

# PROGRAM

**TUESDAY  
MAY 19, 2015**

7:00 AM - 8:00 AM Continental Breakfast - Prefunction

## **OPENING SESSION CENTURY BALLROOM A**

8:00 AM Introductory Remarks-Elise V. LeCompte, Chair, SPNHC 2015 Local Organizing Committee

8:05 AM Welcome-- Dr. Andrew Bentley, President, SPNHC Council

8:10 AM Welcome-- Dr. Douglas S. Jones, Director, FLMNH

8:15 AM Welcome- Dr. W. Kent Fuchs, President, University of Florida

## **PLENARY SESSION - COLLECTIONS IN THE 21<sup>ST</sup> CENTURY CENTURY BALLROOM A**

8:30 AM In Defense of Specimen Collecting, Natural History Collections, and Bioethics  
Larry **Page**

9:00 AM Evidence of Evolution: Darwin's Cabinet of Curiosities  
Susan **Middleton**

9:30 AM Endless Forms, Most Useful  
Erin **Tripp**

10:00 AM BREAK

10:30 AM WeDigBio—Public Participation in Digitization of Natural History Collections Hits its Stride  
Austin R. **Mast**

11:00 AM Time to Grow a Pair: Institutional Leadership, Taxonomy and Natural History  
Quentin **Wheeler**

11:30 AM Building a Networked National Community for Collections  
Robert **Gropp**

## **SPNHC COMMITTEE MEETINGS**

	<b>Century Ballroom B</b>	<b>Century Ballroom C</b>	<b>Dogwood</b>
1:30 PM	Web	Conservation	International Relations Sessional Committee
2:30 PM	Best Practices	Professional Development	Legislation & Regulations
3:30 PM	Long Range Planning	Documentation	Emerging Professionals Group
4:30 PM	Membership	Conference	Publications

### **SPNHC Icebreaker - Powell Hall / Florida Museum of Natural History**

6:00 PM - 8:30 PM *\* First time SPNHC attendees, travel grant recipients and their mentors, SPNHC Council, Local Organizing Committee and SPNHC Committee Chairs are welcome to arrive at 6:00 PM \**

Complimentary bus transportation will run continuously between the Hilton Conference Center, Florida Museum of Natural History and Hume dorm beginning at 6:00 PM.

**WEDNESDAY  
MAY 20, 2015**

7:30 AM - 8:30 AM Continental Breakfast - Prefunction

**SPECIMENS FULL CIRCLE SYMPOSIUM 1  
CENTURY BALLROOM B**

8:50 AM	Something Old, Something New, Specimens Borrowed and Published Too: Integrating New Specimens and Old Collections into Research Evan P. <b>Anderson</b> and Dena M. Smith
9:10 AM	Using Museum Data for Large-Scale Questions: Modeling Florida Plant Diversity Charlotte C. <b>Germain-Aubrey</b> et al.
9:30 AM	Mining herbarium Databases to Discover Plant Species Associations in Central Arizona Daryl L. <b>Lafferty</b> and Leslie R. Landrum
9:50 AM	Accelerating Digitization of Biodiversity Research Specimens through Online Public Participation Elizabeth R. <b>Ellwood</b> et al.
10:10 AM	BREAK
10:30 AM	The Utility of Accessioned Collections for Conservation Management of Endangered Species Samantha M. <b>Wisely</b> , Paul M. Marinari and Oliver A. Ryder
10:50 AM	Providing the Computing Skills for the Next Generation of Biodiversity Scientists François <b>Michonneau</b> and Deborah Paul
11:10 AM	The New and Improved Armchair Botanist Richard K. <b>Rabeler</b>
11:30 AM	The Digital Roundabout: Data Flow from Field Project to Archive to New Project Ann <b>Molineux</b> and Liath E. Appleton
11:50 AM	Discussion

**GENERAL SESSION 1  
CENTURY BALLROOM C**

8:30 AM	Assessing the Database Practices of Natural History Collections Laura <b>Brenskelle</b>
8:50 AM	Digitization of Arthropod Diversity Data: Progress, Biases, and Research Rediness Nico M. <b>Franz</b> , Neil S. Cobb and Katja C. Seltmann
9:10 AM	The Vertnet Data Migrator: Cleaning Up the Community's Dirty Laundry Robert <b>Guralnick</b> et al.
9:30 AM	Collaborative Georeferencing and Data Repatriation: A Case Study from the Fishnet 2 Project Nelson E. <b>Rios</b> , Henry L. Bart and Mann Justin
9:50 AM	DNA Barcoding is Specimen Digitization David L. <b>Schindel</b> and Michael G. Trizna
10:10 AM	BREAK
10:30 AM	Skeletal Records Accompanying Images - Efficiency vs. Later Utility Richard K. <b>Rabeler</b>
10:50 AM	Not Your Average Herbarium Specimens - The Challenges of Digitizing the Macroalgae Sarah N. <b>Dutton</b> and Nicole Tarnowsky

**GENERAL SESSION 1  
CENTURY BALLROOM C  
(CONTINUED)**

- 11:10 AM Georeferencing at NYBG - Applying a Central Database and Site-Based Approach to Streamline Geographic Data Acquisition through the Point-Radius Method  
Charles J. **Zimmerman** and Elizabeth A. Kiernan
- 
- 11:30 AM DOI!: Mass Digitisation of the Herbarium Collection BR at the Botanic Garden Meise (Belgium)  
Sofie **De Smedt** et al.
- 
- 11:50 AM Introducing SEQDB for Comprehensive Management of Specimen-Derived DNA Sequences  
James A. **Macklin** et al.

