

Group 3 Notes

Moderator: Doug Jones

Scribe: Kit Lewers

Participants: Julie Allen, Ashley Dineen, Rebecca Johnson, Cody Thompson, Melissa Tulig, Allison Shultz, Arthur Porto, Austin Hendy

What additional Action Center Features, Goals or Services would you add to the list shown earlier?

Goals/Services Outlined:

Coordinating the Digital Extended Specimen Network

Creating a Comprehensive Collecting Plan

Preserving Orphaned Collections

Providing Support for Ethical and Legal Issues

Promoting Emerging Research Technologies

Offering Workforce Development & Training

Engaging with the Public and Expanding Stakeholders

Consider the perspectives of different stakeholders as well as the collections community.

- What kind of big services that were or were not talked about today could be provided?
- Julie Allen - Helping with backlogs
 - Good point by Rebecca and Doug: Is admitting to congress that we have orphaned data or massive backlogs?
- Mentioning the possible potential instead of the downsides may be the tact to take - Doug
 - Will Action Center
- Allison: Coordinating with all the other areas, blanket collections policy to get collections traded Colombia.
 - Like a registered collection that you would need a permit for -Melissa
 - A NEON model that potentially could facilitate building this
 - Liaison with federal and/or international permits – Allison
- Add legitimacy to other institutions by doing so you also ascribe to following a lot of policy, also gives entree into some of the cyber infrastructure. Helps to integrate, elevate, and stabilize

- Austin – The offering of training by the people who actually hand out the approval.
- Rebecca – Relevant to orphaned collections, the permitting is retrospective. A lot of administration to make them usable because we cannot take specimens if they are not legally collected. Potential waiver?
 - Fish and wildlife will sometimes do
 - Cody – not a one size fits all; having an agent that has contacts as a liaison
- Cody – Small regional collections should be integrated well and be given visibility
 - Doug – some of these are very important to things like tracing emerging pathogens
 - Andy – also helping them preserve the future
- Kit – Corporate partnerships
 - Austin – a large action center could be attractive to large partnerships to advocate for smaller institutions
- Ashley – How to talk to donors, grant writing, resources for what grants are out there
- Julia – Coordinate volunteer, postdoc, fellowship networks. Like a curator in residence similar to what NPS does.
- Cody – Effort to push on what scholarship activities of collections are and making sure funding institutions (NSF, NIH, etc) understand the importance
 - Doug – Similar to how librarians are tenure track at some universities
 - Kit – Involving deans and administrators
- Kit – Involve Human Computer Interaction
- Austin – A lot of what has been created already is not great, very little incentive or technological assistance to be correct
 - Ie: First georeferencing institutions are not great because they pre-date standards and models
 - See the action center find low hanging fruit across data
 - Fixing old data to make it more useful instead of plowing ahead
 - Being able to provide human feedback outside of just flagging, etc
- Rebecca – “We are 19th century organizations trying to come into the 21st century”
- Doug – Curator in residence similar thing in the Lepidoptera collection at UF
 - Austin – A tweak in the TCN model is instead of funding an institution, fund an individual?
- Rebecca – Collection Managers and Curators are very different, but equally important
 - How do we make our dirty laundry look like a great opportunity
- Cody – What is the plan with all this knowledge? A senator

- Doug – We need some kind of a presence in Washington
 - Cody – CTAF and DissCo

DAY 2

Deciding how we want to condense it; original list:

- Liaison for permits federally and internationally
- Registered collections
- Partner with institutions that give out permits (ie IRBs)
- Curators in residence program
 - Help with backlog
 - Tweaking TCN to go from funding institutions to funding individuals
- Bringing small regional institutions in the fold and giving more visibility to them
- Corporate partnerships
 - Also benefit small regional institutions
- Bringing in specialist from other fields (ie: HCI(Human Computer Interaction), Complex System and Organizational Studies Researchers)
- Fixing old data
- Add value for doing collections work and curation work (ie promotion, tenure)
- Biodiversity credits

New, condensed list:

- Biodiversity Credits Program
 - Corporate partnerships
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- Establish a National Collections Registry
 - Use case: databasing their collections
 - Provide software for databasing in small institutions
 - Plug and play to aggregators; two-way
 - Use new and existing infrastructure
 - Cyberinfrastructure
 - Digital Asset Management
 - Migrating Information
 - Registered/Accredited Collections Network
 - Liaison access
 - Small collections funded from central fund
 - Re: Biodiversity Credit

OTHER NOTES

- From a paleo perspective, looking at tipping points in the environment.
- Collecting extremely locally (especially areas like LA that are changing frequently)
- On the Engaging with the Public and Expanding Stakeholder
 - DNR

- JUSTIFICATION NOT A GOAL – ROI for biodiversity
 - Insurance, cost of pathogens, wildfires, bioeconomy, ecotourism, agricultural, collecting

Slideshow with additional notes

https://docs.google.com/presentation/d/1t94tI3cgObtnqDyFwNynlgQ4ieyIPvwkT3KsPUz_zlpo/edit?usp=sharing

SUCCESS STORIES

Orphan Collections

- Thematic Collections Network funding received and high-level scientific papers published based on aggregated comprehensive collection (including many orphaned collections) of SE Atlantic and Caribbean Mollusks at FLMNH (Saupe et al., 2014; Saupe et al., 2015; Strotz et al., 2018).
Saupe, E.E., Hendricks, J.R., Portell, R.W., Dowsett, H.J., Haywood, A., Hunter, S.J. and Lieberman, B.S., 2014. Macroevolutionary consequences of profound climate change on niche evolution in marine molluscs over the past three million years. Proceedings of the Royal Society B: Biological Sciences, 281(1795), p.20141995.
Saupe, E.E., Qiao, H., Hendricks, J.R., Portell, R.W., Hunter, S.J., Soberón, J. and Lieberman, B.S., 2015. Niche breadth and geographic range size as determinants of species survival on geological time scales. Global Ecology and Biogeography, 24(10), pp.1159-1169.
Strotz, L.C., Saupe, E.E., Kimmig, J. and Lieberman, B.S., 2018. Metabolic rates, climate and macroevolution: a case study using Neogene molluscs. Proceedings of the Royal Society B, 285(1885), p.20181292.
Vancouver

NOTES FROM KATHARINA DITTMAR TALK

Ecosystem and mental map to keep in mind while thinking about this

Mapping and weighting this out... Ask for recording of Katharina's talk

OPEN SCIENCE, Interdisciplinary Science, how can we coordinate this?

How can we make this about the needs of the people; a co-creation model of knowledge

Citizen scientists, public,

Fostering innovation technology and innovation ecosystems

Establishing translation pathways

Translating research results into action

Engage the nations diverse talents

Partnering between academia, nonprofits, industry, civil society, and communities of practice

A biological center as something that addresses that works outward facing from the collections community

Kit thoughts: organizations that use collections off the top of my head – NSF, DOI, NPS, DOD, CDC, DOJ, NSA, USAF, NOAA, USDA

Partnering with industry partners in homeowners and other insurance and pitch ourselves as a proactive measure to prevent these companies having to pay large settlements by finding ways to prevent and mitigate natural disasters...