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# UNESCO, URI, and Archaeology in the Deep Blue Sea: Archaeological Ethics and Archaeological Oceanography

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**UNESCO, URI, and Archaeology in the Deep Blue Sea:  
Archaeological Ethics and Archaeological Oceanography**

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22 **Abstract**  
23

24 Multiple groups have interests that intersect within the new field of deep submergence (beyond  
25 the 50 meter range of SCUBA) archaeology. These groups' differing priorities present  
26 challenges for interdisciplinary collaboration, particularly as there are no established guidelines  
27 for best practices in such scenarios. Associating the term 'archaeology' with projects directed at  
28 underwater cultural heritage that are not guided by archaeologists poses a real risk to that heritage.  
29 Recognizing that the relevant professional organizations, local laws, and conventions currently  
30 have little ability to protect pieces of cultural heritage across disciplines and international  
31 boundaries, the authors propose institution-specific mechanisms, called Archaeology Review  
32 Boards (ARBs), guided by local and international laws and conventions concerning cultural  
33 heritage, as the best means to provide oversight for academically centered archaeological  
34 activities at the local level.  
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52 **Keywords**  
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54 Archaeology. Ethics. 2001 UNESCO convention. Underwater cultural heritage  
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## Exploration of the deep

We are fortunate to live in an age when scientific and technological innovation has resulted in the creation of a variety of vehicles (both human driven and remotely operated) that have extended our reach into the deepest waters. As a result, there have already been a number of situations, both intentional and unintentional, where using these vehicles has resulted in the discovery of underwater cultural heritage, and some oceanographic expeditions are indeed now setting out with the precise purpose of discovering shipwrecks, underwritten by federal funding for ocean exploration.<sup>1</sup> The creators and operators of these craft are ocean scientists and engineers located in industry and in the oceanographic research community, and in addition to developing the vehicles used for deep-water survey and exploration, they generally subsidize deep-water archaeological work substantially or exclusively through their own financial means. In fact, one of the highest premiums is on space on research vessels. Costs average \$30,000-40,000 per day for the use of an appropriately equipped oceanographic research vessel, which is well beyond the financial capabilities of most professional archaeologists (Ballard 2008); in the commercial realm the cost of a work-class ROV vessel and its crew begins at \$50,000 per day

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<sup>1</sup> A few recent examples of these partnerships include the National Oceanographic Partnership Program 2010 study of the mid Atlantic <http://www.nopp.org/2010/nopp-sponsors-deep-water-hard-bottom-habitat-study/> (accessed December 21, 2011); Robert Ballard's 1997 exploration of the Black Sea for the purpose of finding ancient dwellings inundated when this freshwater body was flooded by rising sea levels approximately 7150 years ago. <http://www.geo.edu.ro/sgr/mod/downloads/PDF/Ballard-MarGeo-2000-170-253.pdf> (accessed December 21, 2011); NOAA's 2008 mission to discover historic shipwrecks off Turks and Caicos islands <http://www.research.noaa.gov/spotlite/> (accessed December 21, 2011); the PHAEDRA project, 2006 <http://oceanexplorer.noaa.gov/explorations/06greece/background/archaeology/archaeology.html> (accessed December 21, 2011); and the many projects of the Wood's Hole Oceanographic Institute, including <http://oceanexplorer.noaa.gov/explorations/06greece/background/archaeology/archaeology.html> (accessed December 21, 2011).

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4 (Søreide 2011); in some cases, depending on the complexity of the job, commercial boats with  
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6  
7 work class ROVs can average up to \$250,000 per day.  
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10 Some other groups interested in deep-sea industry, such as the oil and gas sector, now adhere to  
11  
12 federally mandated protocols under The Bureau of Ocean Energy Management (BOEM) whose  
13  
14 jurisdiction covers all federal submerged lands, including the continental shelf, slope, and basin  
15  
16 up to 200 nautical miles.<sup>2</sup> Businesses engaged in deep-water activities are required, under certain  
17  
18 conditions, to employ archaeologists and adhere to BOEM's guidelines where cultural heritage is  
19  
20 concerned. In these commercial contexts, work cannot proceed without the guidance of a  
21  
22 professionally qualified archaeologist. This expert contributes to the expedition planning process  
23  
24 from the beginning, and must be physically present to direct, observe, and report on all diving  
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26 investigations. BOEM provides oversight of this process as the reviewing agency for all results  
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28 produced, and has published guidelines establishing everything from the correct format of  
29  
30 archaeological reports to the recommended height for towing sides-can sonar fish in a variety of  
31  
32 survey scenarios.<sup>3</sup> The regulatory environment for the U.S. oil and gas industry with respect to  
33  
34 archaeological heritage is still evolving, but since 1966 the Minerals Management Service has  
35  
36 been responsible for protecting archaeological resources on the Outer Continental Shelf, and  
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38 industry has proven itself as a genuine stakeholder in the preservation of deep-sea cultural  
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40 heritage. The existence of positive legal requirements has even resulted in partnerships between  
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42 the industry and professional archaeologists. Excavations such as the *Mardi Gras* (Ford 2010)  
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55 <sup>2</sup> <http://www.boem.gov/Regulations/BOEM-Governing-Statutes.aspx> (accessed March 27,  
56 2012).

