Organizing Knowledge in Museums: A Review of Concepts and Concerns

Hannah Turner
Simon Fraser University, School for Interactive Art and Technology, 250-13450 102nd Avenue, Surrey, BC, Canada, V3T 0A3,
Primary Email: <Hannah.trnr@gmail.com>,
Secondary Email: <Hannah_turner@sfu.ca>

Hannah Turner is a postdoctoral fellow in the Making Culture Lab at the School of Interactive Arts and Technology (SIAT) at Simon Fraser University in Surrey, BC. She received her PhD in 2015 on the topic of knowledge infrastructures and museum cataloging from the University of Toronto. Her research has explored histories of ethnographic documentation and the computerization of museum catalogs. She is currently working on writing histories of virtual reality in museums, and understanding the social and ethical issues when documenting museum objects using 3D scanners.


Abstract: This paper critically analyzes and ties together contemporary perspectives in information studies, science and technology studies, knowledge organization and indigenous postcolonial theory (particularly concerning ontologies and knowledge organization) and defines the development of a field of thought for museum knowledge organization. It also proposes a selection of terms or ideas for the field of knowledge organization in museums and begins to historicize the development of the field. This paper calls attention to the practical and intellectual issues raised when other knowledges “meet” museums systems as well. The history of the study of museums within Foucauldian thought, the origins of contemporary ideas of the socio-technical, the utility of the metaphor of infrastructure, and the notion of technological affordance are all ideas that have been useful in understanding standardized systems in large institutional repositories, especially as museum collections continue to be digitized and circulated widely by communities. This paper plots the issues we as scholars and professionals should be attentive to when studying the organization of knowledge in museums by developing a theoretical standpoint that engages seriously with the ethics and politics of knowledge.

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1.0 Introduction

The topic of organizing knowledge in museums has been recently addressed (Duarte and Belarde-Lewis 2015; MacNeil 2016; Marty and Jones 2008; Turner 2015), and increased attention is being paid to developing this subject within a field of study and a history of ideas. Much like in the field of archives and libraries, histories of knowledge organization systems in museums should be written, and this should be done with attention paid to the power relationships that are embedded into systems, taxonomies, and technologies (see Gilliland 2012). This paper situates the museum in a material semiotic perspective to take up some of the challenges posed in the literature to historicize and destabilize knowledge organization, particularly concerning the information records, databases, and catalogs. This paper ties together contemporary perspectives in sciences studies, feminist and postcolonial theory, and information studies. The goals are theoretical: to begin to define the development of a field of thought as scholars continue to question if museum standards of description should change through time, or if taxonomic reparations should be considered part of the reconciliatory work of museums today (Adler 2016, for example). Increased attention to the practical and intellectual issues raised when other knowledges “meet” museums systems is necessary, particularly in the context of changing digital technologies. What set of critical terms and texts aid us in understanding and theorizing the museum as a place of knowledge organization and creation, not only display? In developing this theoretical scaffolding, this paper proposes a set of issues we as scholars and professionals should be attentive to when studying the organization of knowledge in museums.

These questions do not arise in a vacuum and are inspired by an approach to understanding the socio-
technical born out of epistemologies developed in actor-network theory, activity theory, classification studies, media studies, science and technology studies, and feminist and Indigenous approaches to knowledge. Concepts like infrastructure (Edwards et al. 2009), technological affordance (Gibson 1979; Leonardi and Barley 2008; Nagy and Neff 2015), ontology (Almeida Campos and Gomes 2016), and material or media durability (Dourish and Neff 2015). These terms connote the relations created or formalized by technologies, which is a specific philosophical standpoint that takes up calls to recognize and destabilize the infrastructures that sort and differentiate our worlds (Doyle 2013; Adler 2016). These are not inherently bad, of course, and as Mary Douglas (1970) famously argued (and as many others have recognized), classifications, taxonomies, schemes, and formats are necessary for the functioning of distinct systems and collective wholes or even communities. Plotting these socio-technical systems, whether recognized as such or not, is not an easy task and requires speaking with individuals, observing work patterns, understanding the technologies used (cataloging databases for example), and conducting archival research.

