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Catching the Media Wave: How to Market your Research to the Press and the Public **Gregory G. Howes** University of lowa

Ecosystem for Collaborative Leadership and Inclusive Innovation in Plasma Science and Engineering Alexandria, Virginia 9-11 Mar 2022



Communicating Your Science

- Inspiring the public:
- Various Outreach Efforts:
 - Outreach Events to Schools
 - Public Talks
 - Blog Posts, Instagram, other Social Media
 - Press Coverage
- Grabbing the Attention of the Press:
 - Significant investment of time and preparation, mixed with a little luck
 - Great way to reach a vast audience

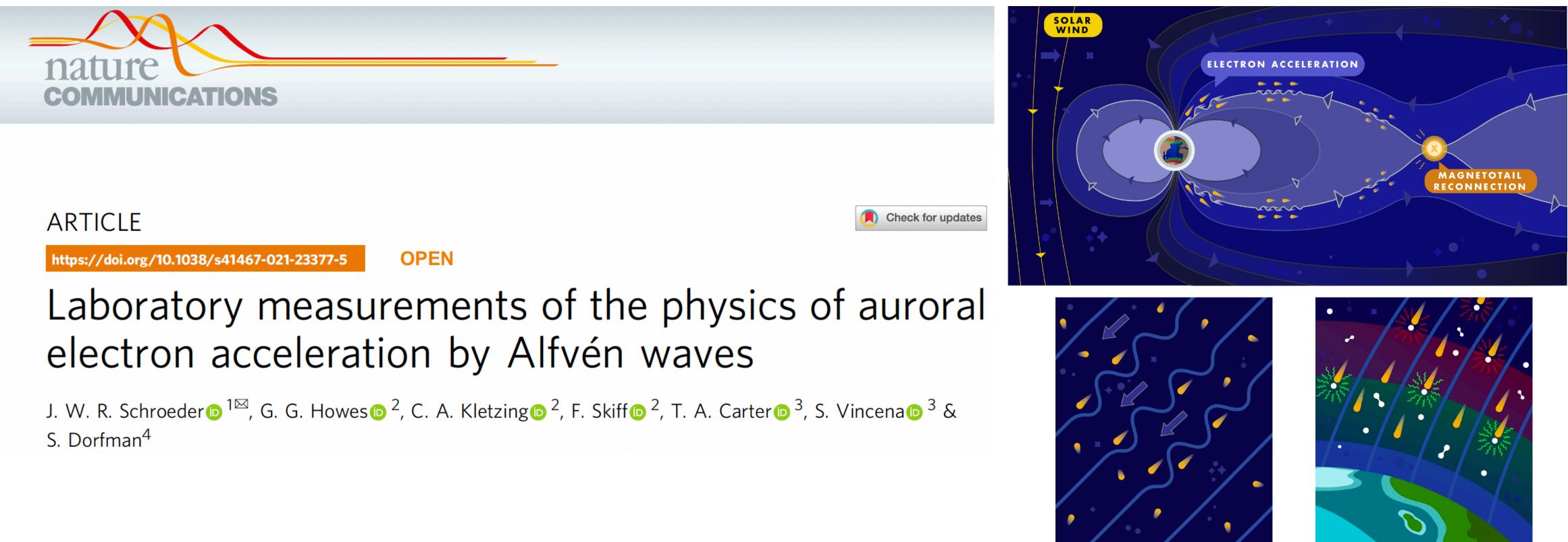
As federally funded scientists, and also often as faculty members at universities, it is part of our job to inspire the public with news of our scientific discoveries





When Press Outreach Goes Well

June 7, 2021: Press Briefing at American Astronomical Society June Meeting



Well planned and coordinated efforts lead to heavy coverage in the international press





Radio and TV Interviews

- Live Interviews:
 - ABC Radio (Sydney, Australia)
 - KCBS All News Radio (San Francisco, CA)
- Pre-Taped Interviews:
 - Iowa Public Radio
 - Science Friday, National Public Radio
- TV News Coverage:

 - KCBS (Los Angeles, CA)

- Iowa's News Now, KGAN CBS2 and KFXA FOX28 (Cedar Rapids, IA)



When Press Outreach Goes Well

Altmetric

Laboratory measurements of the physics of auroral electron acceleration by Alfvén waves

Overview of attention for article published in Nature Communications, June 2021



About this Attention Score

In the top 5% of all research outputs scored by Altmetric

Mentioned by

11 blogs

40 tweeters

183 news outlets

1 Facebook page

1 Wikipedia page

1 video uploader

MORE...