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58 <sup>3</sup> <http://www.boem.gov/Regulations/Notices-To-Lesseees/2005/05-G07.aspx>; see also the survey  
59 guidelines in [http://www.gomr.boemre.gov/homepg/regulate/regs/ntls/2005%20NTLs/NTL2005-](http://www.gomr.boemre.gov/homepg/regulate/regs/ntls/2005%20NTLs/NTL2005-G07.pdf)  
60 [G07.pdf](http://www.gomr.boemre.gov/homepg/regulate/regs/ntls/2005%20NTLs/NTL2005-G07.pdf) (accessed March 27, 2012).  
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4 show the potential for research collaboration beyond the basic commercial relationships that  
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6 already exist between the oil and gas industry and the CRM archaeological community.  
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10 However, in this new age of deep-water exploration outside of the jurisdiction of organizations  
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12 such as BOEM, the legal waters are still mostly uncharted (O'Keefe 1999). As a result, academic  
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14 institutions are lagging behind management agencies such as BOEM in establishing guidelines  
15  
16 for deep-water research activities that impact cultural heritage, especially when the research  
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18 takes place outside U.S. jurisdiction. In the absence of effective legal safeguards or even well  
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20 established models for best practices in many parts of the globe, a university-sponsored research  
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22 expedition that is either partly or entirely 'archaeological' in purpose (for example, finding  
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24 shipwrecks) can proceed without the same level of archaeological oversight that would be  
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26 mandated on an equivalent terrestrial project. In addition to the questions of oversight, such an  
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28 expedition can easily operate without awareness or respect for archaeological procedures or  
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30 priorities, or understanding of current international or local agreements on the proper care of  
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32 underwater cultural heritage. In the United States, there is currently nothing that parallels the  
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34 BOEM regulations concerning the appropriate behavior of U.S.-based ocean scientists  
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36 conducting deep-water survey in areas of high archaeological potential, and the United Nations  
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38 Convention on the Law of the Sea (UNCLOS) and other applicable international laws do little to  
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40 clarify the situation.  
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50 What then of more informal standards and regulations, of the kind established through long  
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52 practice and publication within the terrestrial archaeological community? Following in the  
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54 footsteps of other field changing texts, such as *Maritime Archaeology* (Muckelroy 1978) and  
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56 *Shipwreck Anthropology* (Gould 1983), the most comprehensive statement outlining an  
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58 oceanographic view of the nature, potential, and appropriate practices of deep submergence  
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4 archaeology from the perspective of the United States is *Archaeological Oceanography* (Ballard  
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7 2008), which showcases the achievements of twenty years of Institute for Exploration (IFE)  
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9 expeditions.<sup>4</sup> This vision for deep-water archaeology captures the sense of almost unlimited  
10  
11 potential for discovery that the deep oceans represent. The technology of deep-sea exploration is  
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13 indeed awe-inspiring to the outsider, and the pioneering and innovative spirit that inspired the  
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15 first major American deep submergence archaeology (DSA) projects deserves admiration.  
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20 Despite the introduction of this new archaeological-oceanographic platform, it appears that no  
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22 one has yet stepped forward to ask the difficult but necessary questions this new disciplinary and  
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24 operational paradigm raises from the perspective of archaeologists. At the same time, from the  
25  
26 oceanographic perspective, there is a very real concern that the archaeological community cannot  
27  
28 understand the needs and perspective of oceanography as an academic discipline.  
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32 Communication and understanding are at the key issues here, complicated by the fact that both  
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34 oceanographers and archaeologists employ research terms (such as 'survey' or 'sample') that have  
35  
36 subtle but sometimes profoundly different implications within each discipline. That is why it is  
37  
38 not enough for archaeologists and oceanographers to simply hope for the best. There must be  
39  
40 mechanisms for ongoing dialogue and oversight. The stakes are high: if archaeologists and  
41  
42 oceanographers cannot learn to collaborate effectively within an agreed framework of guidelines  
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44 and responsibilities for the advancement of human knowledge, commercial treasure hunters will  
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46 move in to fill the vacuum, assuming technological and popular leadership in the field of deep  
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56 <sup>4</sup> Although partnerships between archaeologists and ocean scientists vary from country to  
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58 country, the authors of this paper contend that the issues raised here, from the perspective of the  
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60 United States, do carry over to these other locales. The universal nature of this problem is, in  
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62 fact, one reason that the proposed ARB (see below) has as one of its charges the evaluation of  
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64 extra-URI projects for credit toward a URI degree.  
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4 sea archaeological survey and excavation. Indeed, judging by popular television and news  
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6 coverage of these groups, one could argue that the treasure hunters already hold this position.  
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### 10 **Where are the archaeologists?**