**GENERAL SESSION 2  
DOGWOOD**

- 9:10 AM Introduction to the Lepidoptera Collections at the McGuire Center for Lepidoptera and Biodiversity at the Florida Museum of Natural History  
Andrew D. **Warren**
- 
- 9:30 AM The Relocation, Composition and Utilization of the Phillip V. Tobias Hominin Collections, University of the Witwatersrand, Johannesburg, South Africa  
Bernhard **Zipfel**, Cynthia Kemp and Sifelani, Jirah
- 
- 9:50 AM Fossil Exhibit Evolution and Survival of the Fittest Collections Management Plans: Managing the Collections De-Installation of the Smithsonian National Museum of Natural History Fossil Halls  
Amanda M. **Millhouse** and Kathy A. Hollis
- 
- 10:10 AM BREAK
- 
- 10:30 AM The Research and Outreach Potential of Small Collections: Engaging Students to Become Future Stewards  
Marcia A. **Revelez**
- 
- 10:50 AM The Botanic Garden Meise: In a Nut-Shell  
Piet **Stoffelen** et al.
- 
- 11:10 AM Experiences with Salvage and Restoration of Natural History Collections Damaged by Earthquakes and Subsequent Tsunami in East Japan, 2011  
Masahiro **Ohara** et al.
- 
- 11:30 AM A Renaissance for the Oregon State Ichthyology Collection  
Brian L. **Sidlauskas** et al.
- 
- 11:50 AM Vertebrate Zoology at the Illinois State Museum  
Meredith J. **Mahoney**

**POSTER SESSION 1  
COLLECTIONS / CONSERVATION**

- 1 Rolfe of Off-Site Museums for Restoration-Experiences with Salvage and Restoration of Natural History Collections Damaged by Earthquakes and Subsequent Tsunami in East Japan, 2011, Part II  
Daisuke **Sakuma** et al.
- 
- 2 Collections Program Technicians: A SWAT Approach to Collections Management  
Erin K. **Bilyeu** and Amanda N. Lawrence
- 
- 3 NMNH Paleobiology Registration: Past, Present and Future  
Jennifer L. **Strotman**, Mark S. Florence and Kathy Hollis
- 
- 4 Re-Housing Fluid-Preserved Vertebrate Specimens at the Michigan State University Museum  
Laura M. **Abraczinskas** and Barbara L. Lundrigan

**POSTER SESSION 1  
COLLECTIONS / CONSERVATION  
(CONTINUED)**

5	Installing Mobile Compact Storage on an Existing Footprint Lynn A. <b>Jones</b> and Tim White
6	Shifting Collections: A Case Study on How to Coordinate, Implement and Complete Moving Over 160 Cases of Specimens Meghann S. <b>Toner</b>
7	From Attic to Ground Floor: Relocating the Yale Peabody Museum's Oceania Ethnographic Collection Roger H. <b>Colten</b> , Maureen D. White and Rebekah DeAngelo
8	Down to the Nitty Gritty: A Case Study of Collection Policies and Procedures in the Ethnology Department at the Sam Noble Oklahoma Museum of Natural History Stephanie L. <b>Allen</b>
9	An Extreme Case of Byne's Efflorescence: A Novel, Two-Pronged Approach to Consolidation Claire M. <b>Curran</b> and Bruno P. Pouliot
10	NHC3: A Novel Approach to Encourage Student Participation in Natural History Collections Preservation, Research, and Outreach Christopher S. <b>Thigpen</b> et al.
11	The Conservation Project for the Bound Herbaria of Michał Fedorowski Magdalena <b>Grenda</b>
12	Integrating Physical and Intellectual Curation into Digitization Workflows Eric <b>Schuettpelz</b> et al.
13	What are *Your* Data Curation Challenges? Please Tell Us! J.A. <b>Macklin</b> et al.
14	Scripting to Save Time and Sanity C. Julie <b>Hoskin</b> and Adam T. Mansur
15	Digitizing the National Insect Collection: Capturing a Species Level Inventory Laura <b>Tancredi</b> and Patricia Gentili-Poole
16	The End of the Beginning: A Look Back From Near The Finish-Line of an IMLS Funded Silurian Reef Digitization Project Patricia <b>Coorough Burke</b> et al.
17	The Global Plants Initiative: DAO Herbarium Gisèle F. <b>Mitrow</b> et al.
18	Assessment of Student Involvement in the University of Iowa Paleontology Repository's NSF-Supported Project "Critical Renovation and Revitalization of the of the University of Iowa Fossil Plant Collection." Alyson E. <b>Wilkins</b> et al.
19	Using the Data We've Digitized Jessica A. <b>Utrup</b> , Derek Briggs and Susan Butts

