

Saturday, June 17th

Time	Event
6:00 PM – 8:00 PM	Registration Desk Open

Sunday, June 18th

Time	Event	Location
7:00 AM – 6:00 PM	Registration Desk Open	
8:00 AM – 1:00 PM	Workshops:	
	Natural History Collections Club Network: Strategies for Building Undergraduate Interest and Participation in Natural History Collections	Hopscotch
	TDWG Working Session (Part 1)	Duck Duck Goose
	Natural History Biodiversity Informatics 101 (Part 1)	Red Rover
9:30 AM – 10:00 AM	Coffee Break	Marco Polo
NOON – 1:00 PM	Lunch	Marco Polo
NOON – 6:00 PM	Speaker Ready Room Open	
NOON – 5:00 PM	Workshops:	
	Standards and Best Practices for Fluid Preservation	Hopscotch
	TDWG Working Session (Part 2)	Duck Duck Goose
	Natural History Biodiversity Informatics 101 (Part 2)	Red Rover
3:00 PM – 3:30 PM	Coffee Break	Marco Polo

Monday, June 19th

Time	Event	Location
7:00 AM – 6:00 PM	Registration Desk Open	
8:00 AM – 1:00 PM	Workshops:	
	Getting It Paid For: Best Practices in Preparing Successful IMLS Grant Applications	Hopscotch
	Directors' Summit On Digital Data (Part 1)	Duck Duck Goose
	ARE YOU READY? Scenario Planning and Collaboration to Improve Disaster Preparedness (Part 1)	Red Rover
	Care of Historic Mammalian Taxidermy (Part 1)	DMNS Avenir Collections Center
	A Dentist's Nightmare: Volunteering for Cavities	DMNS Avenir Collections Center
	Legal Aspects of Shipping Preserved Animals and Tissues (Part 1)	DMNS Avenir Collections Center
	9:30 AM – 10:00 AM	Coffee Break
NOON – 1:00 PM	Lunch	Marco Polo
NOON – 6:00 PM	Speaker Ready Room Open	
NOON – 5:00 PM	Workshops:	
	Writing for Successful Journal Publication to Promote Effective Change in Natural History Collections	Hopscotch
	Directors' Summit On Digital Data (Part 2)	Duck Duck Goose
	ARE YOU READY? Scenario Planning and Collaboration to Improve Disaster Preparedness (Part 2)	Red Rover
	Care of Historic Mammalian Taxidermy (Part 2)	DMNS Avenir Collections Center
	Legal Aspects of Shipping Preserved Animals and Tissues (Part 2)	DMNS Avenir Collections Center
3:00 PM – 3:30 PM	Coffee Break	Marco Polo

Tuesday, June 20th

Time	Event	Location
7:30 AM – 8:00 PM	Registration Desk Open	
9:00 AM – 10:30 AM	Opening Welcome & Plenary Session: <ul style="list-style-type: none"> • Introductory Remarks: Kelly Tomajko, Local Organizing Committee Chair • Welcome: George Sparks, President & CEO, Denver Museum of Nature & Science • Welcome: Jennifer Ramp Neale, Director of Research & Conservation, Denver Botanic Gardens • Remarks: Linda Ford, President, SPNHC • Remarks: Austin Mast, President, Society of Herbarium Curators • Remarks: Eric Dorfman, President, ICOM-NATHIST 	Four Square
10:30 AM – 11:00 AM	Coffee Break	Marco Polo
11:00 AM – NOON	Opening Welcome & Plenary Session (cont'd): <ul style="list-style-type: none"> • Remarks: Emily Graslie, Chief Curiosity Correspondent, The Field Museum • Keynote: Kirk Johnson, Sant Director, Smithsonian National Museum of Natural History 	Four Square
NOON – 1:30 PM	Lunch (on your own)	
NOON – 6:00 PM	Speaker Ready Room Open	
1:30 PM – 5:00 PM	Sponsoring Partner Set-Up	Marco Polo
1:30 PM – 2:30 PM	Committee Meetings:	
	Legislation & Regulations	Hopscotch
	Long Range Planning	Duck Duck Goose
	Membership	Red Rover
2:30 PM – 3:30 PM	Committee Meetings:	
	Conservation	Hopscotch
	Professional Development	Duck Duck Goose
	Best Practices	Red Rover
3:30 PM – 4:30 PM	Committee Meetings:	
	Conference	Hopscotch
	Web	Duck Duck Goose
	Emerging Professionals	Red Rover
4:30 PM – 5:30 PM	Committee Meetings:	
	Publications	Hopscotch
	International Relations	Duck Duck Goose
	U.S. Federal Collections	Red Rover
6:00 PM – 8:00 PM	Ice Breaker Reception	Four Square

