

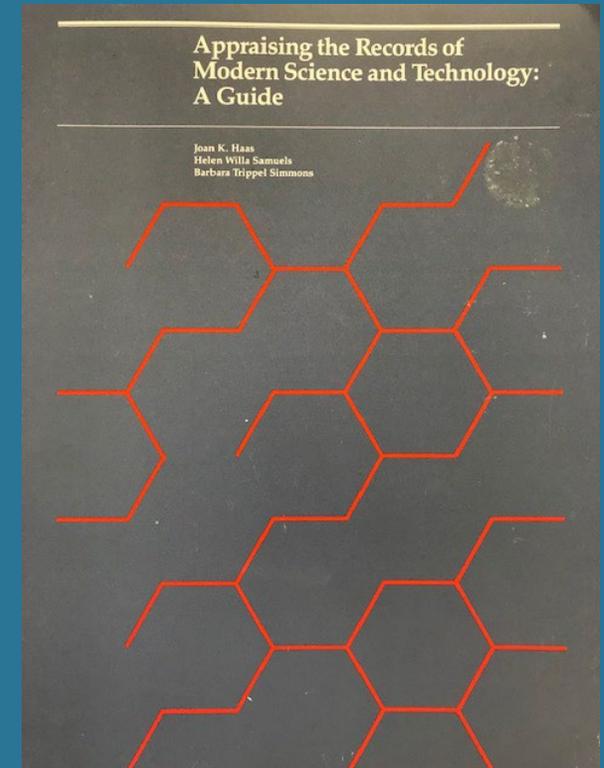
# *REAPPRAISING APPRAISING THE RECORDS OF MODERN SCIENCE AND TECHNOLOGY*

## A Progress Report

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# ABOUT APPRAISING THE RECORDS OF MODERN SCIENCE AND TECHNOLOGY: A GUIDE

- Published by Joan K. Haas, Helen Willa Samuels, Barbara Trippel Simmons in 1985
- Monograph-length functional analysis of the records of science and technology
  - Separated into major functions (Personal Activities, Professional Activities, Administration of Research and Development, Research and Development, Dissemination) and sub-functions/activities
  - Each function is defined and records reflecting that function are enumerated and described
- Remains the definitive text for appraising and selecting science and technology archives



# WHY REAPPRAISE?

- Is “modern” science and technology practice as of 1985 still modern?
- How have computers and the Internet changed science and its resulting records?
- How have open science and open data changed scientific practice?
- Should we rethink what constitutes “scientific archives”? Include specimens?
- Is the *Guide* inclusive of all institutions “doing” science and managing scientific records?
- Do Haas et al. sufficiently address diversity, equity, inclusion, and accessibility (DEIA) in science?
- What about access and use?

# ABOUT US

Informed by three distinct but overlapping perspectives:

- Science and technology-focused records and personal papers at a university (Bethany)
- Archives in health sciences university (Polina)
- Organizational archives in government-funded research laboratory (Jordon)

# OUR METHODOLOGY: GAP ANALYSIS

Function	Record type in Samuels	Contemporary match	Gap notes
	Research notes	Research notes	
	Grant and contract proposals	Grant and contract proposals (possibly managed centrally)	
	Correspondence with peers	Email with peers	
	Memoranda with peers, department heads, administrators	Emails and formal memoranda (as PDFs)	
Hypothesizing, thinking, and visualizing	Information files: Files of other individuals' work (preprints, etc.)	Information files (challenge: may not be well organized, stored in various places)	
Planning experiment			
		Same but are online and can be made available as preprints, postprints, and available in several places (e.g., journal website, institutional repository)	Journal articles are more likely to be digital
Conducting experiments and analyzing data	Journal articles		
	Technical reports	Same, but could be in several locations like journal articles	
	Interim reports	Same	
	Correspondence with grant agencies/funders	Same, but probably email	
	Data records	Same, but many formats and likely digital. Also probably not all in one place	As noted, this is likely digital data. And it could be shared on social media. A lot of data is likely to be shared on social media. This seems less likely to exist unless the data is shared on social media.
	Research notes	Same	Could be digital, stored in a cloud-based system
	Protocols	Same	Could be digital, stored in a cloud-based system
	Annual reports	Same	
	Department newsletters	Same	Could be shared on social media. A lot of data is likely to be shared on social media. This seems less likely to exist unless the data is shared on social media.
	Photographs and film	Same	

# PRELIMINARY FINDINGS

- Most of the functional analysis holds up
- The *Guide* predates “open science” (OSF, GitHub, etc.)
- “Science Twitter” and other social media dissemination is new
- DEIA not a focus for Haas et al.
- Scientific practices have become even more collaborative and distributed

# NEXT STEPS

- Complete gap analysis
- Determine connection between appraisal and access
- Consult with scientists to identify any gaps, any activities not represented
- Write article and submit to peer-reviewed journal (2023 target date)

# THANK YOU!

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