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12 As deep-water exploration that impacts evidence of past human culture and activity is going to  
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14 continue, and as water covers approximately 70% of the earth's surface, it is fair to ask what role  
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16 archaeologists will actually play in the field. This is especially important, as archaeologists are  
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18 not able to simply go to many sites: the 'field' is increasingly a place that can only be reached  
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20 using the most sophisticated and expensive equipment. In the race for archaeological  
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22 information, the owners and operators of this equipment are far ahead of the archaeological  
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24 community in the development of tools and strategies to locate and excavate deep-water  
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26 shipwrecks (Wachsmann 2011). Since the objectives of for-profit salvage operations are, for the  
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28 most part, in conflict with those of professional archaeologists, professional archaeologists have  
29  
30 determined that colleagues in the marine sciences would be the logical partners and allies for  
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32 DSA. But the difficulty in this partnership is setting our appropriate ground rules so that  
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34 oceanographers and archaeologists do not need to feel that their tools and expertise are  
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36 essentially being subordinated to the research goals of their partners' discipline.  
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40 Here, *Archaeological Oceanography's* answer seems a very appropriate one. To quote from the  
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42 introduction: "The term 'archaeological oceanography' sounds like the former is subordinated to  
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44 the latter but this is not the case. A geological oceanographer is a geologist working in the ocean.  
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46 An archaeological oceanographer is an archaeologist working in the ocean as well." (Ballard  
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48 2008, x). This begs the question of whether the term 'oceanography' is needed at all to describe  
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50 practitioners of this new sub-discipline, when archaeologists regularly collaborate with scientists  
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52 in other realms without needing to redefine themselves or their activities. Indeed, Søreide has  
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4 observed that "in reality there are no oceanographic archaeologists... there is archaeology that  
5 occurs in deep water but it is simply archaeology" (Søreide 2011, 7). The question here revolves  
6 around what it means to be an archaeologist.  
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11 That said, *Archaeological Oceanography's* definition of itself would seem to align perfectly with  
12 the recently-ratified UNESCO 2001 Convention on the Protection of the Underwater Cultural  
13 Heritage (CPUCH), Annex rule 22: "Activities directed at underwater cultural heritage shall only  
14 be undertaken under the direction and control of, and in the regular presence of, a qualified  
15 underwater archaeologist."<sup>5</sup> Although several important maritime nations, including the United  
16 States of America, have not signed the CPUCH, many archaeological groups and research  
17 institutions have formally or informally endorsed its core principles.<sup>6</sup> In fact, one of the  
18 significant differences between CPUCH and its annex is: "The Convention represents a  
19 compromise text, as any multilateral treaty, between various views and perspectives. However,  
20 the annex of the Convention was a unanimously adopted text. Its technical rather than legal  
21 (and/or political) nature helped in achieving such a result (remarkable in a genuinely multilateral  
22 negotiation)." (Carducci 2005, 1) This unanimous support in committee has been reflected in the  
23 reception to the two documents in the larger world. While a number of countries (for a variety of  
24 reasons) are reluctant to sign CPUCH, many governments and groups worldwide look to the  
25 annex for support. An example of this spreading wave of archaeological agreement on the annex  
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51 <sup>5</sup> For the text of the 2001 UNESCO Convention on the Protection of the Underwater Cultural  
52 Heritage, see: [www.unesco.org/new/en/unesco/themes/underwater-cultural-heritage/the-2001-](http://www.unesco.org/new/en/unesco/themes/underwater-cultural-heritage/the-2001-convention/)  
53 [convention/](http://www.unesco.org/new/en/unesco/themes/underwater-cultural-heritage/the-2001-convention/). A closely related document, and inspiration for many of the provisions in the  
54 CPUCH annex, is the ICOMOS Charter on the Protection and Management of Underwater  
55 Cultural Heritage: [www.international.icomos.org/under\\_e.htm](http://www.international.icomos.org/under_e.htm) (accessed December 21, 2011).

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57 <sup>6</sup> See for example the website of the Advisory Council for Underwater Archaeology  
58 (<http://www.acuaonline.org>), which contains links to the CPUCH and ICOMOS documents, and  
59 summarizes the objectives of the CPUCH as part of the official ACUA underwater archaeology  
60 ethics press kit.  
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4 was a two-part international workshop and conference on this topic, which resulted in a report  
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6 (Greene 2010) and a statement of guidelines for best practices, based on the annex and endorsed  
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8 by a group of archaeologists working in maritime contexts. Other groups and institutions in the  
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10 United States, such as the Institute of Nautical Archaeology,<sup>7</sup> the American Institute for  
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12 Conservation of Historic and Artistic Works,<sup>8</sup> the Archaeological Institute of America,<sup>9</sup> and the  
13  
14 University of Rhode Island Archaeology Group,<sup>10</sup> have adopted the annex's guidelines as well.  
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16 Among the safeguards archaeologists take for granted with terrestrial sites (or underwater sites  
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18 within the state waters of a sovereign nation, or in areas designated as significant in federally  
19  
20 controlled waters) is the requirement that there be archaeological oversight of projects that have  
21  
22 the potential to discover or disrupt UCH.<sup>11</sup> As a part of this process, the archaeologist's  
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24 qualifications, experience, and research plan is reviewed before the survey or excavation is  
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26 approved, and a suitably trained archaeologist provides oversight. In the case of projects  
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28 undertaken by the oil and gas industries, although the government does not send its own  
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30 archaeologists on each survey, any archaeologist (Principle Investigator) that is contracted to  
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32 oversee these projects has to meet the U.S. Secretary of the Interior's requirements for a  
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34 professional marine archaeologist and prepare a report that is sent to the BOEM archaeologists  
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36 for review. As deep submergence research activities often occur in international waters,  
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38 archaeologists are concerned that there is no outside authority forcing the project leaders to  
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50 <sup>7</sup> [http://inadiscover.com/about/ocomos\\_charter](http://inadiscover.com/about/ocomos_charter) (accessed December 21, 2011).