Wednesday, June 21st

Time	Event	Location
6:30 AM – 6:00 PM	Registration Desk Open	
7:00 AM – 8:00 AM	Poster Set-Up – Group 1	Four Square Foyer
9:00 AM – 5:00 PM	Sponsoring Partner Tradeshow	Marco Polo

8:00 AM - NOON		MORNING TECHNICAL SESSIONS			
ROOM	Four Square	Hopscotch	Duck Duck Goose	Red Rover	
THEME	Advances in Digitization Worldwide: an iDigBio Symposium	Disaster Preparedness	Public Access to Collections	New Solutions Collections Management	
8:00 AM	Jennifer Ackerfield - Herbarium Link - a novel system for the digitization workflow of herbarium specimens	Peter Giere - Disaster Preparedness in Museums – risks and incidences in natural history collections and beyond. An introduction.	Stephanie Tessier - Collections for the future: Specimens and data going fully digital	Suzanne Ryder - The next generation in collections assessment.	
8:20 AM	Sarah Phillips - Everyday Operational Issues Associated with Managing the Digital Collections of one of the Largest Herbaria in the World	Clare Valentine - How to write a Disaster Plan! Business Continuity and Collections Salvage in a European perspective	Bernhard Zipfel - Homo naledi, a new human relative - recovery, curation, and dissemination	Terry Childs - Survey Is In! Design, Results & Next Steps for DOI Collections	
8:40 AM	Michael Denslow - Interoperability between GEOlocate and Symbiota software; Collaborative georeferencing within a large scale digitization project.	Julie A. Page - To Protect and Preserve: U.S. Collaborative Efforts to Build and Sustain Cultural Heritage Emergency Network	Sali Underwood - Nevada's Neglected Lepidoptera Herbarium	Carrie Eaton - Federal collections stewardship at a university museum: Developing department-wide policies for the care and management of research specimens from public lands	
9:00 AM	Saskia Jancke - Wiki-handbook of best practices and standards for 3D imaging of natural history specimens	Anja Friederichs - Emergency preparedness at the Museum für Naturkunde, Berlin: the end of a long and winding road – a case study	Emily Smith - Keeping "History" in "Natural History": Scientific specimens as artifacts of cultural heritage	Christina Fidler - Preserving and promoting access to field notes in natural history collections	
9:20 AM	Jonathan Blundell - Automating 3D collection capture: Developing systems for 3D digitization at scale	Robert Morris - Planning for the Shaky Isles; Disaster preparedness at the Otago Museum	Rachel Poutasse - The Marcus E. Jones Project: an innovative approach to public engagement with herbaria and archives	Matthew Pace - Adapting to APG IV: Curating the second largest herbarium in the world	
9:40 AM – 10:00 AM	Coffee Break – Marco Polo				
10:00 AM	Christina Lutz - Novel Use of Insect in Digitization of Paleontology Collections	Colleen Carter - Quick Disaster Response: DMNS Adds a Tool	Treloar Bower - Beyond Access	Julianne Snider - Working toward best practices of collection stewardship to ensure the sustainability of a university collection	

