





Digitisation of Biological Collections A Global Focus

Monday 13 April 2015

Waterhouse Lecture Theatre CSIRO Black Mountain Laboratories Clunies Ross Street, Canberra, Australia

8:30-9:00	Coffee and Welcome
Session 1:	Introductions - Global Institutions Digitisation program and future
	Moderator: TBA
9:00-9:10	Opening and introductions : John La Salle
9:10-9:30	iDigBio : Larry Page
9:30-9:50	Chinese Field Museum : Keping Ma
9:50-10:10	The Smithsonian Institution: Paul Kimberly
10:10-10:30	The Natural History Museum: Vince Smith
10:30-11:00	Morning Tea
Session 1:	Continued
11:00	CSIRO National Research Collections Australia: Andrew Young
11:20	Atlas of Living Australia: John La Salle
Session 2:	Pathways to Collaboration group discussion
	Moderators: Larry Page & John La Salle
11:40-12:30	How can we learn from international digitsation efforts for potential collaborations and
	sharing?
	Discussion will examine how ALA and iDigBio capabilities might collaborate more closely
	in the future to deliver integrated data and services that are needed by stakeholder
	communities and other international groups involved in large scale digitisation projects -
	China, Smithsonian, BNHM, Naturalis and CSIRO's NRCA
12:30-13:15	Lunch
13:15-14:00	Tour of Australian National Insect Collection (ANIC) with David Yeates
Session 2:	Continued
14:00-15:30	Discussion to consider
	 Capability we should be accessing via collaboration rather than building
	ourselves separately?
	 What are the key future priorities
	What ideas to work on in the future.
	Does a need and an opportunity exists to further conceptualise and develop
	international together, to frame components that will fully support the broad definition
	of biodiversity research that coordinates and integrates with existing infrastructure,
	including tools developed by individuals?
15:30-16:00	Afternoon Tea
16:00-16:45	Tour of Australian National Herbarium (ANH) with Andrew Young
16:45	Return to Lecture Theatre for wrap-up and closing.
17:00	Close







Digitisation of Biological Collections

Showcase Day Program

Tuesday 14 April 2015

Waterhouse Lecture Theatre

CSIRO Black Mountain Laboratories

Clunies Ross Street, Canberra, Australia

8:30-9:00	Coffee and Welcome
Session 1:	Global Digitisation
	Moderator: John La Salle
9:00-9:15	Opening speaker and remarks – Malcolm Thompson
9:15-9:30	Larry Page : Overview of iDigBio, its genesis, development, funding and future
9:30-9:45	Keping Ma: Chinese Field Museum
9:45-10:00	Vince Smith: NHM Digital Collections Programme and the NHM Data Portal
10:00-10:15	Paul Kimberly: Smithsonian Institution Natural History Museum (Rapid Capture Approach)
10:15-10:30	Andrew Young: CSIRO National Research Collections Australia: Digitisation Strategy & future
	direction
10:30-10:45	John La Salle: Atlas of Living Australia
10:45-11:15	Morning Tea
Session 1:	Global Digitisation continued
	Moderator: Larry Page
11:15-11:30	Pam Soltis: Role in advancing scientific research with digitized data
11:30-11:45	Greg Riccardi: iDigBio's role in facilitating and enabling digitization
11:45-12:00	Jose Fortes: Cyberinfrastructure, portal and data
12:00-12:15	David Jennings: Digitization project management
12:15-12:30	Austin Mast: Public participation and citizen science management
12:30-12:45	Gil Nelson: Community building, digitization workflow development, training and product
	workshops
12:45-13:00	Bruce MadFadden: iDigBio - Education and outreach
13:00-13:45	Lunch
Session 3:	Australian Digitisation Initiatives
	Moderator: Paul Kimberly
13:45-14:00	Rebecca Pirzl: Building an E-Flora
14:00-14:15	Paul Flemons: Engaging communities with DigiVol
14:15-14:30	Daniel Gledhill: X-ray images of fishes
14:30-14:45	Alexis Tindall: Community coordination for Australian herbaria
14:45-15:00	Alison Vaughan: Community coordination for the Australian zoological collections
15:00-15:15	Nicole Fisher: International Drawer Digitisation Initiatives and Future
15:15-15:45	Afternoon Tea
Session 4:	Moving Digitisation Forward
	Moderator: John La Salle
15:45-16:00	Simon Checksfield : A combined information management system for the National Biological
	Collections
16:00-16:15	Andreas Zwick : Collection genomics
16:15-16:30	BPA: Genomics Data / platforms for digitising collections
16:30-16:45	Graham Galloway (Andrew Janke) : National Imaging Facility supporting specimen imaging
16:45-17:00	Changming Sun : Feature extraction from imaging libraries
17:00-17:15	Stuart Anderson and Matt Adcock : Extracting information from 3D images
17:15-17:30	CLOSING COMMENTS and DISCUSSION
17:30	Close