SUMMARY	News	Blogs	Twitter	Fac	
Title	Laboratory measure	ments of the ph	ysics of auroral ele	ctron acc	
Published in	Nature Communications, June 2021				
DOI	10.1038/s41467-021-23377-5 🖸				
Pubmed ID	34099653 🖸				
Authors	J. W. R. Schroeder, G	. G. Howes, C. A	. Kletzing, F. Skiff, T	. A. Carte	
	TWITTER DEM	OGRAPHICS			
	research output ha				

ALL RESEARCH OUTPUTS



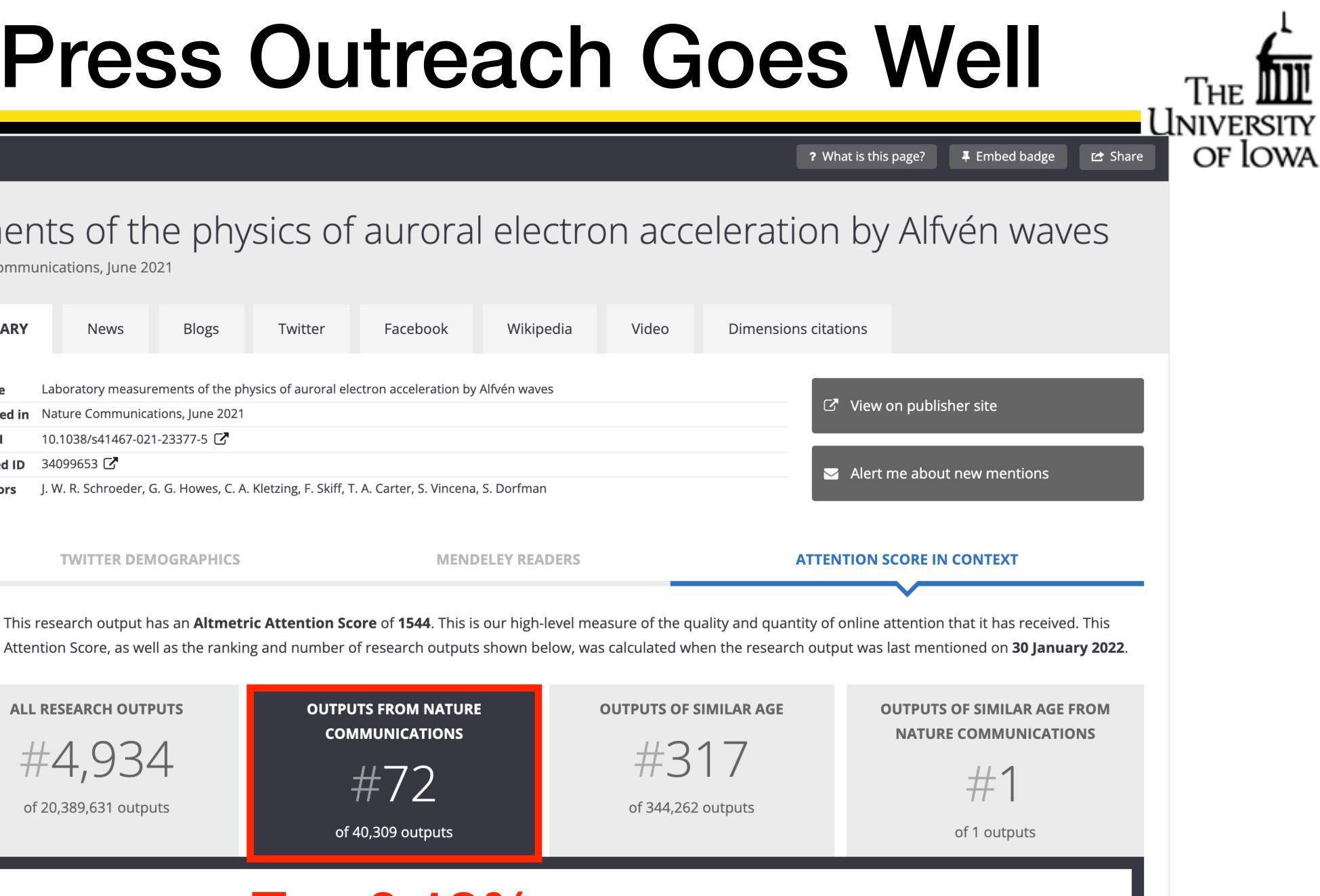
of 20,389,631 outputs

OUTPUTS FROM NATURE COMMUNICATIONS

#72

of 40,309 outputs

Citations



How to Catch the Media Wave

Timing and Preparation

Below I will outline steps for staging a successful effort of outreach to the press:

- I. Start early
- 2. Reply Promptly
- 3. Large Investment of Time and Effort

- Success requires a lot of coordination between many different offices

- We're all busy, but don't let unnecessary delays hamper your efforts

- The payoff can be very big with an effective press outreach effort!



Is This Result Worth Concerted Press Outreach?

Is this result newsworthy?

Be honest with yourself in assessing:

- Is this a significant result worthy of extra efforts to communicate to the public?
- Can the result be placed into the context of something important the public?
 - Astronomy results often are of broad interest
 - Clean energy and fusion power also grab the public's attention

Place the result into the context of a broader, interesting problem.

Effective Outreach to the Press and Public is a lot of work, but worth it if executed properly



-We're all excited about our work, but some results don't resonate with the public







Present at a Professional Society Meeting

Biggest Bang for your Buck!

- Coordinating the publication of your results with a major meeting helps a lot - APS Division of Plasma Physics Meeting

 - AAS Winter or Summer Meeting - AGU Fall Meeting
- Your work can be presented at a Press Briefing sponsored by the society - A pool of science reporters will attend, giving a broad reach
- High Impact Journals (Nature, Science, Physical Review Letters, etc.) can coordinate with the society press officer to time publication during the meeting