**Emerging Professionals Luncheon (invitation only)**

Florida Museum of Natural History, Exhibits and Education Building (Powell Hall), McGuire Center Conference Room

12:10 PM - 1:30 PM

This luncheon is by invitation only. Please meet in the Hilton Conference Center Hotel Lobby at 12:10 PM. From there you will be escorted to the McGuire Center Conference Room, located in the Florida Museum of Natural History Exhibits and Education Building (Powell Hall). This is a 5-10 minute walk from the hotel to Powell Hall, across a major street. Motorized transportation will not be provided. If you prefer to drive over, there is parking available in designated areas around Powell Hall. (The McGuire Conference Room is ADA accessible; if you will need assistance, please contact someone at the conference registration desk by Wednesday morning at 10:00 AM.)

**SERNEC-TCN SIG Lunch Meeting** - Hilton Conference Center, Dining Pavilion  
(lunch available at the Hilton hotel restaurant at cost)

**Digitization TCN: The Key to the Cabinets: Building and Sustaining a Research Database for a Global Biodiversity Hotspot**

12:10 PM - 1:30 PM

The southeastern USA is botanically rich, with areas of high global biodiversity in both the Appalachians and the coastal plain. Millions of plant specimens have been collected from this region over the past four centuries, and these specimens and the information they contain currently reside in museums, or herbaria, at universities across the area. Scientists study these specimens intently; however, it is difficult to retrieve information at broad geographic and taxonomic scales without pipelines to move the information electronically from the specimen to an accessible pool of data. SERNEC, or the SouthEast Regional Network of Expertise and Collections, is a large regional network of botanical experts and collections that has, through an NSF-sponsored research coordination network (RCN) project, developed critical skills in biodiversity informatics. The current project will allow the SERNEC group to make data available for over 3 million specimens using the latest photography and information capture tools and to engage citizen scientists and students to assist in transcribing and georeferencing this large dataset. The ultimate goal of this project is to develop an imaged and databased set of over 3 million specimens from over 100 herbaria in one of the most floristically diverse regions in North America and a global hotspot of plant diversity. By partnering with Symbiota, Notes from Nature, GEOLocate, Adler Planetarium, iPlant/TACC, and Specify, the project will develop ways to best integrate various efforts for data accessibility.

This luncheon is open to all interested conference attendees. Lunch will be available for purchase from Albert's Restaurant. Seating for the meeting will be in Albert's Restaurant Dining Pavilion (see the Hilton map on page 16).

**SPECIMENS FULL CIRCLE SYMPOSIUM 2**  
**CENTURY BALLROOM B**

1:30 PM	The Contribution of Small Collections: A Case Study from Fuireneae (Cyperaceae) Heather E. <b>Dame</b> et al.
1:50 PM	Biodiversity Information Serving Our Nation (BISON), The Integrated Taxonomic Information System (ITIS) and the Federal Ecosystem of Biodiversity Data Gerald F. <b>Guala</b>
2:10 PM	The Scrub-Lovin' Grasshoppers (Orthoptera: Acrididae: <i>Melanoplus</i> : The Puer Group) of the Southeastern U.S.: Integrating Specimen Data From Then and Now for Maximum Effect Derek A. <b>Woller</b> and Hojun Song, Hojun
2:30 PM	Something Old, Something New, Specimens Borrowed and Published Too: Integrating New Specimens and Old Collections into Research Evan P. <b>Anderson</b> and Dena M. Smith
2:50 PM	Collaborating with Federal Partners: A New Online National Park Service Locality Database through the University of California Museum of Paleontology Erica C. <b>Clites</b> et al.
3:10 PM	BREAK
3:30 PM	Axonomic Concept Resolution for Voucher-Based Biodiversity Information Platforms Nico M. <b>Franz</b> et al.
3:50 PM	An Update on the Notes From Nature Project: Bringing a Proof of Concept into Full Production Robert <b>Guralnick</b> and Michael W. Denslow
4:10 PM	Specimen Label Digitization Using OCR/NLP Tools Integrated Within the Symbiota Processing Toolkit Edward E. <b>Gilbert</b> et al.
4:30 PM	The Processes, End Uses and Unexpected Bonuses of High Resolution Imaging of Entomology Collection Items Peter K. <b>Lillywhite</b>
4:50 PM	Mobilizing Fossils for Global Change Research Patricia A. <b>Holroyd</b> and Charles R. Marshall
5:10 PM	Discussion