51 <sup>8</sup> <http://www.conservators-converse.org/2011/08/aic-releases-statement-on-the-10th-anniversary-of-the-adoption-of-the-unesco-convention-on-the-protection-of-the-underwater-cultural-heritage/>  
52 (accessed December 21, 2011).

53 <sup>9</sup> <http://www.archaeological.org/news/advocacy/93> (accessed December 21, 2011).

54 <sup>10</sup> <http://www.uri.edu/archaeology/> (accessed December 21, 2011).

55 <sup>11</sup> This significance requirement is being reassessed by governmental agencies (such as BOEM)  
56 as not providing enough protection to areas that have no such designation. See below for more  
57 on BOEM's past and current practices on this issue.  
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4 explain their goals or document their findings in an academically approved fashion. In fact, U.S.  
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6 projects designed for the discovery of UCH in deep-water (projects that would clearly be  
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8 considered archaeological in terrestrial contexts or in territorial waters) have already occurred  
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10 without adequate provision for archaeological oversight or appropriate support for the study and  
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12 publication of the project results. As there are no agreed upon guidelines for oversight of UCH  
13  
14 related projects outside of U.S. jurisdiction, there is no real means for major funding agencies, or  
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16 other non-archaeological groups, to conduct an effective review process for such projects. It does  
17  
18 not help archaeologists' case that they have, as a field, allowed themselves to be perceived  
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20 inaccurately in the media (somewhere between *Indiana Jones* and a beachcomber with a metal  
21  
22 detector), which has led the public to assume that the role of the archaeologist is essentially to  
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24 'find' things, and therefore to assume that anyone who is good a finding things should be  
25  
26 identified as an archaeologist, or at least empowered to act as one. Recent television shows,  
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28 including Spike TV's *American Digger* and National Geographic Channel's *Diggers*, which  
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30 glorify the recovery and sale of artifacts, solidify the public's perception that archaeology and  
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32 treasure hunting are one and the same.<sup>12</sup>  
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41 The answer to the question "where are the archaeologists?" on an expedition directed at the  
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43 discovery or disturbance of underwater cultural heritage should never be ambiguous. By  
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45 unanimous agreement of the international archaeological community, and in line with best  
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47 practices in terrestrial archaeology, a suitably qualified archaeologist must be fully involved and  
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49 physically present for all activities that impact cultural heritage.  
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56 <sup>12</sup> Articles such as one by the Museum of Underwater Archaeology's Ben Ford highlight this  
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58 problem specifically for underwater archaeologists:  
59 [http://www.uri.edu/artsci/his/mua/project\\_journals/bf/bf\\_6-13.shtml](http://www.uri.edu/artsci/his/mua/project_journals/bf/bf_6-13.shtml) (accessed march 27,  
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61 2012).  
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#### When is archaeology not archaeology?

A possible response to arguments calling for archaeologists to be more involved in expedition planning and to be present on research vessels to provide oversight might be to claim that not all deep sea survey is directed towards the recovery of underwater cultural heritage. If a deep-sea voyage is planned solely for the purpose of exploration, and if these voyages are aimed at discovering (but not excavating) UCH, they might argue, that titles aside, these projects are not archaeological. The question is whether ocean exploration directed at finding shipwrecks (as opposed to mounting an archaeological excavation of those sites) should be subject to the UNESCO Annex rule 22 (thereby requiring archaeological collaboration). Although the arguer would be correct in one sense, that exploration is not the same as excavation, the reader should not be led to the further conclusion that these activities are not bound by the annex. In fact, the word ‘excavate’ is not a part of Annex rule 22: “Activities directed at underwater cultural heritage shall only be undertaken under the direction and control of, and in the regular presence of, a qualified underwater archaeologist.” If the annex is to guide procedure, then, at least to the archaeological community, oceanographic survey directed towards the discovery of UCH must be considered archaeology according to the terms of the CPUCH.

Obviously, archaeologists are not capable of (and are not at all interested in) policing all deep-sea voyages. The point of the discussion above (and the argument for the creation of ARBs below) is twofold. First, the authors want ocean scientists to understand why archaeologists feel a responsibility to be involved in UCH projects. Second, the authors want other stakeholders in ocean exploration to understand why a particular community – a group of professional, and here, specifically academic archaeologists (regardless of their particular academic posting) – feels a

