iDigBio Mollusk Digitization Workshop
at the 83rd American Malacological Society meeting

DRAFT Agenda
4 May 2017

Saturday, July 15

6pm   Dinner at Caffé Gelato in Newark, DE. Gathering event to make introductions and go over the schedule and define scope of work for the meeting.

Sunday, July 16

Mollusk Collection Digitization: current status, efficient workflows and finding new ways forward

8:30 – 8:45   Introduction to the Mollusk Digitization Workshop (Sierwald, Shea, Bieler, Rosenberg)

8:45 – 9:00   Introduction to iDigBio & weDigBio (Paul, Love)

9:00-10:45   The US Mollusk Collections. 2 minute talks to introduce each collection

10:45- 11:00 Coffee Break

11:15 – 11:45 Status of our collections with survey results (Bieler)

11:45 – 12:00 Introduction to InvertEBase Portal for Mollusks (Shea & Sierwald)

12:00 – 1:00 LUNCH

1:00 – 2:30   **Discussion: The trouble with Mollusks.** (leaders from established/paleo/new collection) Find the edges of the problem we are all facing by discussing all the dichotomies found in mollusk collections and how to develop workflows for each: extant/paleo timeframe, live/dead collected, dry/wet preparation types, tiny/huge specimens, few/many per lot, land/water habitats, & photographing 3D objects. What can established collections teach new collections and vice versa? Identify ideal workflows in each category? Breakout sessions as required. Conclude with review of notes.

2:30-3:00   COFFEE BREAK

3:00 – 4:30   **Discussion: How can we standardize and find efficiencies?** (Bieler and Rosenberg) Based on the today's introduction to the status of the US mollusk collections and our understanding of all the troubles we routinely encounter, is there a better way forward? What are the biggest conceptual hurdles to advancing mollusk digitization and mobilization? How can we prioritize these issues to get the most progress for the least cost? Discuss taxonomic authority files for Mollusca, MolluscaBase, WoRMS, GBIF, iDigBio, Breakout sessions as necessary. Conclude with review of notes.

6pm   Dinner at Caffé Gelato.

Day 2: Georeferencing: North American terrestrial, aquatic, and marine habitats

8:00 -9:00   Introduction to georeferencing concepts in biocollections. Nelson Rios, Tulane

9:00 – 10:00   GeoLocate plug-ins in EMu, Specify, Symbiota and others. Nelson Rios, Tulane

10:00-10:30   Coffee Break

10:30 – 12:00   **Discussion: Developing a Cross-Community Approach to Georeferencing**. We are all in the same boat – too many specimens and too few workers. How can we facilitate robust georeferencing of legacy specimens in all the US Mollusk collections? Breakout sessions as necessary. Conclude with review of notes.

12:00-12:30   Georeferencing Summary and Workshop Conclusion

12:30 – 1:30   LUNCH

President's Symposium - *Mollusk research in a digital world: creating, integrating and mining large datasets*

The symposium will introduce the workshop to the AMS membership, explore digitization topics that were not able to be fully addressed at the workshop, and expand the conversation to include other digital datasets that are available for mining, integrating into collections, and how they are and could be for research. Should include reasons why other disciplines should care about all this – how digitization can impact all areas of biological research.

- **Rüdiger Bieler**   Mollusk collections in the United States: where they look like now, where we are going with digitization & georeferencing, and how we are getting there.

- **Gary Rosenberg**   Data standardization: ideas about how to do it (using provenance data) and why to do it (integrating molluscan databases with national/international projects like GBIF)

- **Jann Vendetti**   Using citizen scientists to create novel digital datasets for Mollusk research – how many of the known species in/around LA are recovered during a Snail Blitz? Also - iNaturalist's SLIME project

- **Alex Ziegler**   Moving quickly from morphological data acquisition to data analysis using digital technologies & linking results to other large datasets (e.g, MorphBank/museum specimen data/genetic data.

- **Mike Vecchione** Digital data in the deep sea: using ROV imagery & data for biodiversity research (with MBARI?) Using NOAA EX data to publish on cephalopod biodiversity