**GENERAL SESSION 3  
CENTURY BALLROOM C**

1:30 PM	Cooperative Protection of Sensitive Species Data: A Partnership Between Natural Heritage Programs and the Collections Community in the Northeastern USA Aaron <b>Marcus</b> et al.
1:50 PM	Global Registry of Biodiversity Repositories (GRBIO): Status Report and Future Directions David E. <b>Schindel</b> and Adele E. Crane
2:10 PM	Scientific Collections: Engaging Across Disciplinary Boundaries to Combat Emerging Infectious Diseases Eileen <b>Graham</b> and David E. Schindel
2:30 PM	Numbers and Things: The Catalogs of the Malacology Collection at the Academy of Natural Sciences Paul <b>Callom</b> and Gary Rosenberg
2:50 PM	Aquatic Invasives: Documenting the Fish, Mollusks, Algae and Plants Threatening North America's Great Lakes Jonathan W. <b>Toll</b> , Kenneth M. Cameron and Melissa Tulig
3:10 PM	BREAK
3:30 PM	Challenges and Opportunities for the Management of U.S. Federal Scientific Collections Christopher A. <b>Norris</b> et al.
3:50 PM	Challenges and Opportunities for the Management of U.S. Federal Scientific Collections Christopher A. <b>Norris</b> et al.
4:10 PM	Challenges and Opportunities for the Management of U.S. Federal Scientific Collections Christopher A. <b>Norris</b> et al.
4:30 PM	Challenges and Opportunities for the Management of U.S. Federal Scientific Collections Christopher A. <b>Norris</b> et al.
4:50 PM	Challenges and Opportunities for the Management of U.S. Federal Scientific Collections Christopher A. <b>Norris</b> et al.

**GENERAL SESSION 4  
DOGWOOD**

1:30 PM	Sharing Knowledge in Collections: Building a Wiki on Collection Management Peter <b>Giere</b> et al.
1:50 PM	Scaling the Heights: Results of Benchmarking Collections Access Equipment and Policies Walt <b>Crimm</b>
2:10 PM	Collections Space - The Final Frontier: Planning for the Future of Collections Storage Space Carol <b>Butler</b>
2:30 PM	Crunched for Space: Expansion at the New York Botanical Garden Herbarium Lance E. <b>Jones</b> and Nicole Tarnowsky
2:50 PM	Kurator: An Extensible, Open-Source Workflow Platform for Users and Makers of Data Curation Tools Bertram <b>Ludäscher</b> et al.
3:10 PM	BREAK
3:30 PM	Water, Water Everywhere and Where Exactly is it? Considerations for Describing Oceanic Collecting Localities When Coordinates Are Not Available Andrew D. <b>Williston</b>
3:50 PM	Practical Implementation of Best Practice Guidelines for Genetic Re-Sources Associated with Natural History Collections Breda M. <b>Zimkus</b> and Linda S. Ford

**GENERAL SESSION 4  
DOGWOOD  
(CONTINUED)**

- 4:10 PM SCAN: The Schistosomiasis Collection at the Natural History Museum  
Muriel E. **Rabone** et al.
- 
- 4:30 PM Going Back to the Source: Enriching Access Through Field Notes and Literature  
Carolyn **Sheffield** et al.
- 
- 4:50 PM Improved Storage of a Radioactive Geologic Collection - A Case Study  
Christian M. **Cicimurri** and Lynn B. Dobbs

6:30 PM - 8:30 PM **Vendor's Reception - Harn Museum of Art**  
Complimentary bus transportation will run continuously between the Hilton, Harn Museum of Art and Hume dorm beginning at 6:20 PM.

**THURSDAY  
MAY 21, 2015**

7:30 AM - 8:30 AM Continental Breakfast - Prefunction

**SPECIMENS FULL CIRCLE SYMPOSIUM 3  
CENTURY BALLROOM B**

- 8:50 AM A Picture is Worth a Thousand Words: Imaging in Digitization Workflows  
Vladimir **Blagoderov**, Vladimir and Laurence Livermore
- 
- 9:10 AM INSECT: An Innovative Tool for Automatic Digitization of Natural History Collections  
Laurence **Livermore** et al.
- 
- 9:30 AM Putting Our Images to Work: Using Digitized Fossil Beetles to Study a Global Climate Transition  
Lindsay J. **Walker**, Dena M. Smith and Talia S. Karim
- 
- 9:50 AM Optimizing a Compression Fossil Digitization Workflow at the University of Colorado  
Talia S. **Karim** and Lindsay J. Walker
- 
- 10:10 AM BREAK
- 
- 10:30 AM Joining Up for Digitization - A Pilot Project Between KEW and The Natural History Museum  
Alan **Paton** et al.
- 
- 10:50 AM Inclusion of Botany-Naive Undergraduates in Digitization Workflows: It is Possible!  
Emily L. **Gillespie**, Joshua J. Hamrick and Kristen N. Hammond
- 
- 11:10 AM Digital Collections Programme: A Structured Approach to Mass Digitization  
Ben **Atkinson**
- 
- 11:30 AM Follow a Fossil Full Circle from Collection to Research to Outreach and Interpretation Through the Field  
Museum's Silurian Reef Digitization Project  
Paul S. **Mayer** et al.
- 
- 11:50 AM Discussion