Digitisation of Biological Collections Round Table Discussions Day 1

Wednesday 15 April 2015

Waterhouse Lecture Theatre CSIRO Black Mountain Laboratories Clunies Ross Street, Canberra, Australia

Sessions aimed at initiating conversations to facilitate represented digitisation projects world-wide in finding effective cooperative and collaborative strategies benefiting all parties going forward. Please come with ideas and methods ready for involvement.

8:30-9:00	Coffee and Welcome
Session 1:	Global Collections: Advancing Scientific Research
	Moderators: Pam Soltis, Keping Ma & John La Salle
9:00-9:10	Pam Soltis – Introductory presentation
9:10-10:30	Round Table Discussion :
	Digitising collections is not enough, you must make it known and available for
	searching and use. The potential now exists to capitalise on this global massive
	investment in biodiversity so as to enable new science.
	Bioinformatics/Digitisation is being perceived as a replacement for, rather than an aid
	to, systematic expertise, where collection curation has been disconnected from
	researchers.
	This topic envisages support of an international coordinating effort for collection
	digitisation research that would see to digitise collections for global impact across
	multiple institutions to address specific research questions. Integrating the process or
	products of digitisation into research needs to be capable of dealing with project /s that
	are focused on 1) collection of the data, and 2) research use of this data
10:30-11:00	Morning Tea
Session 1:	Global Collections: Advancing Scientific Research - continued
continued	Moderators: Pam Soltis, Keping Ma & John La Salle
11:00-11:10	Keping Ma - Advancing Digitised Data for Scientific Research in China
11:10-12:30	Round Table Discussion – continued
12:30-13:30	Lunch
Session 2:	Cyberinfrastructure
	Moderators: Jose Fortes, Greg Riccardi & Peter Doherty
13:30-13:40	Jose Fortes – Introductory presentation
13:40-15:00	Round Table Discussion :
	Significant cyberinfrastructure development has already seen advancement in the
	mobilization of biological collections data, and further positioning to be transformed by
	investment and collaborative efforts of organisation at international level. The
	mobilization and engagement of the ecological and evolutionary data associated with
	specimen collections is a grand challenge for the 21st Century with the development of
	cyberinfrastructure to promote efficient and standardised capture and mobilisation.
15:00-15:30	Afternoon Tea
Session 3:	Workflow – the heart of successful digitization programs
	Moderators: Gil Nelson and Vince Smith
15:30-15:40	Gil Nelson – Introductory presentation
15:40-17:00	Round Table Discussion :
	One of the most significant challenges facing the digitisation effort of biological
	collections is the design and implementation of complex workflows, which can vary







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17:00	Close
	Efficient and effective workflows are at the heart of any successful biological collections digitisation. Through unified efforts we envisage involving the creation of a publicly available, sustainable and comprehensive national and international collections information resource of digitisation workflows and protocols.
	of the repository and encourage those in the community to both discuss the workflows, and to contribute to this resource by adding new workflows and updating existing workflows.
	from as many collection types and institutions as possible. Here we offer the beginnings
	available to the larger collections community. iDigBio, is establishing an online repository for sharing existing customized workflows
	and collections level, but few of these workflows have been documented or made
	Much work has been done with developing workflows and protocols at the museum
	significantly across different taxonomic types and sizes of collections and which need to adapt to collection management logistics unique to each institution.