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4 need to control projects that are being used to represent archaeology, due to the impact those  
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6 projects can have on the sponsoring university, its students, and its faculty.  
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10 In the case of BOEM, these issues were originally addressed by designating certain areas under  
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12 their purview to be potentially of high archaeological significance, based on predictive modeling  
13  
14 from survey data collected in 1977, 1989, and 2003. Commercial operations requiring a permit  
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16 from BOEM must work with archaeologists to survey those areas first, and identify and if  
17  
18 necessary mitigate any damage to cultural material. According to this view, an oceanographic  
19  
20 expedition off established sea-lanes in the middle of the Atlantic or Pacific would not expect to  
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22 encounter significant cultural material; an expedition exploring the territorial waters of any  
23  
24 Mediterranean country would almost certainly encounter it. In other words, it is less the title or  
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26 stated purpose of the expedition that is important for determining the appropriate role of  
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28 archaeology and archaeologists, but more the area in which the exploration or work is taking  
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30 place.  
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37 There are problems with this geographical model for determining the archaeological significance  
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39 of a region (as forward thinking as it was when it was created). Although there may be large  
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41 concentrations of UCH in areas so designated (coastal areas, areas of known traffic, etc.), this  
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43 approach, one that makes decisions based on geography and not intent, makes little theoretical  
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45 sense and overlooks potential unknown areas of deposition. In addition to making it difficult to  
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47 study materials that are outside of these designated safe havens, this practice would have the  
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49 effect of skewing the archaeological record to reflect whatever biases caused certain areas to be  
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51 protected (to the expense of others). If only certain areas are protected, and if artifacts therefore  
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53 only come from those areas, any conclusions reached based on those materials will be skewed to  
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55 match the initial assumptions of the group creating the areas of high archaeological significance.  
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4 The fact is that, given new technologies and theoretical models of sea trade, areas that have in  
5 the past been considered of low importance could become critical in the future. Establishing  
6 exactly when and how an archaeologist should be involved in any particular scenario is  
7 something best done in consultation on a case-by-case basis. In fact, as early as 2004 there were  
8 criticisms of the assumptions behind the aforementioned surveys, and as of March 2011, BOEM  
9 changed their policies, now requiring archaeological assessment for all areas of the Gulf of  
10 Mexico subject to seafloor disturbance by any activity under their authority.<sup>13</sup>  
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22 . Despite claims to the contrary, the greatest source of damage to UCH comes from activities that  
23 have nothing to do with the primary goal of collecting UCH. As documented by Foley (2007),  
24 the greatest danger to archaeological heritage in the ocean is modern industrial activity, and the  
25 deployment of cables, nets, etc. that destroy underwater sites. As damage to UCH by industrial  
26 use is unintentional, there would be a real benefit to having archaeologists ‘on call’ to provide  
27 information and to work on problems on behalf of other groups whose work impacts on UCH.  
28 Missions focused on exploration, at times, have an impact on UCH, and given the archaeological  
29 contention that activities that are directed toward the discovery of UCH (survey) or the  
30 disturbance or reclamation of UCH (excavation) are, to an extent, archaeological activities,  
31 archaeologists definitely take the view that exploration undertaken for the primary or even  
32 secondary purpose of discovering (but not excavating) UCH should be considered archaeological  
33 survey, and subject to archaeological (in addition to oceanographic) rules and standards.  
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52 In 2009-2010 the idea that the CPUCH annex should be seen as a guide to best archaeological  
53 practices was the subject of an international two-part workshop on UCH issues. Mentioned  
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59 <sup>13</sup> [http://www.boem.gov/Environmental-Stewardship/Archaeology/Gulf-of-Mexico-  
60 Archaeological-Information.aspx](http://www.boem.gov/Environmental-Stewardship/Archaeology/Gulf-of-Mexico-Archaeological-Information.aspx) accessed March 27, 2012).  
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4 above, “The Penn-Brock statement of principles and best practices for underwater archaeology  
5 and the stewardship of underwater cultural heritage in the Mediterranean” (Green 2010) is a  
6  
7 document that explores the definitions of UCH, the role of archaeologists in protecting UCH, and  
8  
9 the responsibility of archaeologists to work with other scientists and specialists to further their  
10  
11 understanding of and protection of UCH.<sup>14</sup> Our challenge lies both in working out best practices  
12  
13 from an archaeological point of view, and in helping researchers outside our discipline  
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15 understand the situation from our perspective, as well as trying to be sensitive to our scientific  
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17 and engineering colleagues’ different foci of attention, theoretical models, and areas of expertise.  
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24 The issues and questions outlined above are of particular concern to academic institutions  
25  
26 supporting interdisciplinary research and teaching initiatives that involve cultural heritage, both  
27  
28 in the ocean and in terrestrial contexts, and the evidence is clear that universities, once apprised  
29  
30 of the issues, can and do change long-held policies in favor of compliance with archaeological  
31  
32 ethical standards.<sup>15</sup> Based in part on the issues above, as well as on more global concerns about  
33  
34 the potential for abuses of projects being referred to as ‘archaeology’ at academic institutions  
35  
36 across the country, the members of the University of Rhode Island archaeology group (consisting  
37  
38 of 3 North American / Atlantic archaeologists and 3 Classical / Bronze Age / Near Eastern  
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40 archaeologists) decided to explore ways in which the core principles of the preeminent cultural  
41  
42 heritage conventions might be applied in practice at an institutional level.  
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51 <sup>14</sup> The conference report is available as a pdf file, downloadable from  
52 <http://www.archaeological.org/fieldnotes/reports/3291> (accessed December 21, 2011).  
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54 <sup>15</sup> Recent examples of universities changing policies in this manner include Yale University’s  
55 2010 decision to repatriate Incan artifacts brought to Yale in 1911 by Professor Hiram Bingham  
56 III by the end of 2012 and Wesleyan University’s 2010 decision to repatriate artifacts that  
57 belonged to a variety of indigenous groups in violation of NAGPRA. In this case, the push for  
58 compliance (and supervision of its implementation) was largely a result of action by a ‘local  
59 level’ group comprised of professors and students from Wesleyan.  
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4 The guiding belief of this effort was that inertia or apathy on matters of archaeological ethics at  
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6 the level of our government and legal system did not justify the same approach at an institutional  
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8 level. Academic archaeologists at universities throughout the United States of America should  
9  
10 proactively determine the role that archaeology will play at their campuses, and at all university-  
11  
12 sponsored projects on land and in the water. By doing this at the institutional level, a university's  
13  
14 archaeologists could make sure that archaeological projects created at that university would be of  
15  
16 the highest caliber, that their students would participate in scientifically and ethically rigorous  
17  
18 projects around the world, and that the university as an institution would be associated with  
19  
20 archaeology's best practices. The need for URI's archaeologists to form a distinctive organization  
21  
22 in order to establish themselves as an authoritative voice for their discipline was partly because  
23  
24 the faculty themselves were spread across multiple academic departments, which is a common  
25  
26 situation in U.S. universities. However, even in cases where archaeological activities are  
27  
28 concentrated in a single department, the fact that other stakeholders interested in ancient culture  
29  
30 or artifacts exist at a university would provide good reason to create such an organization.  
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39 As representatives of the academic archaeological community, URI's archaeologists have neither  
40  
41 the desire nor the ability to control projects by non-URI groups or by non-archaeologists. The  
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43 point of URI's proposed Archaeological Review Board (ARB), and of any ARB would be to  
44  
45 ensure that university-based archaeological projects live up to the international standards  
46  
47 outlined above, and that students participating in outside projects would have real assurances that  
48  
49 they were being steered toward the best the field has to offer. It is our intention that this model  
50  
51 would serve as test case for other university faculties in archaeology who are attempting to set an  
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53 example in matters surrounding archaeological best practices.  
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59 **Implementation at URI: Adopting ethical guidelines and identifying competent authorities**  
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4 Given the various stakeholders interested in UCH at the University of Rhode Island, the  