 - Both the society press officer and the publisher will reach out to the press







Contact Your Institution's Communications Office

The Most Important First Step

Many institutions have different names for this office: - Office of Strategic Communication

- Press Office
- Public Affairs Office

The Communications Office staff can help guide you through the process - How to prepare yourself to present your science clearly and concisely

- How to communicate effectively with science reporters
- What to expect during the press embargo and press briefing

Contact your local Communications Office as soon as you have decided to outreach to the press and public



Press Embargo and Publication

Press Embargo

- You also cannot publicly present your results before the embargo is lifted - An embargo prevents stories on your results until a specific date and time - For a limited time before publication, the press will be given access to the research (and you) to prepare news stories

of the embargo

- When coordinated with a Press Briefing, the embargo is lifted and the paper is published upon commencement of the briefing

- The publisher will dictate the timing of publication and terms of any press embargo
- If presenting at a major meeting, the publisher will coordinate with the press officer

- This enables many news outlets to release stories immediately upon lifting



Prepare a Press Kit

Press Kit

- Provide detailed information, graphics, contact information to reporters - Creating the press kit is great training:
- - Eliminate jargon
 - Practice clear and concise communication
 - Refine analogies to communicate the science content
- Make connections to topics familiar to the public
- Take the stress out of presenting all information verbally during interviews
- Likely leads to more accurate news stories about your science results
- Publisher or professional society can host Press Kit for access to reporters



Contents of a Press Kit

Key Information in Press Kit

- Clear statement of embargo Date, Time, and Time Zone at top!
- Varying Levels of Description:

 - Single Paragraph Description
 - One Page Description
 - Detailed Scientific Background
- What was actually done?
- List of Funding Support
- Contact Information for primary authors
- Embargoed Copy of Publication



- Media "Sound bite": 3 or 4 sentences with context, result, and implications

• Library of any supporting graphics, images, or movies: Include source and credit



Contents of a Press Kit

Optional Information in Press Kit

- Quotes about the work from authors, funding agency program scientists, etc.
- List of Graduate Students and Postdoctoral Researchers Trained
- Technological and Scientific Achievements
 - New instruments
 - New methods developed or used
- Other Related "Big Picture" Issues
 - Ex: "Space Physics in the Laboratory"
- References



Images in Press Kit

Alaskan Aurora 11.9



Figure 9: Alaskan Aurora: The aurora borealis captured in Alaska by photographer Jean Beaufort. The shimmering and swirling curtains of green light are typical of discrete auroral arcs occuring during geomagnetic storms. These green sheets of light dance in the night sky at an altitude of 100-200 km (60-120 mi). Credit: Jean Beaufort, CC0 Public Domain license.

License: CC0 Public Domain

Jean Beaufort has released this "Northern Lights" image under Public Domain license. It means that you can use and modify it for your personal and commercial projects.

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File: AlaskanAurora.jpg
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Source: https://www.publicdomainpictures.net/en/view-image.php?image=298659& picture=northern-lights