Creating any knowledge organization scheme is a formative and world-building exercise, and in the world building of systems, other worlds are put aside. This is not necessarily a problem, in fact, it is necessary for the functioning of the whole, as socio-technical knowledge frameworks (like other knowledge frameworks) are defined by their boundaries. Museum knowledge is no exception. As heterogeneous assemblages (literally and metaphorically), no two are alike. Museums are social institutions. In different contexts, they can provide education, provoke or elicit emotional responses, or cultivate third-spaces or contact zones which can cause visitors to question their relations to the material world around them. They can shed light on historical facts, injustices, pleasures, etc. Yet, all museums and galleries that care for objects rely on pre-existing or pre-defined categories that have shaped a relationship to these objects. The concept of provenance, for example, did not come from “on high,” it arose out of a long-held situated perspective about the nature of objectivity, rationality, and truth (for example, see Bearman and Lytle 1985). Investigating the categorical levels at which we might think through an object, artwork, biological specimen or archaeological artefact is an important and necessary step towards more equitable and ethical approach to knowledge organization broadly (Guimarães et. al. 2016; Littletree and Metoyer 2015).

This paper proposes a small contribution to the field of knowledge organization and museum studies by tying together some threads of thought that have appeared in the literature. I first plot the history of ideas concerning museums and knowledge organization with a focus on the concept of the Foucauldian episteme and how this was taken up by museum scholars like Tony Bennett and Eileen Hooper-Greenhill. Out of this review, I propose a socio-technical framework for understanding knowledge organization in museums, and build upon this by introducing the concept of infrastructure. Third, I raise a series of key terms or issues that are at stake when we think about organizing knowledge in museums: the roles of classification and technological affordance, and the “data” of museum work. Last I raise debates in post-colonial knowledge practices. A major aim of this paper is to point to other work that has done the kind of cataloging histories or taxonomic ontogenies that others have proposed (e.g., Tennis 2002). To what forms can we pay attention when studying the organization of knowledge—particularly in these heterogeneous museum institutions? What set of critical terms and texts aid us in understanding and theorizing the museum as a place of knowledge organization and creation, not only display?

2.0 Historicizing knowledge organization in museums

Museums can be both a field of study and topic of interest and have been studied in a variety of ways, many of which I have covered elsewhere (Turner (2016b, 102):

In one respect, the history of museums is one of colonial collections and engagements with otherness—encounters with cultures, peoples, and objects previously unknown. Historicizing how collections were amassed and how a study of material culture developed and became normalized is important to a holistic understanding of the development of modern ethnographic museums. In another respect, the history of museums is one of documentation, authority, and control.

This posits museums as key sites of knowledge production and circulation and sets the stage for an understanding of the “background” work of museums as an important site for understanding knowledge organization more broadly. Concepts of the socio-technical, largely developed in activity theory and expanded upon by actor-network theory, allow an analysis of museums that pays attention to the sets of standards, classifications, and technologies that structure museum work as well as the practices of individuals and the interpersonal or bureaucratic
negotiations that exist. A significant commitment of socio-technical theory, whether situated in activity theory (AT), actor network theory (ANT), or in science and technology studies (STS) research, is to understand cognition as socio-technical, and that the “social” is mediated not only by objects but by history as well. Inspired by cultural historical activity theory (Engeström 2001; Luria 1976; Vygotsky 1962) and the concept of the Foucauldian episteme (Foucault 1970), this framework considers the situated practices around technologies that influence the organization of knowledge.

2.1 Epistemes and ordering museum knowledge

Catalogs, lists, digitized databases, work practices, recording keeping—these classification tools and practices come to structure our organizations and modes of being, and museums are replete with examples. Much scholarship has sought to understand the connection between museums and organizing the world to understand how and why certain knowledge systems take precedence over others (Barringer and Flynn 1998; Charmantier and Müller-Wille 2014; Daston and Galison 2010; Daston and Park 1998; Hooper-Greenhill 1992; Krajewski 2011; Pratt 1992). This resonates strongly with the concept of the “episteme,” which was developed by Foucault and later applied by Hooper-Greenhill in her historical review of the origins of museum thought. Hooper-Greenhill argued that the origins of the modern museum were made possible by a set of certain epistemic assumptions that developed throughout the nineteenth century (Hooper-Greenhill 1992). The influence of the developments made in the natural sciences, particularly the theory of evolution (Bennett 2004), had a great impact on the study of the past to create the conditions for an “effective history”. Foucauldian epistemes can be read as provocations to understanding a historiography of the museum (Hooper-Greenhill 1992). Certainly, he allows for the possibility of understanding historical context when doing research on museums, and he arguably provides a methodology for doing so.