5  
6 challenge for our proposed ARB model will be to draw up a set of guidelines and procedures that  
7  
8 interpret the general recommendations of the relevant cultural heritage conventions within the  
9  
10 specific context of research, teaching, and supervision conducted under URI auspices, with  
11  
12 special attention paid to the strengths, needs, and limitations of our multidisciplinary partners.  
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17 A group invested in protecting UCH at the University of Rhode Island has decided to use the  
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19 CPOCH annex's guidelines, along with other sets of policies and procedures created by respected  
20  
21 archaeological organizations and conventions, to outline a proposed set of consistent and  
22  
23 appropriate best practices for all archaeological research conducted by or for URI. The CPOCH  
24  
25 holds a prominent place in this effort because deep-water archaeology and interdisciplinary  
26  
27 initiatives with oceanography and marine affairs are a focus of URI's institutional and faculty  
28  
29 driven research interests. Rather than invoking the 2001 CPOCH annex and related documents as  
30  
31 position papers, this inter-field group is looking at ways of transforming the recommendations  
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33 into actual procedures endorsed and applied by our University for all activities directed at  
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35 cultural heritage (on land and underwater).  
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42 The first step was to use the CPOCH to determine how decisions should be made in regards to UCH  
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44 policies. The convention states that these decisions are to be made by 'competent authorities'.  
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47 The CPOCH describes this in article 22.1:  
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51 In order to ensure the proper implementation of this Convention, States Parties shall  
52 establish competent authorities or reinforce the existing ones where appropriate,  
53 with the aim of providing for the establishment, maintenance and updating of an  
54 inventory of underwater cultural heritage, the effective protection, conservation,  
55 presentation and management of underwater cultural heritage, as well as research  
56 and education.  
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4 In the attached CPUCH Annex, rules 2, 9, 11, 12, 22, and 34 explain the roles that these  
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6 competent authorities play on all aspects surrounding the care of underwater cultural heritage,  
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8 including the provision that archaeologists must be physically on hand in positions of authority  
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10 on expeditions directed at underwater cultural heritage.  
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15 Who are these competent authorities? The CPUCH was designed to address states, but as laid out  
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17 in Varmer et al (2010) the United States has not signed the convention (arguing that it could be  
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19 used as a means to undermine national security on a couple of levels), there are no proactive  
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21 'competent authorities' at a national level. Since university faculty are hardly in a position to  
22  
23 assume the power and responsibilities envisioned for government agencies, the question is: who  
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25 would the competent authorities be, and how would their abilities allow them to both know  
26  
27 international ethical guidelines and to create university policies for the protection of UCH?  
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33 To answer that question, it is necessary to search for regional or national organizations that could  
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35 undertake this effort. In fact, there are a number of competent national and regional  
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37 archaeological organizations that already exist in the United States (e.g. the Archaeological  
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39 Institute of America, the Society for Historical Archaeology, the Society for American  
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41 Archaeology, the American Schools of Oriental Research), as well as non-profit consultant  
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43 groups that specialize in these issues, such as the Advisory Council on Underwater Archaeology  
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45 and Register of Professional Archaeologists. Each group has a code of conduct, which is at least  
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47 recommended, if not binding on all members of those organizations. However, many who now  
48  
49 participate in the study of cultural heritage are not members of those organizations and may be  
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51 unwilling to defer to them as competent authorities where cultural heritage is concerned, and  
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53 none of these organizations are able to perform the specific tasks outlined in the CPUCH.  
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4 Additionally, even if regional or national authorities on UCH could be found, there would be  
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6 questions as to their local authority (an issue that will be addressed below).  
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10 In addition to the contention that top-down legislation or structure does not provide the practical  
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12 ethical safeguards that are needed at an institutional level, there are good philosophical  
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14 arguments to not put too much stake in the efficacy of institutions nominally adopting general  
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16 principles in lieu of local regulatory structures. This critical view of top-down legislation is far  
17  
18 more in keeping with the philosophy of archaeology itself as a discipline. Twenty-first century  
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20 archaeologists operate within a framework of international laws, conventions, and well-  
21  
22 established traditions, but archaeology is just awakening to the idea that these conventions must  
23  
24 work in concert with (and not in lieu of) good local decision-making. Project-specific approaches  
25  
26 were not always considered ideal in a field that is in some ways still struggling to define itself  
27  
28 between the realms of science, history, and belief. As documented in Krieger (2006), terrestrial  
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30 archaeology in particular has suffered from ‘law envy,’ spending the middle of the twentieth  
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32 century courting philosophical authorities on science to ground archaeology in a more scientific  
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34 framework. This attempt, which resulted in processual, or “new archaeology” (especially the  
35  
36 new archaeology of North America) did help to push the field forward, but this motion, instead  
37  
38 of unifying the field, caused it to fracture into its currently dis-unified state, one where  
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40 processual, post-processual, interpretive, and other global and local archaeologies make  
41  
42 competing claims about the interpretation of (and the content of) archaeological data.<sup>16</sup> Many of  
43  
44 the arguments against the processual approach were directly related to the belief that this model  
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56 <sup>16</sup> Krieger (2011) argues that this is not a position to be feared. Despite the almost universal  
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58 belief that scientists can only work from within a unified field (and despite the obvious  
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60 counterexample, physics), archaeology has survived (and thrived) in a state of epistemological  
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62 and methodological disunity.  
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4 was created by an intellectual elite and applied in a colonialist manner, without regard to either  
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6 epistemological fitness or local concerns, and some current archaeologists have made great  
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8 strides to counteract this attitude, opening their digs to a variety of perspectives and stakeholders.  
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10 Perhaps the best known of these archaeologists and excavations (in terrestrialist circles) is Ian  
11  
12 Hodder at Çatalhöyük, but archaeologists worldwide are now making connections with  
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14 indigenous groups, non-dominant communities, and others who have been ignored by past  
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16 interpretations of the archaeological record.  
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22 The archaeological community is not the only group that has shown a growing distrust of trickle-  
23  
24 down governance. In the business world, this model is increasingly being seen both as an  
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26 impediment to creativity (a reaction to this is the open-source movement in computer software  
27  
28 and the Internet neutrality movement), and as an ineffective way to control behavior (despite the  
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30 work of early psychologists such as BF Skinner (1948, 1984). Ethicist Mollie Painter-Morland  
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32 believes that people should not depend on ethical guidelines coming down (by example or by  
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34 fiat) from the top, instead arguing for a more integrated approach to set a businesses' moral  
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36 compass:  
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42 That high-level individuals can and do play an important role in articulating priorities and  
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44 shaping the sensibilities of employees within organizations is not to be disputed.  
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46 However, if the role of such individuals is not to be denied, it is also not to be  
47  
48 overestimated. An analysis of business organizations as complex adaptive systems  
49  
50 suggests that the ineffable sense of normative congruence that develops among those who  
51  
52 participate in an organizational system over time may be of a far more complex and  
53  
54 relational nature. (Painter-Morland, 1980, 509)