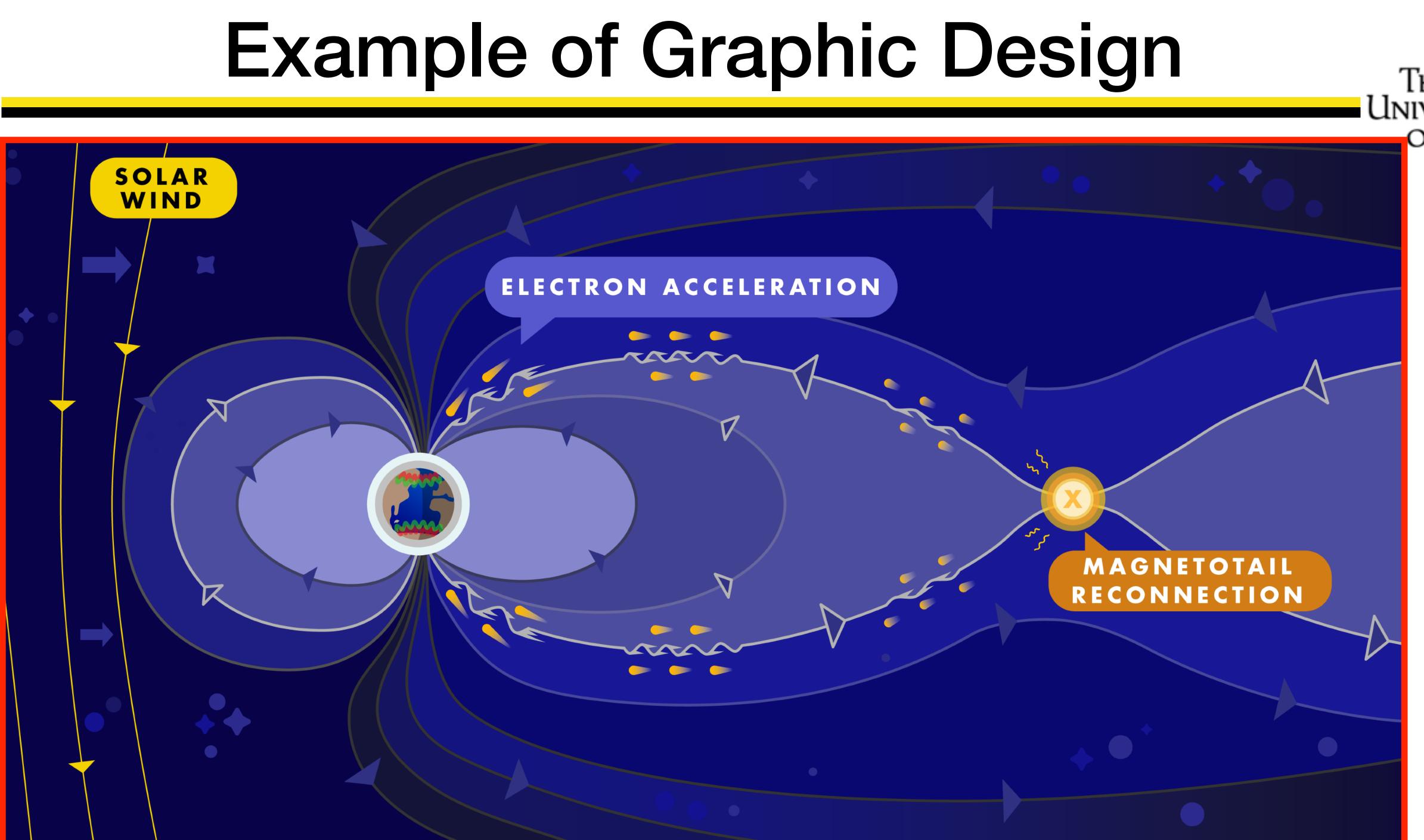


Work with a Graphic Designer

Many institutions employ graphic designers on staff

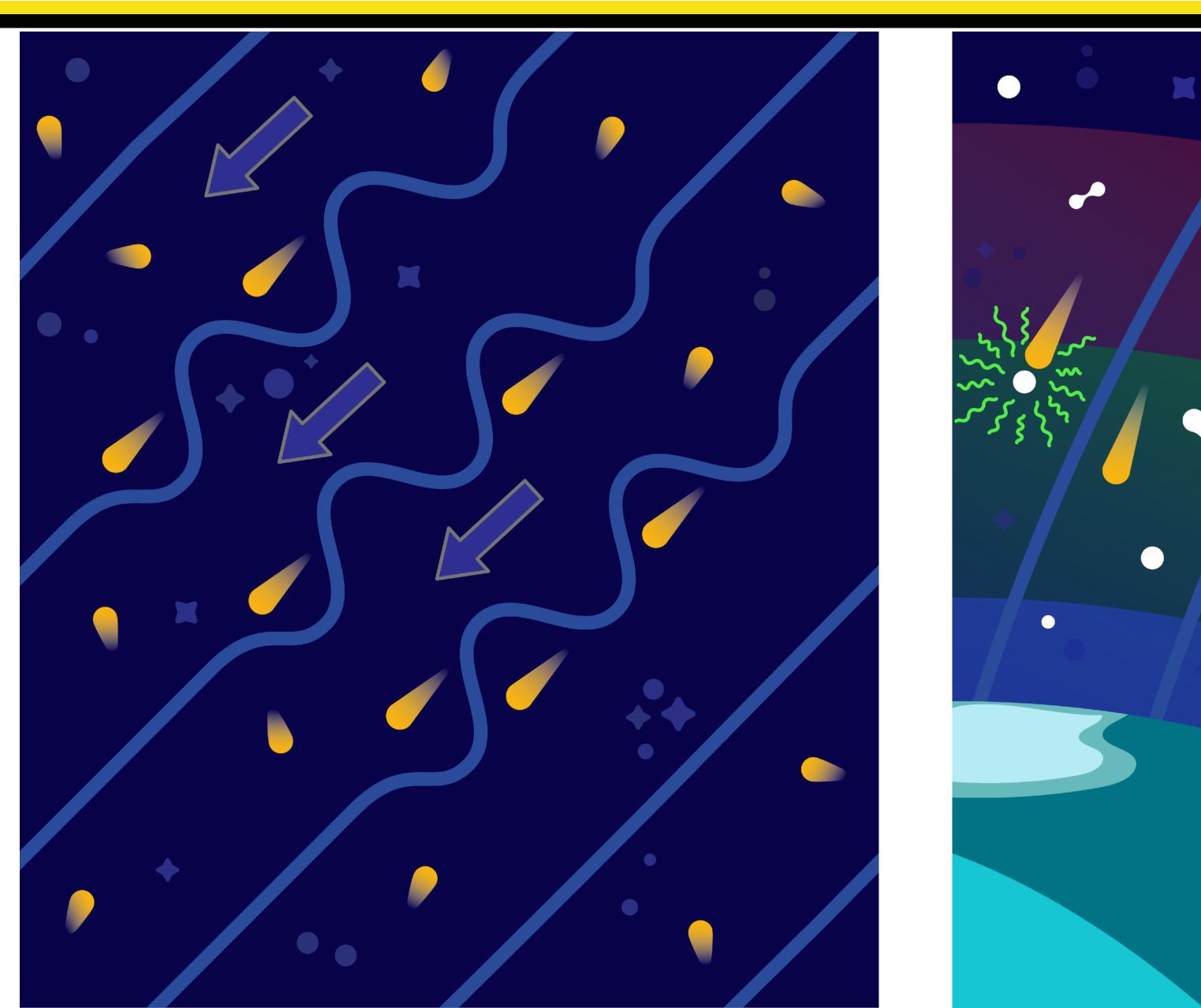
- Help create beautiful promotional materials for institution
- Sometimes work with scientists on major proposal efforts: centers, missions, ...
- Not frequently used for public relations/media outreach—but right skill set!
- Rarely have scientific training
 - Lots and lots of iteration will be necessary
 - But the outcome is fabulous graphics that tell the story of your research
 - Disseminate to the press
 - Use in public outreach talks, or even in your own research talks

