



Small Herbarium Digitization Workshop
Botany 2014
31 July 2014
Boise, Idaho

Time	Topic	Presenter
7:00-8:00 a.m.	Breakfast	
8:00-8:05 a.m.	Welcome and Logistics	Gil Nelson, Florida State University/iDigBio
8:05-8:15 a.m.	Intro to iDigBio	Pam Soltis, University of Florida, iDigBio
8:15-8:30 a.m.	Introduction to SCNet and NANSH	Anna Monfils, Central Michigan University
8:30-8:45 a.m.	Documenting the importance of small herbaria	Travis Marsico, Arkansas State University
8:45-9:00 a.m.	The importance of and challenges to getting started	Ashley Morris, Middle Tennessee State University Emily Gillespie, Marshall University
9:00-9:15 a.m.	Steps for getting started with a digitization program Include document itemizing the steps	Kari Harris, Arkansas State University
9:15-9:30 a.m.	Digitized data and research: molecular, morphological, and vouchered	Pam Soltis

9:30-10:00 a.m.	Citizen science, crowd sourcing, public participation, and BioSpex	Libby Ellwood, Florida State University/iDigBio
10:00-10:15 a.m.	Coffee Break	
10:15-10:45 a.m.	Digitization workflows for small herbaria	Gil Nelson
10:45-11:00 a.m.	Understanding data: <ul style="list-style-type: none"> ● What to collect ● Data management ● Data standards ● Data quality ● Data publishing ● NANSH (Symbiota) 	Ed Gilbert, Arizona State University/Symbiota
11:00-11:15 a.m.	Data management tools and database options	Ed Gilbert
11:15-11:30 a.m.	Discussion Q&A	
11:30-12:00 p.m.	Specimen imaging <ul style="list-style-type: none"> ● barcodes ● equipment ● file types ● imaging standards 	Kim Watson, New York Botanical Garden
12:00-1:00 p.m.	Lunch	
1:00-1:15	Uploading specimen records and images to NANSH. Linking images to specimen records.	Ed Gilbert
1:15-1:30 p.m.	Field Research Perspective: <ul style="list-style-type: none"> ● personal specimen management ● printing labels ● submitting specimens and data to herbaria 	Ed Gilbert

1:30-2:00 p.m.	Discussion, Q&A, pre-workshop homework	
2:00-2:15 p.m.	Break	
2:15-4:45 p.m.	<p>Personalized breakout sessions. Participants will have the opportunity circulate among several in-room breakout stations to discuss and get personal questions answered. Stations will include:</p> <ul style="list-style-type: none"> ● strategies for getting started and ● convincing your administration of the value of digitization ● incorporating students into digitization ● uploading data to and managing a collection within Symbiota, to include getting your data to iDigBio and other data aggregators ● utilizing digitized data in research and linking genomic resources to specimen vouchers ● imaging station components and digital cameras 	<p>Kari Harris, Travis Marsico Ashley Morris, Emily Gillespie</p> <p>Anna Monfils, Erica Krimmel</p> <p>Ed Gilbert</p> <p>Pam Soltis</p> <p>Kim Watson</p>

	<ul style="list-style-type: none">• using GeoLocate for georeferencing herbarium specimens• Tools for crowd sourcing and public participation	<p>Gil Nelson</p> <p>Libby Ellwood</p>
4:45-5:00 p.m.	Group discussion, Final Q&A, workshop wrap-up	Gil Nelson