Hooper-Greenhill (1992), following Foucault, has used the concept of “episteme” to understand issues of historical classification in museums. Hooper-Greenhill, like others, focuses primarily on the ordering of space within the gallery; but her work has significant ramifications for a study of documentation systems. Her argument, that an “enlightenment episteme” made the concepts of collecting and cataloging for modern science the core of the museums’ faculties, is a relevant analysis. She argues that knowledge became a commodity that museums could offer (1992, 4), and that each episteme through time would allow for a certain kind of object to be more desirable for museums. In this sense, and as Tony Bennett (1994; 2004) has argued, classification made it possible to theorize the unseen, to make the invisible visible. It worked to solidify the relationships between the marginalized and powerful. In the modern episteme, proximity on a large classification scale was not seen as enough, and the human sciences developed. The concept of episteme is relevant and many disciplines find their predecessors within Foucauldian thought. Importantly, Hooper-Greenhill argues that the “classical” episteme as identified by Foucault saw museums adopt scientific taxonomies as the rubrics or standards by which all material culture was documented. As she notes (192), knowledge became “a pure tabulated relationship of words and things.” However, as Parry (2007) notes, in the history of the museum in the first half of the twentieth century, museum knowledge was less scientific in its approach to the study of culture. Museum knowledge, or knowing by association and through object study, he argued (51), is akin to knowledge practices in earlier Renaissance contexts, in which it was the curators who ordered and conducted object studies in a highly personalized and contextualized way.

3.0 A socio-technical approach to museum knowledge organization

I argue that contemporary approaches to studying knowledge organization museum settings must consider their material semiotics and infrastructures—terms derived both from information studies but that have deeper histories in social studies of science and anthropology. Claims that
I consider actor network theory (ANT) as an analytic tool rather than a purely theoretical concept (Latour 2005; Law and Hassard 1999), but it is primarily influenced by the work of activity theory, and has since evolved into a robust literature that examines the relations and agencies of socio-technical networks. Research in ANT is largely assumed to be a heterogeneous body of literature. It is most aptly described as a methodology and a sensibility. The concept of material semiotics is a refined version of a much broader set of ANT literatures and was developed through the work of Callon (2005), Latour (1987), Latour and Woolgar (1986), and Law and Hassard (1999). Material semiotics is the mapping of relationships between things and concepts. Studies in material semiotics (Law 2008) pay close attention to the semiotic relations, the heterogeneous actors, and the “stuff” of a network. Latour (2005) has traced the “social” through networks of relationships between objects and people (actors). Together with Woolgar (1986), Latour has shown how certain objects or ways of speaking about things have become naturalized or standard, and then are made immutable and translatable across time and space. Other work has explored how laboratories, hospitals, and other places of work involve networks of human and non-human actors (Latour 2005). Principally influenced by post-structuralist notions of discourse (Foucault 1970), material semiotics grew out of a frustration with notions of how science comes to create claims to truth and draws attention to the material relations that are formed through contact with technologies of documentation and systems of thought (Law and Hassard 1999). Most importantly, studies in material semiotics document not just why networks work, but how.

ANT and material semiotic scholarship have developed several fundamental concepts relevant when studying socio-technical networks and systems. First, ANT theories have addressed the presence or function of non-human actors in complex webs of meaning and intentionality, not unlike earlier activity theory definitions of the mediated activity (Latour 2005; Engestrom 2001), although they are not the first to do so (Todd 2016). Second, within ANT perspectives, all knowledge is understood to be local (Bowker 2008), and knowledge is enacted through everyday practices of socio-technical relationships or assemblages (Law 2008; Mol 2002; Suchman 2007; Harrison, Byrne and Clarke 2013). Third, the concept of the “black box” draws attention to the fact that value systems and politics can be affixed or attributed to material objects and technologies (Latour and Woolgar 1986). Through simplification, actors find themselves in networks whose composition they rarely understand or are aware of, and thus the political and ethical ramifications become subsumed or embedded into the technologies or objects that they use, design, or employ.
4.1 Museums as data producers?