**CONTRIBUTIONS OF SMALL NATURAL HISTORICAL COLLECTIONS SYMPOSIUM 1  
CENTURY BALLROOM C**

8:10 AM	Why Small Collections - What is Unique, Valuable and Important? Anna K. <b>Monfils</b> and Gil Nelson
8:30 AM	Human Diversity and the Opportunities to Engage Students in Small Collections Roland P. <b>Roberts</b>
8:50 AM	Aim-Up: Bringing Big Data to Educators at Small Institutions Kurt E. <b>Galbreath</b> and Joseph A. Cook
9:10 AM	Small Collections Working Together: <a href="http://collectionseducation.org">collectionseducation.org</a> Erica R. <b>Krimmel</b> et al.
9:30 AM	Citizen Science: A Symbiotic Future for Research and Education Using Biological Collections Emily K. <b>Meineke</b> and Steven D. Frank
9:50 AM	Collections Internships for College Students: Designing an Interdisciplinary Program Emily P. <b>Smith</b>
10:10 AM	BREAK
10:30 AM	Small Entomology Collections: How to Manage Christy L. <b>Bills</b> and Janaki Krishna
10:50 AM	Transforming Accesibility to the Rich, Site-Based, Multi-Taxon Collections of Field Stations; A Case Study from Archbold Biological Station Hilary M. <b>Swain</b> and Gil Nelson
11:10 AM	Managing Multiple Small Collections in an Interdisciplinary Museum Lena F. <b>Hernandez</b>
11:30 AM	Challenges and Obstacles to Digitizing Small Paleont Paleontology Collections Laura A. <b>Vietti</b>
11:50 AM	Research Opportunities Using Data from Small Collections Pamela S. <b>Soltis</b>

**GENERAL SESSION 5  
DOGWOOD**

8:30 AM	Experimenting with a Workflow to Speed Up the Digitization of a Large Collections of Pinned Entomological Specimens Patricia <b>Gentili-Poole</b> and Jessica Bird
8:50 AM	Bone Maceration and Bone Degreasing - A Necessary Tool for Preserving Natural History Collections Guenther <b>Weber</b>
9:10 AM	Cleaning Protocol for Mercuric Chlorida Contaminated Herbarium Cases Melinda D. <b>Peters</b> , Douglas Fallon and Michael Hunt
9:30 AM	Smoking Under Scrutiny: Evaluating Methods for the Removal of Ammonium Chloride Residue from Fossils Edward C. <b>Shelburne</b> and Angella Thompson
9:50 AM	Overcoming the Inherent Problem of Detaching Hairs on Caribou Hides Fran E. <b>Ritchie</b>
10:10 AM	BREAK
10:30 AM	Integrated Pest Management for the Angelo State Natural History Collections: An Approach for Small Collections Barbara F. <b>Welch</b> , Robert C. Dowler and Marcia A. Revelez
10:50 AM	Algae in Herbaria, In History, and In Art Maura C. <b>Flannery</b>



**GENERAL SESSION 5  
DOGWOOD  
(CONTINUED)**

11:10 AM	Risk Under the Microscope: Risk Management for Museum Victoria's Scientific Slide Collection Danielle <b>Measday</b> , Alice Cannon and Robert Waller
11:30 AM	Stitching Data Together Margaret L. <b>Landis</b> and Richard A. Lupia
11:50 AM	Beyond "No Food or Drink Allowed in the Gallery:" Best Practices for Food in Cultural Institutions Fran E. <b>Ritchie</b> , Bethany Palumbo and Rebecca Newberry

**POSTER SESSION 3  
DIGITIZATION**

1	Integrating Across Collections: Parasite/Host Relationships in the Arctos Collections Database Mariel L. <b>Campbell</b> et al.
2	Global Registry of Biodiversity Repositories: Function and Application Adele E. <b>Crane</b> and David E. Schindel
3	Emergence of Three Voucher-Based Neotropical Biodiversity Portals Edward E. <b>Gilbert</b> , Nico M. Franz and Benjamin Brandt
4	Collections Help to Control Invasives at Borders Gisèle F. <b>Mitrow</b> et al.
5	Getting the Family Together: Digitizing the Icacinaceae Katy A. <b>Estes-Smargiassi</b> , Gregory W. Stull and Steven R. Manchester
6	ARPO - Augmented Reality for Public Outreach Melody A. <b>Basham</b> et al.
7	Digitizing Herbarium Collections in Partnership: A Collaboration Between the NC Museum of Natural Sciences and the NC State University Vascular Plant Herbarium Natalia <b>Zbonack</b> et al.
8	Looking for Treasures in a Mega-Diverse Country: Natural Collections in Ecuador Maria C. <b>Segovia-Salcedo</b> , Nestor A. Acosta-Buenano and Luis Carrasco
9	Toward Automated Identification of Chagas Disease Vectors Hannah <b>Owens</b> et al.
10	Restoring Natural History Collections of Native Amphibians and Reptiles in South Dakota Gabrielle A. <b>Maltaverne</b>
11	Restoring a Degraded Mammal Collection at a Small University Cheyenne <b>Gerdes</b> , Sean P. Maher, and Lynn W. Robbins
12	Public Engagement Through Volunteers in Collections Dawn <b>Roberts</b>
13	Investigating Calcium Growths in Museum Victoria's Fluid-Preserved Marine Invertebrate Collection Danielle <b>Measday</b> et al.
14	Cowboy Conservation: The Treatment of a Taxidermy Leatherback Turtle in Cordova, Alaska Fran E. <b>Ritchie</b>
15	Use of Black Carpet Beetles ( <i>Attagenus Unicolor</i> ) as an Alternative to Carrion Beetles ( <i>Dermestes Maculatus</i> ) for Cleaning Small Fragile Skeletons for Natural History Collections John J. <b>Ososky</b>
16	Organization, Expansion, and Digitization of the Larval Fish Collection at The Virginia Institute of Marine Science Sarah K. <b>Huber</b> et al.

