Leveraging Digitization Practices across Multiple Domains
6-9 October 2014

iDigBio and the Cheadle Center for Biodiversity & Ecological Restoration (CCBER) at the University of California, Santa Barbara are pleased to offer Leveraging Digitization Practices across Multiple Domains, a natural history collections digitization workshop targeted to collections managers, directors, curators, and other collections professionals.

Day 1: 6 October 2014

Time	Activity	Responsible
	Transportation leaves Harbor View for Santa Barbara Museum of Natural History	
5:30-7:00 p.m.	**Reception** **Santa Barbara Museum of Natural History** **(Shuttle departs HarborView at 5 p.m.)**	Jennifer Thorsch Gil Nelson Dr. Henry Chaney, Director of Collections and Research (SBMNH)

Day 2: 7 October 2014

Time	Activity	Responsible
7:30 a.m.	**Transportation departs Harbor View for Loma Pelona**	Laurie Hannah
	Getting started	

8:00-8:30 a.m.	**Breakfast**	
8:30-8:40 a.m.	**Welcome**	Jennifer Thorsch University of California Santa Barbara
8:40-8:50 a.m.	**Logistics** **Introduction to iDigBio**	Gil Nelson Florida State University iDigBio
8:50-9:05 a.m.	**Expanding NIBA: New research coordination network in support of digitization**	Rob Gropp American Institute of Biological Sciences
9:05-9:20 a.m.	**Digitization task clusters and workflows**	Gil Nelson
9:20-9:40 a.m.	**Digitization policies, practices, innovations, and discoveries**	Steve Dilliplane Academy of Natural Sciences of Drexel University
	Challenges to Digitization	
9:40-9:55 a.m.	**Challenges for small town, rural natural history collections**	Mary Beth Prondzinski Fairbanks Museum & Planetarium
9:55-10:10 a.m.	**Challenges in database selection and design**	Laura Brenskelle University of Texas, Austin
10:10-10:25 a.m.	**Challenges to digitization**	Margaret Landis Sam Noble Museum, University of Oklahoma

Time	Session	Presenter
10:25-10:45 a.m.	**Coffee break**	
10:45-11:15 a.m.	**Panel** **Questions and discussion** **Challenges to Digitization**	
	Pre-digitization curation and preparation	
11:15-11:35 a.m.	**Getting a collection ready for digitization**	Dawn Roberts Chicago Academy of Science, Peggy Notebaert Nature Museum
11:35-11:55 p.m.	**Getting an insect collection ready for digitization at the Illinois Natural History Survey's InvertNet project**	Dmitry Dmitriev Illinois Natural History Survey
11:55-12:15 p.m.	**Pre-digitization curation for wet collections**	Dean Pentcheff Natural History Museum of LA County
12:15-1:15 p.m.	**Lunch**	
1:15-1:35 p.m.	**Using the crowd to augment data entry: BioSpecs, public participation, and citizen science**	Libby Ellwood iDigBio Florida State University iDigBio
1:35-1:55 p.m.	**Citizen science programs**	Erica Clites University of California Museum of Paleontology
	Field trips	

1:55-5:00 p.m.	**The Cheadle Center for Biodiversity and Ecological Restoration (CCBER)**	Laurie Hannah Mireia Beas-Moix UCSB/CCBER
1:55-5:30 p.m.	**The Santa Barbara Museum of Natural History (SBMNH)**	Paul Valentich-Scott, Krista Fahy
1:55-5:30 p.m.	**The Western Foundation of Vertebrate Zoology (WFVZ)**	Linnea Hall

Day 3: 8 October 2014

Time	Activity	Responsible
7:30 a.m.	**Transportation departs Harbor View for Loma Pelona**	Laurie Hannah
8:00-8.30 a.m.	**Breakfast**	
	Imaging and Image Processing Specifications and Workflows	
8:30-8:50 a.m.	**Imaging Standards and Workflows for Dried Insect Collections**	Jennifer Thomas Biodiversity Institute, University of Kansas
8:50-9:10 a.m.	**Imaging station set-up and configuration**	Roger Burkhalter Sam Noble Museum, University of Oklahoma
9:10-9:30 a.m.	**Selecting a camera and imaging station**	Joanna McCaffrey iDigBio

	Imaging and Image Processing Specifications and Workflows – Case studies	
9:30-9:45 a.m.	**Imaging workflows, equipment configuration, and challenges for 3-D objects in drawers and trays**	Paul Mayer, The Field Museum
9:45-10:00 a.m.	**Imaging herbarium specimens**	Janet Bala Idaho Museum of Natural History, Idaho State University
10:00-10:15 a.m.	**Coffee Break**	
10:15-10:30 a.m.	**Imaging 3D objects (birds, mammals, butterflies) with stacking for deep focus**	Gil Nelson Florida State University, iDigBio
10:30-10:45 p.m.	**Imaging challenges for 3D objects in trays and drawers**	Ron Eng Burke Museum of Natural History and Culture
10:45-11:30 a.m.	**Imaging Q&A Discussion**	
	Acquiring, managing, using, and publishing data	
11:30-11:45 a.m.	**Standards for biodiversity data**	Greg Riccardi iDigBio PI Florida State University
11:45-12:00 p.m.	**Data standards: what we can learn from the information and library sciences**	Larry Schmidt University of Wyoming

12:00-1:00 p.m.	**Lunch**	
1:00-1:15 p.m.	**Using digitized data in scientific research**	Pam Soltis iDigBio PI University of Florida
1:15-1:30 p.m.	**Moving data to iDigBio and other aggregators**	Joanna McCaffrey
1:30-1:45 p.m.	**Applying data standards to multiple domains**	Steve Dilliplane
1:45-2:00 p.m.	**Database schemas for natural history collections**	Laura Brenskelle University of Texas
2:00-2:15 p.m.	**Databasing workflows for 3D objects in trays and drawers, fluid-preserved invertebrates, and microscopic slides**	Paul Valentich-Scott Krista Fahy Santa Barbara Museum of Natural History
2:15-2:30 p.m.	**Digitizing Practices for Invertebrate Collections … and Leveraging Beyond**	Dan Young University of Wisconsin
2:30-2:45 p.m.	**Specify as a database management tool**	Roger Burkhalter
2:45-3:00 p.m.	**Coffee break**	
3:00-3:15 p.m.	**Databasing workflows for paleontology**	Erica Clites University of California Museum of Paleontology
3:15-3:30 p.m.	**Databasing workflows at the University of Wisconsin herbarium**	Mark Wetter
3:30-4:00 p.m.	**Data Q&A Discussion**	Gil Nelson

| 4:00-5:00 p.m. | **Breakouts.**
 Wrap up. | Gil Nelson |