ROOM	Four Square	Hopscotch	Duck Duck Goose	Red Rover
THEME	Advances in Digitization Worldwide: an iDigBio Symposium	Disaster Preparedness	Public Access to Collections	New Solutions Collections Management
10:20 AM	Marc Pignal - e-ReColnat: a multiparty approach	Leslie Schuhmann - Earthquake Response and Repair Project at the Smithsonian Institution's Museum Support Center (MSC)	Rich Busch - the Reality of Virtual Reality	Russell D. "Tim" White - The Present is the Key to the Past: The Evolution of Best Practices at the Yale Peabody Museum of Natural History
10:40 AM	Jennifer Laherty - Responding to the Invisible Infrastructure: Research Libraries as Preservation Partners in the Curation of Physical Specimen Biocollections Data	William Moser - Fungal Growth Associated with Ethanol Based Collection Storage Facilities	Greg Lovell - Let Them See the Stuff	Gregory Watkins-Colwell - Bones, Boxes and Barcodes: the recuration of herpetology and ichthyology skeletal specimens at Yale Peabody Museum of Natural History.....so far
11:00 AM	Paul J. Morris - Developing Standards for Data Quality Tests and Assertions using a Fitness for Use Framework	Rebecca Kaczowski - The Value of PRICE: Preparedness and Response in Collections Emergencies at the Smithsonian	Colleen Carter - Girls & Science	Shusheng Hu - George Wieland and the cycadeoid collection at the Yale Peabody Museum
	Innovative Uses of Collections Data: an iDigBio Symposium			
11:20 AM	Kathryn Estes-Smargiassi - Innovative Inventory: Shedding light on dark data and creating new collection tools	Jen Tobias - Friends in Need: A Practical Guide to Getting Help from Neighbors When Disaster Strikes	Liz Davis - Access Granted: Sharing your unique collections with an audience	Nicole Tarnowsky - What Once was Lost Can Now be Found in the Cloud (Part 1 of 2) - Handling Unidentified Legacy Herbarium Collections at the New York Botanical Garden.
11:40 AM	Gary Motz - Starting from Scratch: Digitization of an Entire Collection Ecosystem	Anthony Akpan - The impact of ICTs-based communication modes on citizen participation in flood risk management: A case study of Delfland (The Netherlands)	Jodi Schoemer - Using Audience Input to Determine Traveling Exhibition Enhancements	Charles Zimmerman - What Once was Lost Can Now be Found in the Cloud (Part 2 of 2) - New Protocols for Exchange of Herbarium Specimens and Data in the Digital Age

Time	Event	Location
NOON – 1:30 PM	Lunch	Marco Polo
NOON – 1:30 PM	Emerging Professionals Luncheon	Four Square
NOON – 6:00 PM	Speaker Ready Room Open	