55 In her article, Painter-Morland demonstrates a variety of problems that result in relying on the  
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57 “great man theory,” instead arguing for what she calls “systemic leadership.” This approach  
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59 argues that direction should (and must) come from all levels, including the ground level of an  
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4 organization. “The emphasis that is placed on interdependency, integration, and adaptation in  
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6 recent leadership literature suggests that the role and responsibilities that have typically been  
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8 attributed exclusively to those who were formally appointed to positions of authority within an  
9  
10 organization should be reconceived in more systemic terms.” (Painter-Morland, M., 2008, 519)  
11  
12 Painter-Morland’s systemic leadership approach (and other similar positions) addresses problems  
13  
14 with authoritarian business models in much the same way that archaeologists have addressed  
15  
16 top-down archaeological approaches, and the resulting system allows for decision-making to  
17  
18 come from all levels of the corporate structure. This model, she argues, results in better decision  
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20 making, greater flexibility, the possibility for real discussion of dissent, and a sense of trust that  
21  
22 decisions are well reasoned (a sense that is often absent when rules have been handed down  
23  
24 without explanation from the executive boardroom, or national authority). Given these views, in  
25  
26 an arena where absolutist directives might be regarded with suspicion or hostility especially in  
27  
28 cross-disciplinary conversations, an integrated approach, one that utilizes global agreements,  
29  
30 coupled with more local (here institutional) involvement and direction, seems to be the most  
31  
32 appropriate, and equitable means to achieve the goals of documents such the CPUCH annex.  
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41 In fact, an example of a successful institutional model already exists for implementing a review  
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43 process for faculty and student activities directed at cultural heritage. For many years, the  
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45 program committee for the Institute of Nautical Archaeology in the U.S.A. has monitored good  
46  
47 archaeological practice admirably for projects under INA auspices. Since the program committee  
48  
49 draws on the expertise of nautical archaeology faculty at Texas A&M University, it is well-  
50  
51 positioned to evaluate projects both on their archaeological merits and their suitability for  
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53 involvement by Texas A&M students, as well as serve as an ongoing resource for the  
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55 management of INA-sponsored projects right through to final publication. INA’s example, as a  
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4 local review board, can be seen as an ARB ‘proof of concept. Local authorities, qualified to  
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6 speak on archaeological matters and empowered by the guiding principles of the CPUCH and its  
7  
8 annex, the Penn-Brock statement, and relevant conventions and laws already in force in the  
9  
10 United States and in foreign countries are the best candidates to create approval and oversight  
11  
12 processes for underwater projects impacting cultural heritage.  
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### 16 17 **Rationale for an ARB** 18