Within any epistemic or socio-technical milieu, different kinds of evidences are brought into relief as a way of organizing and explaining the world. Historians of science have mapped the ways in which facts and data become constructed through complex negotiations of nature, technology, and observers (Daston and Galison 2010; Knorr-Cetina 1981; Poovey 1998). These ideas were first expressed by Fleck (1979) and elaborated upon by Kuhn (1996), who described a paradigm as thought patterns and standards that identify what counts as a legitimate contribution to knowledge in a field. Scholarship since has sought to dismantle the Kuhnian deterministic paradigmatic approach, and much of this work has been positioned as social constructivist science (Hacking 2000; Harding 1991). Recent work has addressed how museums acted as scientific laboratories (Bennett 2005), and this calls the museum as a producer of scientific knowledge into question.

Many scholars have been influential in crafting ideas of how science is practiced and how scientific objects come into being, both in a historical and contemporary sense (Latour and Woolgar 1986; Knorr-Cetina 1981; Lemov 2011; Mol 2002; Law 2012). Of relevance is the work of Daston (2000, 3), who examined the historical practices of the physical sciences. Daston posited that scientific objects “can be simultaneously real and historical” and assumed that reality is “a matter of degree” but that phenomena become more real as they are “woven into scientific thought and practice” (1). Daston’s call for an applied metaphysics requires that serious attention be paid to specific practices that enable objects or information to come to have meaning. Monstushi’s description and expansion of this idea (2007, 4) reflects the notion that scientific objects are indeed different from regular objects, they may or may not be “quotidian” things but are “elusive and hard-won.” The material objects in museum collections exist at a middle ground. They are indeed quotidian objects, yet remain politically important.

Building on the scholarship of both Foucault and the material semiotic approaches to understanding socio-technical systems, Daston and her colleague Galison (2010) expanded the notion of how scientific objectivity came to be accepted as a form of evidence and pedagogy in the physical sciences. They conceptualized that objectivity as a value and a method in the natural sciences is itself historically located, and their work is relevant for histories of scientific observation (within which anthropology is deeply embedded). Daston and Galison reconsidered what empirical, observable reality is and how it came to be practiced in the sciences of the nineteenth century. In sum, many scholars now agree that concepts and categories such as facts and data and objects are localized and temporal, and that alternative overlapping worlds of knowledge organize the world in radically different ways (Bowker 2005; Daston 2012; Harding 1991; Fujimura and Luce 1998; Ribes and Bowker 2009). The study of the creation or stabilization of knowledge through looking at infrastructures such as standards, categories, and data arrangements can potentially explain how it is that multiple worlds become subsumed into one through normative practice.

5.0 Infrastructure: a key concept of museum knowledge organization?

The concept of information infrastructure predominately originates from work in studies of science and organization (Bowker et al. 2010; Edwards et al. 2009; Jackson et. al. 2007; Star and Ruhleder 1996). I have begun to theorize the relationship between infrastructure and knowledge organization (Turner 2016a, 164), describing how it is “often used to address the large-scale yet often inconspicuous material networks that structure our world, such as roads and Internet cables.” The origins were better plotted in Bowker and Star’s seminal volume, Sorting Things Out (1999), where they elaborated on the concept of infrastructure to show how it is fundamentally linked to questions of power. They argued that classification systems and standards were integral to any working infrastructure (16). Infrastructures are frequently invisible, but are “highly politically and ethically charged” (147) and are a kind of work that goes unnoticed and naturalized. They only become visible when an infrastructural inversion occurs, which is when the normalized system comes to the foreground in a kind of gestalt switch. As they articulated (34), this is done by “looking closely at technologies and arrangements that, by design and by habit, tend to fade into the woodwork.” The consequences of existing and invisible information infrastructures are that the latent meanings behind the information schemes go unnoticed yet remain politically important.

