accurate
- Journalists want to be first

#### Some things set the two apart

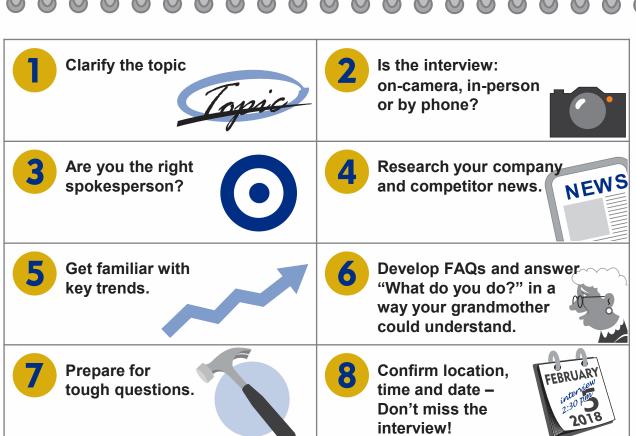
- Journalists publish on a very different time scale
- Nuance matters less to journalists
- Many (but not all) media exist to sell advertising

#### Media will move forward with or without you

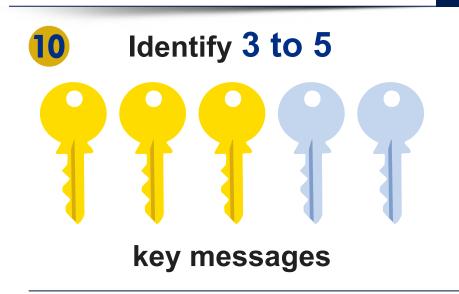
- Be ready to try and convince the reporter weather the story is to is not worth covering
- Be ready to help the reporter switch focus to the better part of the story
- Respond quickly: Reporters need fast turn-around times. They write in less than half a day. Be sensitive to their deadlines.
- If you need to turn down an interview: Recommend a trusted colleague or send them to another expert or field of study
- Set boundaries: If you are only free for 15 minutes at 2 p.m., let them know. Or if you are getting on a plane and can only comment via email – say so.

#### **Before the Interview**





#### **Know Your Key Messages**





#### 12 Have statistics at hand

Size of the overall market you're in.

Slice of the market you're going after.

Target audience demographics

What influences your target audience.

Trends or give color to your story.











#### **During the Interview**

- **Eliminate distractions:** Turn off phones, remove change from pockets
- Body language: Speak slowly, smile more, make eye contact If it's an on-camera interview Look at the reporter.
- 19 If you cannot answer a question, use a bridging statement to get back to your messages

- **Embrace silence:** Deliver your answer to each question, then stop talking
- **Short is sweet:** Don't talk for more than a minute—ideally less—without a break
- You may not be quoted in the end:
  You may have still driven
  the direction of the story

"I cannot speculate on that..."
"That may be true, but..."
"I see your point..."

"...and what's important to know is..."

"...and what this all means is..."

"...if we take a look at the bigger picture..."

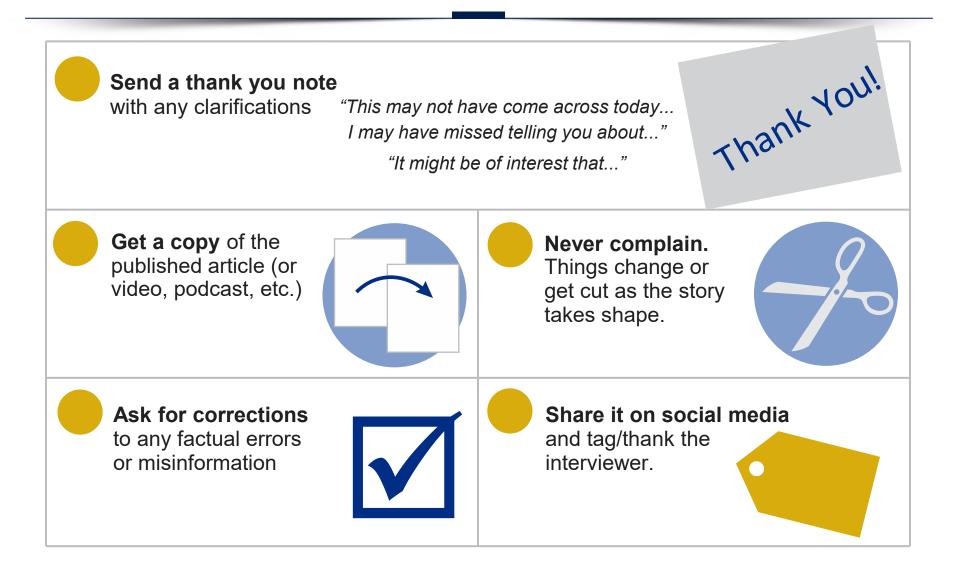
#### **During the Interview**

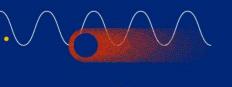
#### Control the interview:

- Talk about what you know and share your passion. Don't let an interviewer lead you outside your area of expertise.
- Don't speculate: Stick with facts.
- **Finish your answers.** Don't let an interviewer interrupt you.
- Don't offer personal opinions.
   Remember, you represent your organization.
- If you don't know the answer, say so. You can offer to get back to an interviewer with additional information later.

- Don't respond to questions based on unknown sources.
- Don't ever respond with "No comment." That can imply you are evading an issue or have something to hide.
- Don't discuss people or organizations other than your own. Return to or repeat your messages to regain control.
- Do not lose your temper, attempt to argue or get into a fight with anyone in the media.
   YOU CANNOT WIN.

#### **After the Interview**





# For questions or guidance: Mike Ray cray@sanfordlab.org





#### SANFORD UNDERGROUND RESEARCH FACILITY

The Institute at SURF

Neutrino Day

SURF Visitor Center