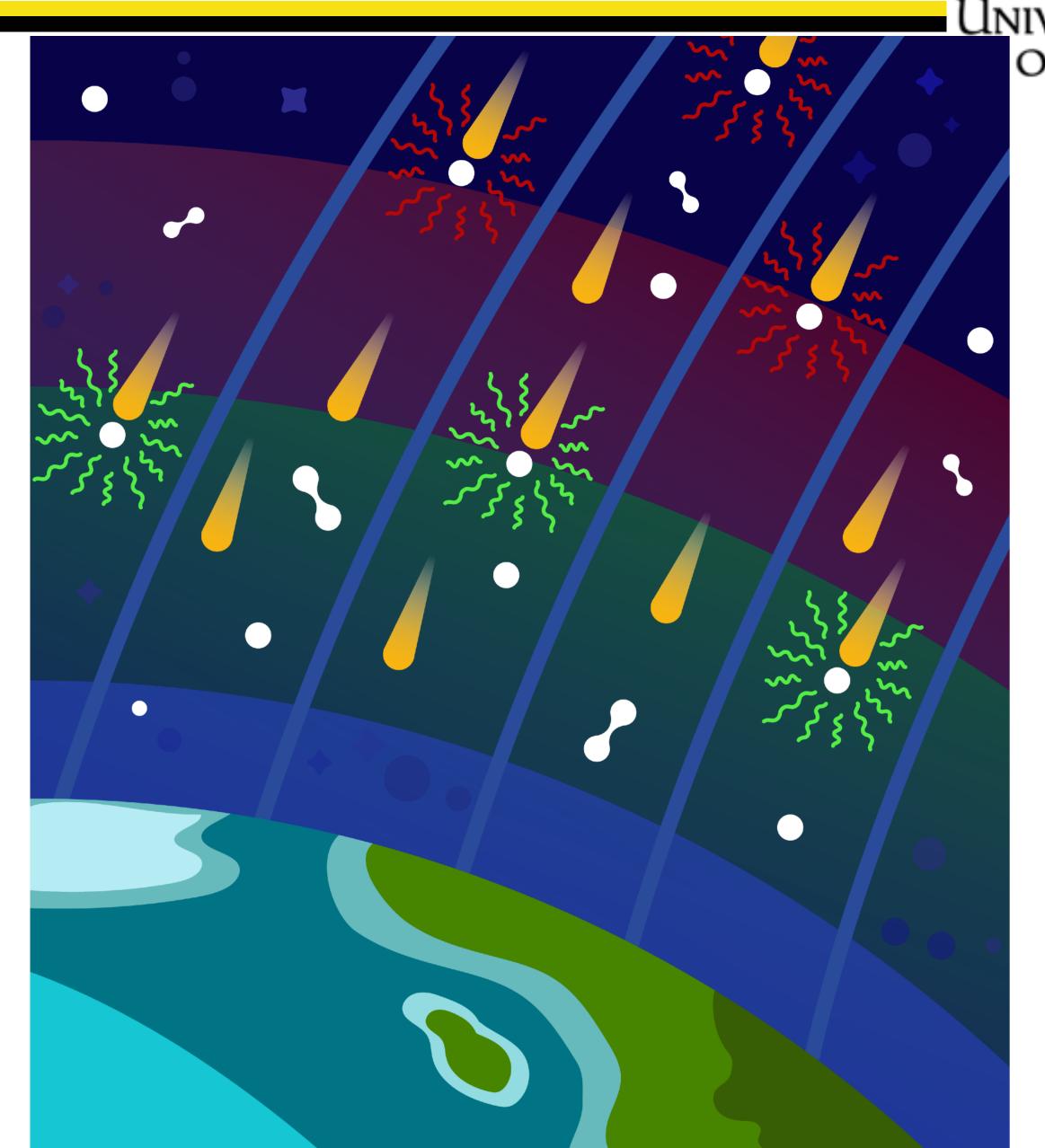






Additional Graphic Design







Media Training

Some Institutions provide "Media Training" to researchers - If available, do take advantage of this opportunity

- - At University of Iowa,
- Eliminate the jargon
- Practice a concise (few sentence) description of your work
 - Training may involve video interview and critique



"Communicating ideas: It's not rocket science" inaugural workshop in 2013 - Collaboration with School of Journalism and Mass Communication

Tips on Interacting with the Press

- When contacted, respond promptly
 - Reporters have short and hard deadlines
 - If it's not fresh, they often will not run it
- Assume everything is "On the record" - Telling them something, and then saying "That's off the record", may not work
- Eliminate the jargon (and NO ACRONYMS—really!)
- Devise nice analogies that the public can understand - Example: Turbulence when mixing cream into coffee
- For Radio/TV interviews
 - Typically they will have a pre-interview:
 - Can you speak clearly? Gives you a heads up on questions they will ask!





Press Release

How to write a good press release

- Structure
 - Headline: Short and Pithy, but not cryptic
 - Subhead: Summarize story in one sentence
 - Opening: Paragraph with who, what, where, when, and why it's important
 - Body: Details, explanation, background—not more than 1000 words.

Your institutional Communications Officer will to craft a press release with you - If more than one institution is involved, there may be more than 1 press release

- Should read like a good news story: Important new results in the first paragraph





Example Press Release: UCLA



scientists has resolved one of the final mysteries surrounding its origin.

Scientists know that electrons and other energized particles that emanate from the sun as part of the "solar wind" speed down



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	JOURNAL Nature Communications DOI 10.1038/s41467-021-233	77-5	
	KEYWORDS ELECTRONS ELECTROM	/AGNETIC \	WAVES



- T 6 months: Submit abstract to professional meeting
- $T-3 \ \textbf{months:} \qquad \text{Nearing, but before acceptance of your article, contact your institution's Communication Office}$
- T-2.5 months: Begin putting together your Press Kit
 - Collect supporting photos/images
 - Contact institutional graphic designer
 - Begin drafting descriptions aimed at science reporters
- T 2 months: Final Manuscript corrections and formatting



- T-6 weeks: Manuscript acceptance
 - Note: Processing of proofs typically requires 4 weeks minimum - Confirm production timing with publisher
- T-6 weeks: Coordinate with Press Officer of professional society and Communications Manager of publisher to set date and time for press embargo, publication, and press briefing
- T-4 weeks: Complete First Full Draft of Press Kit
 - Ask for feedback from co-authors, communications office
- T 4 weeks: Article Proofs
- T-3 weeks: Complete Graphics with graphic designer