Mai (2004, 42) reminds us that “the determination of categories in classification is related to the historical, social, and cultural context in which the classification system is created and used.” Latour’s classic example of black-boxed technologies examines the practical politics of a “door-closer” in the context of a work environment. In this analysis, owing to the technological affordances of the walls, doors are a necessity, and so are the door-closers that keep them in place (Latour 1987). Through a series of mediated technologies, the door remains shut, and these technologies often go unnoticed to those who pass through these doors regularly. The underlying machinery in tech-
nology only becomes visible when something does not work, or the normally functioning whole ceases to do so (Star 1992). It is only in the breakdown of the system where the mechanism, in this case, the door closer, becomes visible and able to be articulated. This is known as an infrastructural inversion; it is in the breakdown of the system that true interconnectedness is visible. To perform an infrastructural inversion, one must forcibly “break the door closer” to examine the mechanisms of socio-technical systems that we are often unaware of.

Recent work has raised the question of whether knowledge organization schemes function as information infrastructures or knowledge infrastructures in libraries (Doyle 2013, 110) and museums (Beltrame 2012b; Beltrame and Jungen 2013; Turner 2016a). Doyle has focused on the educational components of library information organization, such as the distinction between hidden curriculum and official knowledges. She acknowledges that knowledge organization schemes, the standards and naming conventions in library classification, function as invisible but pervasive infrastructures. She argues that there are larger, underlying constraints that shape the system of knowledge in a library setting. Doyle has commented (113) on Bowker and Star's notion of infrastructure, arguing that it has changed the notion of classification “from a predominantly decontextualized and cognitive model to one that recognizes the situated, collective and historically contingent nature of classification systems anchored in social practice and politics.”

Classificatory schemes and modes of organizing knowledge make up part of working information infrastructures, and Bowker and Star (2000, 147) read the explosion in classificatory principles in the late nineteenth century as both political forces and “organizing rubrics for complex bureaucracies.” Understanding classification systems and categories is important for understanding the infrastructure of museum information management and knowledge production, particularly in the context of ubiquitous attempts at digitization across all public institutions. Likewise, Lampland and Star have argued (2009) that information infrastructures rely heavily on standards, that is, classification schemes and standardized documentation practices that are part of everyday practice. Some of these are formal, some of them are not. While formalized standards are present in museums in the form of digital standards for information sharing, such as file names, for the most part, many museums rely on a set of informal standards to conduct cataloging practice and have done so throughout their histories. These informal standards take the form of continually updated controlled vocabularies, ad hoc naming conventions, lookup lists, and inventory control terms.

5.1 Classifying, cataloging, standardizing

Tennis has recently argued (2015, 245-6) that there are several different metatheoretical approaches to understanding classification theory. First order classification theory, for example, examines how classification schemes are constructed and used, where second order is concerned with how schemes change over time and how they interoperate and how they change depending on context. Foundational classification theory is what I am concerned with here; that is, attention is paid to the process and the philosophical and definitional aspects of classification (246). In museums, classification schemes are everywhere, and they are historical. Often, words, phrases, and ordering languages and even concepts like provenance and donor come from pre-existing ideas about what an object is and how it should be preserved, often situated in nineteenth century ideals about objectivity and value (as explored above).

Much of the study and critique of classification schemes and naming standards (Turner 2007; Lee 2011; Doyle 2013; Lampland and Star 2009; Olson 1993; Olson and Ward 1997) has been directed at standard or formal classification schemes used in libraries and in medical classification literature, for example (Bowker and Star 1999; Mol 2002). To organize and describe the object of study in the library, such as the book, article, or multimedia object, librarians rely on a variety of descriptive standards that are suggested by federal and international regulating bodies. Similarly, archives rely on international standards of arrangement and description. Museums, however, are unique among other cultural institutions, as their systems of organization consist of some formal or standardized methods, but generally rely on ad hoc systems of cataloging that are specific to each individual institution. Furthermore, the naming and organization practices have varied through time and vary significantly between institutions. This is, in part, because cataloging the plethora and variety of materials in museums, from artworks to natural history to paleo-biological species, in one classification system would be impossible. Museums are defined by the objects they hold, and naming strategies in an art museum will differ fundamentally from those in a science museum. Even within one museum, each department will rely on distinct classifications and standards; for example, biological specimens are cataloged according to standards monitored by a variety of scientific councils. Furthermore, in the library setting, when using the Dewey Decimal Classification, for example, two copies of the same book are classified identically, but it is currently understood that each object in a museum has a unique and specific history that ultimately shapes the final record individually.
Museum catalogs make use of a variety of standard practices, nomenclatures, and classifications that are seen as industry standards and are adopted de facto by many museums internationally. Despite the existence of several standards developed through the International Organization for Standardization (ISO), each museum has its own specific method of cataloging objects, which relies on a variety of different practices. These shift historically and are often aligned with previous practice in the institution. However, there are a variety of standards that are designed to aid museum workers in using unified object terminologies and object classifications. Further, specific software often relies on built-in nomenclature standards. For example, the Museum System (a popular collections management software), includes the Getty Research Institute's Art & Architecture Thesaurus (AAT) and Thesaurus of Geographic Names (TGN). KeEMu integrates the Spectrum Architecture Thesaurus.