**POSTER SESSION 3  
DIGITIZATION  
(CONTINUED)**

- 17 Rehydration of Desiccated Fish Specimens in The Arkansas State University Museum of Zoology Ichthyology Collection  
Mary **Rath** et al.
- 
- 18 Assessing Research Potential of Historic Archaeological Collections: A Case Study of Three Florida Assemblages  
Neill J. **Wallis**, Mark C. Donop and Kristen C. D. Hall

**DEMOCAMP DEMONSTRATIONS  
CENTURY BALLROOM B**

- 1:30 PM Lifemapper's Species Distribution Modeling Based on Idigbio Biocollections  
Aimee **Stewart** et al.
- 
- 1:50 PM Smithsonian Transcription Center - Discovering Smithsonian Collections through Volunteer Transcription  
Sylvia S. **Orli**, Patricia Gentili-Poole and Jessica Bird
- 
- 2:10 PM Global Registry of Biodiversity Repositories: Function and Application  
Adele E. **Crane** and David E. Schindel
- 
- 2:30 PM ARCTOS: A Collaborative Web-Based Collections Database and Management System  
Mariel L. **Campbell** et al.
- 
- 2:50 PM Rapid Collection Inventories  
Jason **Best** and Tiana Rehmann
- 
- 3:10 PM BREAK
- 
- 3:30 PM The New Virtual Silurian Reef: How Building a Website with the Museum's Database can Streamline Web Development  
Marc **Lambruschi** et al.
- 
- 3:50 PM Specify for the Web, A New Generation Specify for Biological Collections Digitization and Collaborative Databases  
James H. **Beach** and Ben Anhalt
- 
- 4:10 PM Taking Collection Data Places Where It Has Never Gone Before - Specify Insight for the iPad  
Rod **Spears** and James H. Beach
- 
- 4:30 PM A Scientific Workflow Tool for Targeted Data Quality Improvement of Natural Science Collection Data  
Paul J. **Morris** et al.
- 
- 4:50 PM YESWORKFLOW: How to Render a Data Curation Script as a Workflow in Under 10 Minutes  
Bertram **Ludäscher** et al.

**CONTRIBUTIONS OF SMALL NATURAL HISTORICAL COLLECTIONS SYMPOSIUM 2  
CENTURY BALLROOM C**

- 1:30 PM Strategies for Digitizing Small Vertebrate Collections  
Laura M. **Abraczinskas**
- 
- 1:50 PM The Fairbanks Museum: A Small, Rural, New England Natural History Museum's Challenge to Adapt  
Mary B. **Prondzinski**
- 
- 2:10 PM SCNET: Supporting Digitization in Small Natural History Collections  
Gil **Nelson** and Anna K. Monfils
- 
- 2:30 PM Getting Started: Digitizing Multiple Small Collections at UCSB  
Laurie **Hannah**
- 
- 2:50 PM Recruiting and Managing Volunteers in Small Collections  
Melissa B. **Islam**

**CONTRIBUTIONS OF SMALL NATURAL HISTORICAL COLLECTIONS SYMPOSIUM 2  
CENTURY BALLROOM C  
(CONTINUED)**

3:10 PM	BREAK
3:30 PM	Ten Years of the Society of Herbarium Curators: Past, Present and Future Andrea <b>Weeks</b>
3:50 PM	The Role of Human Infrastructure in Biodiversity Informatics: SERNEC as a Model for Community Development Zack E. <b>Murrell</b> , Michael W. Denslow and Joseph McKenna
4:10 PM	Large and Small Collections: Partners in a Time of Challenges and Opportunities Barbara K. <b>Thiers</b>
4:30 PM	A List of U.S.-Based Natural History Collections François <b>Michonneau</b> and Larry Page
4:50 PM	The Role of Small Natural History Collections in Contributing to Understanding Species' Distributions Travis D. <b>Marsico</b> et al.

**GENERAL SESSION 6  
DOGWOOD**

1:30 PM	Much More than a "Cabinet of Curiosities:" Communicating the Value of Collections Christopher A. <b>Norris</b>
1:50 PM	Teaching with Bones: Utilizing Bio-Archaeology Reference Collections for Interdisciplinary Instruction Emily P. <b>Smith</b>
2:10 PM	Science Communication of Fossil News in China Facheng <b>Ye</b>
2:30 PM	Unlocking Hidden Potential: Using Museum Specimens to Engage and Educate Children with Autism Randy A. <b>Singer</b>
2:50 PM	Integrating Citizen Science into High School Classrooms Using Notes from Nature Kari M. <b>Harris</b> and Jill L. Czerwonky
3:10 PM	BREAK
3:30 PM	Broadening Participation in the Biological Sciences Gil <b>Nelson</b> and Greg Riccardi
3:50 PM	Object Based Inquiry: Collections and Critical Thinking Colleen R. <b>Carter</b>
4:10 PM	Door-to-Door Natural History Richard A. <b>Busch</b>
4:30 PM	Community Collections: Partnership Programs at The Denver Museum of Nature & Science Eric <b>Godoy</b>