- Get institutional communications office in touch with public T-3 weeks: affairs office at funding agency
 - Communication Officers will prepare Press Releases
- T-2 weeks: Solicit quotes for Press Kit (authors, funding agencies, etc.) Determine who will host Press Kit (Publisher, society, institution)
- Ensure that all relevant Communication and Public Affairs T-2 weeks: Offices are in contact.
 - Be wary of "too many cooks in the kitchen"
 - Stay on top of things—prod individuals when necessary
- Prepare Presentation for Press Briefing T-2 weeks:
- T-1 week: Press Kit is released to the media, under embargo





- Press Officer of professional society and Communications T-4 days: Manager of publisher will reach out to press contacts - Example: AAS Press Officer emails to list of 1700 reporters - "Squeaky wheel gets the grease!" Take a deep breath! Embargo expires
- Liftoff!: Paper is published Present at Press Briefing
- Clear your schedule (for 1 week) to respond to interview requests **T** + 1 week:
 - Some live interviews, some pre-taped, some for print
 - Some will just ask questions by email
- **Enjoy the Ride :** Your 15 minutes of fame will be over in a flash!







Altmetric

Laboratory measurements of the physics of auror

Overview of attention for article published in Nature Communications, June 2021

	SUMMARY	News	Blogs	Twitter	Facebook	
	Title	Laboratory measur	rements of the pl	nysics of auroral ele	ectron acceleration	
	Published in	Nature Communica	ations, June 2021			
1544	DOI	DOI 10.1038/s41467-021-23377-5 🖸				
	Pubmed ID	34099653 🔀				
	Authors	J. W. R. Schroeder,	G. G. Howes, C. A	. Kletzing, F. Skiff, T	. A. Carter, S. Vince	
		TWITTER DEM	OGRAPHICS		ME	
About this Attention Score In the top 5% of all research outputs scored by Altmetric		research output ł ntion Score, as we				
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Mentioned by	1	4,93 [,]	Δ			
183 news outlets	/	17,55	Т		#72	
11 blogs	о	f 20,389,631 outp	uts			
40 tweeters				of	40,309 outputs	
1 Facebook page						
1 Wikipedia page						
1 video uploader		r Altmetric has t tion Score of 54			•	
Citations						
2 Dimensions						

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: Wikipedia Video [Dimensions citations		
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Media Monitoring Service: Market Value

- Cision, Media Monitoring Service
 - Identified 477 media items (between 6/7/21-6/13/21)
 - Determines "Ad Equivalency Value"

Total Advertising Value: \$412,824.67

- Significant Items:
 - CNN: \$71,000
 - NPR: \$25,000
 - BBC: \$183,000
 - Daily Mail (UK): \$34,000
 - CTV News (Canada): \$10,000



Resources

Where Can I Access this Information?

- I have posted the following information to my University of lowa faculty webpage:
 - PDF copy of this presentation
 - An example of the Press Kit used for our media outreach - A PDF of the helpful guidelines presented (still in progress)

 - https://homepage.physics.uiowa.edu/~ghowes/teach/index.html
 - or just search "Gregory G Howes" on Google
 - gregory-howes@uiowa.edu









Five Golden Rules for Communicating with the Media T_{THE}

- i) **Prep and Ponder**: responses, out loud!
- ii) Frame and Focus:
- iii) Short is Sweet:

Understand reporter's time needs. Be "sound bite smart." Say what you need to say, then stop.

- iv) Jettison the Jargon:
- v) Good and Gracious:

Dress the part. Be real. Be gracious. Engage the reporter: "Do you need me to repeat anything?"

Know the format and get ahead of it. Anticipate questions, think through and rehearse

Craft a message that includes only the points you must make. Keep focused on it.

Use everyday language. Clarity is king. Your message could get lost in translation.