5.2 Technological affordance

As socio-technical studies in classification show, there is a dual and reciprocal relationship between the technologies of knowledge organization and the individuals who are responsible for completing these tasks. The ideas that technologies have particular physical qualities is not new. However, there has in recent years been a focus on addressing or escaping the “problems” with a kind of simple social-constructionism. As Nagy and Neff have recently argued (2015, 3): “affordance is based on a contradiction that it presumes, but does not confront, about the distinction between matter and mind, materiality and discourse.” As a general concept, affordances and constraints define the material bounds of the object or technology, where the technology in conjunction with a user allows for a specific engagement. Affordances do not necessarily prescribe this engagement, but rather they are the loose bounds wherein which human action can shape or change the outcome. Much of this thinking arose from design theory; namely the work of Gibson (1979) and Norman ([1988] 1990, 1999) and has since shifted to the domain of sociology, information and science studies. For Gibson, as Hutchby (2001) explains, the concept of affordance can reconcile constructivism and realism, where technologies are not seen to have what he calls “essential technical” properties (Hutchby 2001) but affordances. They have the (444) “functional and relational aspects that frame, while not determining the possibilities for agentic action in relation to an object.” Seen in the context of work in materiality (or the renewed Western interest in object-human relations), affordances (Nagy and Naff 2015, 4) “can and should be defined to include properties of technologies that are ‘imagined’ by users, by their fears, their expectations and their uses, as well as by those of the designers.” While Nagy and Naff are interested in defining the term affordance, they also complicate its use, attending to the “latent, assumed, false, hidden, masked, and blackboxes much of socio-technical systems,” and that these theories have often overlooked our effectual and emotional aspects of engagement of technologies. These issues are not necessarily new or a product of computing environments, and there have been many initiatives that have worked to remedy this aspect of organizing knowledge in the context of past practice or legacy data. Hine (2005; 2006, 271) following other historians of science such as Galison (1997) and Le-Noir (1998), has argued that technologies like digital databases do not ipso facto change scientific practice; but that they raise key issues that were always at stake like frameworks for evaluation and work practices and bring to light the uncomfortable practices of the past. Strasser (2012, 311), a historian of science, has also argued that natural history collections always included data (drawings, notes,
associated information) and that scientists have been organizing data just as they have physical collections for some time.

What does this mean for museum knowledge organization? It means that when working with a catalog system, or defining a new terminology, many museum staff will know or feel what Bowker and Star have called (1999, 117) “the inescapable inertia of terms or categories already in use.” That the affordances of the technical systems, whether these be catalog cards, ledger books, digital databases, or even the broader bureaucracy, shape in some part the use and engagement with these systems. As I have noted elsewhere when individuals work in museum knowledge organization systems, they are inevitably struggling with the legacies of past practice and the technological systems they use. Technologies and their “affordances” set the conditions of possibility with which to engage in the work: be it cataloging, exhibition planning, or even hiring. What have come to be seen as mundane work practices in museums are highly mediated, important activities. In this way, affordances are also performative (Leonardi 2011, 148).