Digitisation of Biological Collections

Round Table Discussions Day 2

Thursday 16 April 2015

Waterhouse Lecture Theatre CSIRO Black Mountain Laboratories Clunies Ross Street, Canberra, Australia

Sessions aimed at initiating conversations to facilitate represented digitisation projects world-wide in finding effective cooperative and collaborative strategies benefiting all parties going forward. Please come with ideas and methods ready for involvement.

8:30-9:00	Coffee and Welcome
Session 4:	WeDigBio—Worldwide Engagement for Digitizing Biocollections
	Moderators: Austin Mast, Paul Flemons, Paul Kimberly
9:00-9:10	Paul Kimberly, Paul Flemons, Austin Mast—Introduction to WeDigBio, an Example of
	International Collaboration
9:10-10:30	Round Table Discussion :
	Online transcription centres, such as Notes from Nature, DigiVol, the Smithsonian
	Institution's Transcription Center and Les Herbonautes, provide a means by which the
	public can contribute to digitisation of biocollections in ways and at scales that were
	previously not possible. WeDigBio, an event of global mass digitisation planned for
	October 2015 and annually thereafter, will capitalize on these developments by
	providing a media campaign, cyberinfrastructure, and other support for the
	transcription centres and the biocollections using them. The event is planned to engage
	both widely distributed public participants and participants in transcription events held
	onsite at biocollections. The latter can be used to strengthen local community support
	for biocollections and biodiversity research (e.g., as a launch for crowdfunding
	campaigns) and build sustainability.
10:30-11:00	Morning Tea
Session 5:	Education and Outreach
	Moderators: Bruce MacFadden and Taryn Johnson
11:00-11:45	Round Table Discussion :
	Data uses beyond research, focusing on education, conservation, public engagement,
Coorier C.	constituency building, etc Bruce expand text?
Session 6:	Project Management Mederatory David Johnings
11:00-11:45	Moderator: David Jennings Round Table Discussion :
11:00-11:45	
	Effective project management requires a balance of technical skills with people skills. Technical skills include areas such as planning, estimating, measuring, and
	controlling. In contrast, people skills include areas such as leading, enabling, motivating,
	and communicating. Successful project managers are flexible in applying their
	knowledge and skills from both areas in the correct combination keep projects moving
	forward. This session will discuss aspects of project management in relation to
	strategies, tactics, and workflows for adapting to situations and driving things forward.
	We invite discussion of lessons learned, what works, and what doesn't work based on
	your experience and then brainstorm new approaches.
12:30-13:30	Lunch
Session 7:	Moving Forward – Group Discussion
	Moderators: Larry Page, John La Salle, Andrew Young
13:30-15:00	Round Table Discussion :
	Capture ideas for projects and collaboration for the next 2 years.







15:00-15:30	Afternoon Tea
Session 7:	Expected Outcomes / Future Directions
	Moderators: Larry Page, John La Salle, Andrew Young
15:30-16:30	Round Table Discussion :
	Finalising ideas from previous discussion
16:30-17:00	Closing comments from Larry Page, John La Salle, Andrew Young
17:00	Close







Jointly sponsored by CSIRO National Research Collections Australia, iDigBio and the Atlas of Living Australia Digitisation of Biological Collections

Field Trip

Friday 17 April 2015

Pick up from University House

9:00-17:00	
9:00	Pick up from University House
9:15-10:00	Tour of Australian National Wildlife Collection (ANWC) with Leo Joseph
10:00-15:00	Visit to Tidbinbilla Nature Reserve – including Aussie barbie in the bush
15:00-16:00	Tour of Canberra Deep Space Communication Complex (near Tidbinbilla)
16:00	Return to Canberra