1:30 PM – 3:50 PM AFTERNOON TECHNICAL SESSIONS				
ROOM	Four Square	Hopscotch	Duck Duck Goose	Red Rover
THEME	Innovative Uses of Collections Data: an iDigBio Symposium	Impacts of Changing Regulations	Public Access to Collections	New Solutions Collections Management
1:30 PM	J Ryan Allen - Analyzing the University of Colorado Herbarium (COLO) digital collection.	Breda Zimkus - The ABCs of ABS: the Nagoya Protocol on Access and Benefit-Sharing and its relevance to natural history collections in the U.S.	Michael Denslow - The Notes From Nature project: Evolutions and revolutions in enhancing engagement with data providers and citizen scientists	Paul Mayer - Planning for and Justifying a Large Fossil Donation
1:50 PM	Ann Molineux - A digitized collection: where next?	Lynda Knowles - Legal and Regulatory update on the Convention on Biological Diversity and the Nagoya Protocol	Kari M. Harris - Strategies to Engage High School Students in Natural History Collections	Christina Piotrowski - I'll take 40 barrels of invertebrates to go please: a case study for large wet collection transfers
2:10 PM	Stephanie Leon - From the scrub to the web: Digitizing the collection at the Archbold Biological Station	Dirk Neumann - Access and Benefit Sharing – chances and challenges for biodiversity research, collections and collection management under the Nagoya Protocol.	Elizabeth Ellwood - Worldwide Engagement for Digitizing Biocollections (WeDigBio)—The Biocollections Community's Citizen Science Space on the Calendar	Mare Nazaire - Engaging Our Future to Preserve Our Past: Curation and Preservation of Historically Significant Collections Through Student Participation at the Rancho Santa Ana Botanic Garden Herbarium
2:30 PM	Sylvia Orli - Deep Learning with Botanical Specimen Images	Matthew Brown - The Paleontology Resources Preservation Act and You	Gabriela Hogue - Measuring the success and impact of crowdsourced transcription using CitSciScribe	Jill Azzolini - From backlogged beasts to botanical beauties: striving towards maximum efficiency in processing collections
2:50 PM – 3:10 PM	Coffee Break – Marco Polo			
3:10 PM	Randy Singer - Fantastic Fishes and Where to Find Them: A Dynamic Inventory of United States Fish Collections	Pamela Horsley - The Role of the Registrar - a new position for the University of Michigan Museum of Zoology and Herbarium	Noelia Aponte-Silva - Extending the Capacity of Collections Staff: Best Practices in Volunteer Recruitment, Screening, and Placement	Jessica Cundiff - Fossils on the Move: Managing the Paleontology Collection Moves that the Museum of Comparative Zoology, Harvard University
3:30 PM	Shelley James - Georeferencing for Research Use (GRU): innovative geospatial training using natural history collections		Shana Hawrylchak - Increasing Capacity: A Fresh Look at Effectively Managing Collections Volunteers and Interns	Rebecca Newberry - How to move a Triceratops

Time	Event	Location
3:50 PM – 5:00 PM	Poster Session – Group 1	Four Square Foyer
5:00 PM– 5:30 PM	Poster Take-Down – Group 1	Four Square Foyer
5:00 PM – 7:30 PM	Sponsoring Partners Reception	Marco Polo
6:00 PM – 8:00 PM	SPNHC Council Meeting	Hopscotch

Thursday, June 22nd

Time	Event	Location
6:30 AM – 5:30 PM	Registration Desk Open	
7:00 AM – 8:00 AM	Poster Set-Up – Group 2	Four Square Foyer
8:00 AM – 9:20 AM	Poster Session – Group 2	Four Square Foyer
9:30 AM – 5:00 PM	Sponsoring Partner Tradeshow	Marco Polo

9:20 AM - NOON MORNING TECHNICAL SESSIONS				
ROOM	Four Square	Hopscotch	Duck Duck Goose	Red Rover
THEME	Best Practices for Integrating Collections into Education: an SCNet Symposium	New Solutions Sustainable Facilities	Demo Camp	New Solutions Conservation
9:20 AM	Anna Monfils - Integrating Biodiversity Data into the Undergraduate Curriculum: Opportunities for Collaboration	Bernhard Zipfel - Advancing research and knowledge in South Africa – towards a Natural Science Collections Facility	John Wieczorek - Kurator-Web: Making data quality-control accessible	Robert Waller - Effective preservation decision strategies
9:40 AM	Wendy Gram - Using Big Data in Undergraduate Courses	Dacha Atienza - How to use historical buildings to create a scientific venue	Qian Zhang - Kurator-YW: Using YesWorkflow hybrid queries to reveal data lineage from data curation activities	Corey Scobie - An evaluation of pre-preparation refrigerated storage conditions for ornithological specimens
10:00 AM – 10:20 AM	Coffee Break – Marco Polo			
10:20 AM	Joseph Kerski - Best Practices for Integrating GeoTechnology into Education	Jeffrey Hirsch - Collection Centers: What Museum Professionals Should Know about Design and Construction	Steve Dilliplane - More Than a Map: Adventures in Biodiversity Informatics Visualization	Taylor Soniat - Assessing levels of DNA and RNA degradation in frozen tissues archived in natural history collections
10:40 AM	Austin Mast - How to Bring the Worldwide Engagement for Digitizing Biocollections (WeDigBio) Event into Your Classroom	Walter Crimm - DMNS Avenir Center - Post Occupancy Evaluation	Matthew Collins - Jupyter.idigbio.org: Hosted Jupyter Notebooks with Biodiversity Datasets for Reproducible Research in R and Python	Mariana Di Giacomo - Using FTIR to identify slide mounting media: a first step towards best practices in the care of slide mounted specimens
11:00 AM	Elizabeth Ellwood - Natural History Collections Data and Biodiversity Literacy in Undergraduate Education (BLUE)	Walter Crimm - Design for Flexibility: What Can Be Learned from What Has Been Done	Talia Karim - iDigPaleo: in the Classroom and on the Sofa	Jean-Marc Gagnon - Deteriorating microscope slide mountants at the Canadian Museum of Nature: experimenting with some remedial approaches