6.0 Postcolonial, feminist, Indigenous knowledge organization

It is incredibly important to understand feminist and Indigenous scholarship when it comes to studying museum knowledge organization, particularly when museum collections still hold a significant about of objects collected from Indigenous communities around the world. It is also important to consider the significant contributions of scholars whose work has perhaps fallen outside of traditional academic cores. Intellectual colonialism is a significant effect of many knowledge organization fields, and has been recently and fruitfully addressed (Cherry and Mukunda 2015; Duarte and Belarde-Lewis 2015; Lougheed et. al., 2015; Whaanga et. al., 2015).

Indigenous scholars have been actively crafting the theories of decolonization and marginalization for some time and have critiqued (Smith 1999, 19) the fact that “imperialism frames the Indigenous experience.” Much of this critique has been in part inspired by earlier work in feminist theory, standpoint theory, and critical race studies (Harding 2002; Wylie 2003). Feminist theory and methodologies have been foundational in calling attention to the subaltern, peripheral narratives and inequality generally (Haraway 1988; 1994). Standpoint theory aims to disrupt the normative by making one aware and conscious that norms exist, with the hope that in doing so, non-normative possibilities can coexist (Harding 2002). This can be characterized as an outcome of feminist and post-colonial science studies that seek to articulate the vantage point of the oppressed. More broadly, however, Harding suggests that it is an attempt to take conventional social relations and practices as problematic (2002, 50). Standpoint theories assume, as Ann Doyle has argued, “an inseparability of power and knowledge” which has been a central theme to other work in the history of science, specifically with Foucault (Doyle 2013).

Indigenous knowledges are often seen to exist as “opposed” to Eurocentric and scientific knowledges. One critique of this dichotomy is that of Indigenous métissage, put forward by Donald (2009, 2012) but elaborated upon by Doyle (2013). Métissage can be defined (Donald 2012, 535) as a conceptual trope and practical tool, whose central tenets involve an “ethical relationality” that “does not deny difference, but rather seeks to understand more deeply how our different histories and experiences position us in relation to each other.” Further, as Donald argues, métissage can be used to defy or resist the priority and authority given to official texts (2009, 537). In my own work, métissage has been a way forward when thinking through the ethical outcomes of organizing both collections and the information about them.

In a recent article, feminist Indigenous scholar Todd (2016, 8) critiqued the academy’s preoccupation with using and Indigenous concepts without recognition, particularly in the realm of anthropology and science studies. Regarding a lecture by Latour on climate change in the anthropocene, she argues:

The ones we credited for these incredible insights into the “more-than-human,” sentence and agency, and the ways through which to imagine our “common cosmopolitical concerns” were not the people who built and maintain the knowledge systems that European and North American anthropologists and philosophers have been studying for well over a hundred years, and predating many of their current “aha” ontological moments (or re-imaginings of the discipline) upon … But the structures that produce talks like the one I attended make it easy for those within the Euro-Western academy to advance and consume arguments that parallel discourses in Indigenous contexts without explicitly nodding to Indigenous intellectual and political players. Because we still practice our disciplines in ways that erase Indigenous bodies within our lecture halls in Europe, we unconsciously avoid engaging with contemporary Indigenous scholars and thinkers while we engage instead with eighty year old ethnographic texts or two hundred year old philosophical tomes.

Todd’s critique cannot be understated, and is critical if we are to continue our paths as academics who “do” intellectual history. In the history that I have been crafting con-
cerning knowledge organization in museums, many of the theoretical paradigms, ideas, and terms come out of a male and western-centric intellectual history. Demonstrating Indigenous roots to these ideas, particularly of the socio-material, is necessary if we are to move forward from previous physical and intellectual colonialism across all spheres. Why is this important for museum knowledge organization? As Olson (2002) noted, our power to name is a means of structuring reality, and we must begin treating users as non-homogenous. There have been decades of work from Indigenous, postcolonial perspectives that take this into account and into the heart of their work, too many to name here. When thinking through the philosophical and pragmatic issues at stake concerning museums and organizing knowledge, we find crucial contributions from these philosophies that deserve full recognition (Parent 2015). Two key issues have come to the fore.

