Time EDT	Session Four 8:30 – 11:00 AM

8:30

Welcome
Global Collaboration for Improved Biodiversity Data
Joe Miller
Global Biodiversity Information Facility (GBIF)

Oral Presentations
Topic: Natural History Collections in Grand Challenges

8:50

The grandest of challenges – why we need digitization, machine learning, and artificial intelligence in a time of global change
Rebecca Johnson
National Museum of Natural History, Smithsonian Institution

9:10

Connecting Natural History Collections and Genomics to Meet Grand Challenges
Pam Soltis
iDigBio
Florida Museum of Natural History, University of Florida

9:20

How can archive collections support pandemic preparedness?
Yvonne Linton
Walter Reed Biosystematics
National Museum of Natural History, Smithsonian Institution

9:30

Developments in valuing digital collections data
Helen Hardy
The Natural History Museum, London

9:40 | ***Session Q&A***

9:50

Virtual NMNH Tour: Digitization and Replication of Cultural Objects
Eric Hollinger, Vince Rossi

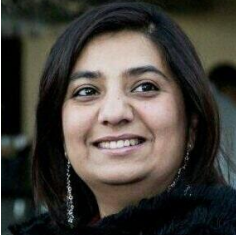|		
10:10		*Extended Digital Specimens on the Internet* **Alex Hardisty** School of Computer Science and Informatics Cardiff University, United Kingdom
10:20		*Bird's Eye View of the Past 10 years of Collections Digitization in the U.S.* **Barbara Thiers** New York Botanical Garden
10:30		*speciesLink's data cleaning strategies* **Dora Ann Lange Canhos** CRIA - Centro de Referência em Informação Ambiental, Brazil
10:40		***Session Q&A***

Time EDT	Session Five 1:00 – 3:30
	Oral Presentations **Topic: What's Next**

1:00		*The African Coordinating Mechanism for Biodiversity Information Management: Strengthening Science, Technology, and Innovation in Africa* **Fatima Parker-Allie** South African National Biodiversity Institute
1:20		*Experiments with knowledge: Equality and access as drivers for collection development* **Johannes Vogel** Museum für Naturkunde, Germany
1:30		*New Drivers for Digitization at NMNH.* **Carol Butler** Collections National Museum of Natural History, Smithsonian Institution

1:40		*Bee management: Establishment of the first reference collection of West African bees* **Drissa Coulibaly** University Peleforo Gon Coulibaly of Korhogo

1:50	***Session Q&A***

2:00		***Virtual NMNH Tour: Entomology*** Floyd Shockley, Torsten Dikow

2:20		*Paleo, μCT, Deep Learning pipelines and research applications* **Stewart Edie** Department of Paleobiology National Museum of Natural History, Smithsonian Institution

2:30		*Automated use of digitized specimens in plant science* **Pierre Bonnet** CIRAD, France

2:40		*Biological collections as research and development infrastructure* **Scott Miller** Smithsonian Institution

2:50		*Hopping from NEON specimens and samples into a web of linked data* **Paula Mabee** National Ecological Observatory Network (NEON)

3:00		*The community has spoken. How now, can we translate words into action?* **Reed Beaman** National Science Foundation

3:10	*Session Q&A*

Time EDT	**Session Six** **6:00 - 8:00 PM**

Panelist Discussion
Topic: Looking to the Future of Digitization

Conference Wrap-up