ROOM	Four Square	Hopscotch	Duck Duck Goose	Red Rover
THEME	Best Practices for Integrating Collections into Education: an SCNet Symposium	New Solutions Sustainable Facilities	Demo Camp	New Solutions Conservation
11:20 AM	Gabriela Hogue - From Obscurity to Prosperity – Innovative Approaches to Broaden Diversity and the Future of Natural History Collections	Walter Crimm - Design for Flexibility: What Can Be Learned from What Has Been Done	Jason H. Best - Evaluating Herbarium Cabinet Capacity Using Computer Vision and Data Visualization	George Dante - A New Trick for Old Eyes - Contact Lenses for Taxidermy
			New Solutions Collections Management	
11:40 AM	Teresa Mourad - More Bang for Your Buck: Leveraging Resources with Professional Societies	Walter Crimm - Design for Flexibility: What Can Be Learned from What Has Been Done	Richard Levy - An economical method for creating custom QR code labels	Christine Haynes - 3D Printing as a Means for Casting Proportional Replicas Used in the Conservation of Articulated Skeletons
NOON – 1:30 PM	Lunch – Marco Polo			

1:30 PM – 4:10 PM AFTERNOON TECHNICAL SESSIONS				
ROOM	FOUR SQUARE	HOPSCOTCH	DUCK DUCK GOOSE	RED ROVER
THEME	Best Practices for Integrating Collections into Education: an SCNet Symposium	New Solutions Sustainable Facilities	New Solutions Collections Management	New Solutions Conservation
1:30 PM	Amy Bolton - Putting Digitized Collections to Work in K-12 Learning Environments	Walter Crimm - Design for Flexibility: What Can Be Learned from What Has Been Done	James A. Macklin - TDWG 101: The Importance of Biodiversity Information Standards (TDWG) to SPNHC	Thomas Gnoske - Chicago's Bushman Revisited
1:50 PM	ShaunAnn Peters - Bringing Natural History Collection-based research to the Community College Learner	James Calder - What is an Environmental Management System?	Amanda Millhouse - Analysis of Fossil Data Standards at the Smithsonian NMNH Department of Paleobiology	Fran Ritchie - Developing a best practice for historic mammal taxidermy
2:10 PM	Heather Lerner - Promoting Research and Outreach that Uses Collections by Teaching Undergraduate Collections-based Courses and Supporting Outreach Modules within Existing Classes	Jeff Joplin - Recycled Water, Ground Source Heat Pumps and Sustainability in the Avenir Collections Center	Kathy Hollis - More than just specimens in drawers: Creating a digital framework to connect analog archival data to fossil specimens in the USGS Paleontological Collection at the National Museum of Natural History	Sally Y. Shelton - Conservation, Preservation, and Interpretation of Paper Shale Fossils at Florissant Fossil Beds National Monument, National Park Service, Colorado
2:30 PM – 2:50 PM	Coffee Break – Marco Polo			