First, the idea that Indigenous and feminist philosophies may better account for (or at least have been and can be a foundation for thinking about) how knowledge operates more broadly and this must be taken up by non-Indigenous scholars in a serious way (Holfbraed et al. 2014; Hunt 2014); and secondly, that the decolonization or the redress of knowledge organization schemes is now urgently required for reconciliation (Truth Reconciliation Commission of Canada 2015). This comes at a risk, as Todd (2015, 9), following Watts, acknowledges:

There is a very real risk to Indigenous thinking being used by non-Indigenous scholars who apply it to Actor Network Theory, cosmopolitics, ontological and posthumanist threads without contending with the embodied expressions of stories, laws, and songs as bound with Indigenous-Place Thought (Watts 2013: 31) or Indigenous self-determination.

Following Sundberg (2014) and Watts (2013), Todd urges non-Indigenous scholars to account for location and Indigenous place-thought. As a non-Indigenous settler academic, I hope that this work does reinforce this exact anxiety, but instead, in a small way, provides some context about why a discussion such as this must be relevant for museum knowledge organization. As museums that hold Indigenous cultural property but also natural historical specimens, art, and biological materials, these issues are certainly paramount. Collections have been framed in a way that separates the natural world from the human-made, and this reinforces a disconnect between memory, people, and the land. There are also important examples of projects and museums that are seeking to reframe this in the context of standard museum practice and organization. These range from providing links to existing museum content and organizing objects from different perspectives digitally, to making the case for different systems of classification altogether, and by providing object based language resources. One notable example is the recent Digital Sq’ewlets project (digitalsqewlets.ca) that re-frames archaeological objects as belongings or Akwes’, and categorizes them according to activities important to the Stó:lō people of the Fraser River Valley in British Columbia, Canada (Lyons et al. 2016). Another example of a projects that connect objects to communities through digital networks include the Reciprocal Research Network (rrncommunity.org) (Rowley 2013), and there are many others that seek to improve Indigenous access to library and archival materials by re-organizing collections according to Indigenous knowledge organization (Christen 2008; Lee 2011; LittleTree and Metoyer 2015; Swanson 2015; Whaanga et al 2015, Willmott et al. 2016, for example).

Understanding how Eurocentrism is constructed and made to last in knowledge organizing institutions like museums is seen through the lens of post-colonial decolonization theory, but is only part of a larger struggle attended to by Indigenous peoples themselves in a variety of ways: acts of resistance through filmmaking, performance art, journalism, repatriation, and other academic disciplines. Todd’s critique centres on the academy as a white public space; where Indigenous or non-white voices are continually erased and obfuscated. When thinking about classification, categorization, nomenclatures, naming, and organizing, attention should be turned to these issues, despite that they are not (unfortunately) new, but deep seated, historical, and ever-present. Indeed, much work is already underway to challenge western centric classification schemes across locations (Bardenheier, Wilkinson, and Dale 2015, for example). Concepts like the métisage draw attention to the points at which Indigenous peoples’ histories meet with, in this case, museums’ forms of authoritative control.

7.0 Conclusion

The goal of this paper has been to situate the study of museum knowledge organization in a body and a history of theory and approaches, often seen as disparate or disconnected. Many omissions are likely present, but the intention was to present to scholars and non-academics a variety of issues that can, and should consider when thinking about these systems. For example, little was written about the history of museum data management, and there is a long trajectory of working through knowledge organization systems in museums. For example, there are many examples of shared data or linked open data initiatives (see Isaac and Haslhofer 2013). Of course, the specificities of each individual museum knowledge organization differ, and each different collections management system makes use of different standards and termi-
nologies as each museum deals with different collections. The purpose was to draw together some of the key themes and terminologies employed to act as a wayfinding device when it comes to thinking about museums as bureaucratic institutions in the context of history: as socio-technical infrastructures, classificatory ordering devices, data producers, and communities of individuals. The idea that our technologies afford us the conditions of possibility for future relations is one way to understand the socio-technical aspect of museum knowledge work, and it is a key term that deserves more philosophical work. I also hope to have raised some questions for future scholarship and critical thought. In defining the field of museum knowledge organization, what can we learn from work with the “data” of museums, the cataloging systems and organization models developed in earlier decades? What is the legacy of this data? Do we need more locally appropriate classification schemes or more universal standards? What are the intellectual merits and limits of both?

References