**WEDIGBIO SPECIAL INTEREST GROUP (SIG) SESSION  
HAWTHORNE**

1:30 PM	WeDigBio: Worldwide Engagement for the Digitization of Biocollections Paul G. <b>Kimberly</b> et al.
1:50 PM	WeDigBio: Worldwide Engagement for the Digitization of Biocollections Paul G. <b>Kimberly</b> et al.
2:10 PM	WeDigBio: Worldwide Engagement for the Digitization of Biocollections Paul G. <b>Kimberly</b> et al.

**WEDIGBIO SPECIAL INTEREST GROUP (SIG) SESSION  
HAWTHORNE  
(CONTINUED)**

2:30 PM	WeDigBio: Worldwide Engagement for the Digitization of Biocollections Paul G. <b>Kimberly</b> et al.
2:50 PM	WeDigBio: Worldwide Engagement for the Digitization of Biocollections Paul G. <b>Kimberly</b> et al.
3:10 PM	BREAK

**Banquet & 30th Anniversary Celebration - Touchdown Terrace/ Ben Hill Griffin Stadium**

Cocktail Hour & Cade Museum Demonstrations: 6:30 PM to 7:30 PM

6:30 PM - 11:00 PM Dinner & Dancing: 7:30 PM to 11:00 PM

*\* Banquet tickets can be purchased prior to the event at the conference registration desk for \$75 \**

Complimentary bus transportation will run continuously between the Hilton, Touchdown Terrace and Hume dorm beginning at 6:20 PM.

**FRIDAY  
MAY 22, 2015**

8:30 AM - 11:30 AM Florida Museum of Natural History - Behind-the-Scenes Research Collections and Exhibit Tours

Florida Museum of Natural History, Dickinson Hall  
&  
Florida Museum of Natural History, McGuire Center for Lepidoptera & Biodiversity, Powell Hall  
Exhibit Tours  
8:30 AM - 11:30 AM  
Florida Museum of Natural History, Powell Hall

The Florida Museum of Natural History is Florida's official state natural history museum. With over 40 million objects and specimens, it is one of the nation's largest and fastest-growing natural history museums. Although its primary geographic emphasis is on Florida, the Caribbean Basin and Latin America, the collections span the globe. Many of its collections rank among the top ten nationally and internationally. Its notable Lepidoptera collection is one of, if not the largest, in the world. Centered around Florida and the Southeast, the Museum's exhibits and educational programs focus on the rich and diverse nature of our natural and cultural world. Fascinating, stimulating permanent and temporary exhibits like the Butterfly Rainforest and a A T-Rex Named Sue draw people from around the globe. Since its beginning in 1891, the Florida Museum has evolved into a world-class institution committed to inspiring people to value the biological richness and cultural heritage of our diverse world and make a positive difference in its future.

*Complimentary bus transportation will run continuously between the Hilton, McGuire Hall/Powell Hall and Dickinson Hall beginning at 8:20 AM. The last bus pickup will be at McGuire/Powell Hall at 11:30 AM followed by the last pickup at Dickinson Hall at 11:40 AM.*

Behind-the-Scenes Research Collections Tours  
8:30 AM - 11:30 AM  
Florida Museum of Natural History, Dickinson Hall

The Museum's Research and Collections building, Dickinson Hall, houses the following collections and programs on three different floors—Archaeology, Florida Program for Shark Research, Genetic Resources Repository, Herbarium, Herpetology, Ichthyology, Invertebrate Zoology, Mammalogy, Molecular Systematics and Evolutionary Genetics Lab, Ornithology, Invertebrate Paleontology, Paleobotany and Palynology, Vertebrate Paleontology. This tour is set up like an open house, so that participants may wander at their own pace from range to range and meet with various collections staff throughout the entire building. If you wish to visit these collections, please exit the bus at Dickinson Hall. (Each floor of Dickinson Hall is ADA accessible; if you will need assistance, please contact someone at the conference registration desk before Friday morning.)

8:30 AM - 11:30 AM Florida Museum of Natural History - Behind-the-Scenes Research Collections and Exhibit Tours (Continued)

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Behind-the-Scenes Research Collections Tours

8:30 AM - 11:30 AM

Florida Museum of Natural History, McGuire Center for Lepidoptera & Biodiversity, Powell Hall

The McGuire Center for Lepidoptera and Biodiversity is attached to the Museum's exhibit and education building, Powell Hall. If you wish to visit the McGuire Center, please exit the bus at Powell Hall. There will be guides outside the building to escort you to the proper location. There you will be met by museum staff who will lead you through the McGuire Center collections and research labs. (The McGuire Center is ADA accessible; if you will need assistance, please contact someone at the conference registration desk before Friday morning.)

