Conference Abstract

SPNHC 2017 Natural History Collections
Biodiversity Informatics 101 Short Course Insights

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Abstract

Many digitization-focused talks at recent Society for the Preservation of Natural History Collections (SPNHC, spnhc.org) meetings illustrate the impact of biodiversity informatics tools, standards, and resources on collections management tasks. Collections and data managers need up-to-date data skills and knowledge to manage and curate their growing digital collections. The National Science Foundation (NSF) Program, Advancing the Digitization of Biological Collections (ADBC), highlights the need for collections informatics literacy in support of creating and sustaining digital resources. The vision for a Network Integrated Biocollections Alliance (NIBA), Beach et al. 2010 conceptualized the necessity for a program such as the ADBC. In their subsequent NIBA Implementation Plan, Beach et al. 2012, goal three is "Enhance the training of existing collections staff and create the next generation of biodiversity information managers."

In the rapidly changing digital collections landscape, the collection staff find their roles evolving. Technical discussions in meeting symposia and some demos showcasing informatics and technological advances may often cover both expertise and background knowledge the audience lacks. In addition, where there are challenges in informatics literacy within the collections community, one can also observe a breakdown in understanding and communication of overlapping informatics-related goals and efforts between collections staff and their informatics counterparts and administration.
In order to facilitate overall understanding of the biodiversity informatics landscape, we developed the Natural History Collections Biodiversity Informatics 101 short course, offered just before the start of the SPNHC 2017 meeting. The aim of this one day short course was to provide introductory materials on a wide range of biodiversity informatics topics. Topics covered included the basics of natural history collection data and digital object lifecycle management, including digitally archiving as well as mobilizing collections data and participation in global initiatives. The course was led by museum and informatics professionals with various expertise in natural history collections digitization and informatics.

The presentations were distributed across three main themes: 1) what is natural history biodiversity informatics? 2) what are some of the current relevant projects? and 3) how to get involved. We were able to gather feedback during the course day, throughout the SPNHC 2017 meeting, and in a post-short-course survey. Here we share an assessment of the course, the feedback received as it relates to skills and workflow assessments and needs, possible future iterations of this short course, and a better understanding of the informatics literacy skills landscape of the SPNHC community. We seek your input on this topic for the 2018 TDWG and SPNHC joint meeting and for TDWG's future role in this capacity building effort.

**Keywords**

biodiversity informatics, SPNHC, TDWG, capacity building, collections management, digitization

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References