ROOM	Four Square	Hopscotch	Duck Duck Goose	Red Rover
THEME	Best Practices for Integrating Collections	New Solutions Sustainable	Solutions Collections	New Solutions Conservation

	into Education: an SCNet Symposium	Facilities	Management	
2:50 PM	P. Roxanne Kellar - Synthesizing Student-generated Data from Herbarium Specimens and Data from GenBank to Investigate Phylogenetic Diversity	Lukasz Bratasz - Evaluation of energy consumption in Yale Peabody Museum of Natural History	Stefanie Krause - On the way towards common principles in collections management - A handbook facilitating and promoting the creation and implementation of Management Policies on Digital Collections	Jean DeMouthe - Natural Geologic Materials in Art, Anthropology and Historical Collections: Issues & Communication
3:10 PM	Tanya Dewey - Asking and Answering Questions: Using a Flexible Querying Tool to Support Data Exploration and Hypothesis Testing in a Variety of Courses		Siro Masinde - Discovering non-digitized collections: A metadata approach	Katharine Corneli - Between a Rock and a Stone: preparators and conservators in practice
3:30 PM	Debra Linton - Best Practices for Designing Educational Modules using Collections Data: A Suggested Workflow		Genevieve E. Tocci - Addressing complex collections: Separating the concerns of research and collection management in natural science collections data	Yvette Harvey - A lure to take the biscuit: a Stegobium paniceum pheromone trial at WSY herbarium
3:50 PM	Roland Roberts - NSF Initiatives for Improving Education and Broadening Participation.		James A. Macklin - DINA: open source and open services - a modern approach to natural history collection management systems	Alyson Wilkins - Adaptation: Modifying Pest Management Strategies to Specific Situations

Time	Event	Location
4:10 PM – 5:00 PM	Poster Take-Down – Group 2	Four Square Foyer
5:30 PM – 11:00 PM	Banquet - buses leave the Curtis at 5:30 PM	DMNS

Friday June 23^d

Time	Event	Location
7:30 AM – 1:00 PM	Registration Desk Open	
9:00 AM – 10:30 AM	Special Interest Groups:	
	Uncover the invisible - What do we know about deterioration processes in mammal skins and hides?	Four Square
	SPNHC Wiki Hack-a-Thon	Hopscotch
	Storage Techniques for Art, Science, and History Collections (STASH) Preventive Conservation and Storage: STASH Flash I	Red Rover
9:00 AM – 9:45 AM	Special Interest Group: Herbaria Curation	Duck Duck Goose
9:45 AM – 10:30 AM	Special Interest Group: IMLS Grant Chat	Duck Duck Goose
10:30 AM – 11:00 AM	Coffee Break	Four Square
11:00 AM – 12:30 PM	Annual Business Meeting & Luncheon	Four Square
7:30 AM – 5:00 PM	Sponsoring Partner Tradeshow – Breakdown	Marco Polo
12:30 PM – 5:00 PM	Avenir Collections Center Tours – buses leave the Curtis at 12:30 PM	DMNS

Saturday, June 24th

Time	Event
6:00 AM – NOON	Registration Desk Open
7:00 AM – 5:30 PM	Fieldtrip: Florissant Fossil Beds National Monument (bus departs the Curtis at 7:00 AM)
7:00 AM – 2:30 PM	Fieldtrip: Nature to Nurture (bus departs the Curtis at 7:00 AM)
8:00 AM – 2:30 PM	Fieldtrip: People, Rocks, Fossils, Oh My! (bus departs the Curtis at 8:00 AM)
8:30 AM – 2:30 PM	Fieldtrip: Wild to Captive (bus departs the Curtis at 8:30 AM)
11:00 AM	Fieldtrip: Denver Botanic Gardens Behind-the-Scenes Tour (free admission from 9:00 AM – 9:00 PM with your SPNHC conference badge)
3:30 PM – 5:30 PM	Fieldtrip: Afternoon Add-On: Microbrews in RiNo (meet at Ratio Beerworks, 2920 Larimer St., at 3:30 PM)