Exhibit Tours

8:30 AM - 11:30 AM

Florida Museum of Natural History, Powell Hall

The Museum's exhibits are housed in Powell Hall. If you wish to visit the exhibits, please exit the bus at Powell Hall. There will be guides outside the building to escort you to the proper location. Once inside, you will be met by museum staff who will lead you through the exhibit halls. (Powell Hall is ADA accessible; if you will need assistance, please contact someone at the conference registration desk before Friday morning.)

12:00 PM - 2:30 PM **SPNHC Annual Business Meeting Luncheon** - Century Ballroom A  
(open to all; included in registration; please bring your lunch ticket to the event)

**Century Ballroom B**

**Century Ballroom C**

**Dogwood**

2:45 PM - 4:30 PM Emerging Professionals SIG

"TCN Coffee Klatch" SIG

Sustainability SIG

**Emerging Professionals SIG**

The Emerging Professionals SIG meeting includes 10-15 minute informal presentations (1:30-3:30), followed by a Question & Answer session with an amazing group of panelists (3:30 PM - 4:30 PM).

**"TCN Coffee Klatch" SIG**

Current TCN participants and a representative from NSF will be available to answer questions about the ADBC program for non-TCN SPNHC participants. It will be an informal mentoring/networking session for collections outside of the existing ADBC network. It will give participants the opportunity to ask questions about the proposal process, and learn more about being a part of a TCN from colleagues that have experience with the program.

**Sustainability SIG**

One of the main aims of museums is to preserve the collective cultural and scientific heritage for perpetuity. Sustainability is therefore, by definition, at the very heart of museums, but can mean very different things to different people. Collection care and documentation standards are important for the sustainability of collections. Good energy management and water-saving measures are important for environmental sustainability; at the same time, increasing resource-efficiency comes under the same heading as funding and the financial sustainability of the museum as an organization. The high level of expertise present in museums is leading to calls for this to be translated into more actively helping the transition towards a more sustainable society. And there is also the question of the "sustainability of sustainability" – at the moment, sustainability is high on the agenda, but would this remain the case if political and/or managerial frameworks changed? At this meeting, we seek to build momentum on the subject, with a view to have a much wider debate at the SPNHC 2016 in Berlin, Germany.

**Downtown Festivities** - (Transportation provided until 11:00 pm)

*Visit fine restaurants, attend a play or film at the Hippodrome Theatre, or dance the night away in a variety of clubs. Take advantage of Visit Gainesville's Historic Downtown Gainesville Dine-Around—a packet of special offers and discount coupons for various downtown restaurants (included in your conference bag). Several of these restaurants are planning special menus and treats related to natural history and this conference.*

**Natural History Trivia Quiz Night**

First Magnitude Brewing Company

Quiz starts at 6:30 pm.

5:30 PM - ???

Join us at the First Magnitude Brewery in downtown Gainesville as we continue a fun-filled tradition started last year at the SPNHC 2014 annual meeting in Cardiff-- the SPNHC Natural History Trivia Quiz. We promise a rip-roaring evening sampling local craft beers, yummy food, and natural-history themed brainteasers. "Valuable" prizes will be awarded to the first, second and third place trivia teams. For those that don't enjoy beer, non-alcoholic drinks will be available from the foodtruck.

Complimentary bus transportation will run continuously between the Hilton, Hume dorm, downtown Gainesville (Hampton Inn) and First Magnitude Brewing Company beginning at 5:30 PM. Last bus will leave First Magnitude Brewing Company at 9:00 pm. Last bus will leave downtown at 11:00 pm.

**SATURDAY  
MAY 23, 2015**

**Workshop-- SERNEC-TCN and Symbiota Software Group - Century Ballroom B/C**

Symbiota is a software package that is currently being used by many thematically, regionally, or taxonomically defined digitization efforts to publish, edit and maintain primary biodiversity data. "The Key to the Cabinets" is a Thematic Collection Network (SERNEC-TCN) funded through the NSF-ADBC program. The focus of the SERNEC-TCN is to build a biodiversity database of southeast U.S. plants and Symbiota is an important tool being leveraged for this effort. The SERNEC Symbiota portal (<http://serneportal.org>) is being used to mobilize and aid in digitizing 4.7 million specimens from 107 herbaria and new functionality is being developed to support this massive digitization effort, expanding this to all the southeast herbaria. This hands-on workshop is designed for data contributors and will focus on managing (processing and publishing) herbarium data within the SERNEC Symbiota portal. The focus will be on publishing and processing data in Symbiota, but will also be tailored to participants' interests. An emphasis will be placed on herbarium records and associated images; however, this workshop is open to all interested in getting started or wanting to learn more about managing data and images in Symbiota regardless of taxonomic or regional scope. The workshop will likely concentrate on account creation, account management, migrating data in and out of Specify, publishing data to iDigBio, managing taxonomies and linking duplicates from other collections. Georeferencing with the GEOLocate module will also be highlighted. A personal laptop is required to participate. Participants will be polled before the event to gauge interests and tailor the agenda accordingly.

8:30 AM - 12:30 PM

**Global Plant Initiative Steering Committee Meeting - Hilton Conference Center**

*Open to Global Plant Initiative members only*

8:30 AM - 5:00 PM