19  
20 Although there is no national standard for such a review board (although the authors of this paper  
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22 hope that their efforts will prove helpful for others working on the same issues) there is strong  
23  
24 precedent for such a review board at any university. There are a number of groups on any  
25  
26 research university campus that are held to high standards, both professional and ethical. In order  
27  
28 to make certain that these groups work with the highest degree of integrity, universities and  
29  
30 professional groups have created 'review boards' for each of these disciplines. An Archaeology  
31  
32 Review Board would study and approve projects in the same way that any University with a  
33  
34 marine science program has a diving safety office and control board, and any social science  
35  
36 program has a committee that reviews research proposals involving human subjects, or any  
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38 biology program has an animal care division and protocols for using animal subjects.  
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45 An ARB would thereby assume the role (in principle, if not in a legally binding sense) of the  
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47 'competent authority' designated by the CPUCH. A central committee of UCH-centered faculty  
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49 members would be the best (in fact, the only) group that would meet the standard of  
50  
51 'competency' from both an academic perspective and from any university's institutional  
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53 perspective (an important distinction, which will be addressed in the next section of this paper).  
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57 In terms of the academy, any university (with a faculty and/or program in archaeology) has hired  
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59 a group that is charged specifically to teach its students, to present research in its name, and to  
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4 represent the university in archaeological matters before the international community. URI is  
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6 fortunate to have, in addition, a number of other faculty members who focus on cultural heritage  
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8 from different academic perspectives (such as people interested in ancient textiles, a variety of  
9  
10 earth and ocean scientists, classicists, and ethicists). These individuals and departments,  
11  
12 inasmuch as their disciplines and interests focus on cultural heritage, need to be represented on  
13  
14 the ARB. Rather than swell the board, URI's proposal (as of now) would be to have a standing  
15  
16 core committee representing archaeology (and other core disciplines that are concerned with the  
17  
18 protection of cultural heritage) with an additional list of on-call members, representing other  
19  
20 disciplines, including oceanographers and other underwater scientists for projects in the water,  
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22 textile or faunal specialists for land projects, etc. These specialists would rotate in to the group to  
23  
24 evaluate projects that connect with their fields of expertise. In terms of institutional  
25  
26 qualifications, this is the only body that is able to set policy (i.e. to determine whether an outside  
27  
28 project meets the ethical, theoretical, and methodological standards to be allowed for credit  
29  
30 toward a URI degree). Any other group of people, regardless of their personal or professional  
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32 credentials, would not have this ability, and as such, could only be called upon in an advisory  
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34 capacity.  
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#### 44 **The ARB's Contribution to Archaeology**

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46 Given the fact that local features will have a significant impact on archaeological practices, a  
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48 campus-based ARB would spend the majority of its time addressing local problems, depending  
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50 on the expertise, needs, and types of projects being pursued at that particular university, with  
51  
52 occasional questions arising on regional, national, or international problems. Whether these  
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54 larger issues could be handled 'in house' or in consultation with other scholars (or other ARBs,  
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56 either privately or at conferences), by keeping focus on the institution, the ARB would be the  
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4 means to ensure proper oversight for all archaeological projects, whether they take place on land,  
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6 in territorial waters, or in areas that are outside the normal organizations and territories where  
7  
8 strict cultural heritage laws and ethical guidelines are already enforced. An ARB would endeavor  
9  
10 to be informed about all university activities that impact cultural heritage, to obtain expert  
11  
12 guidance when needed, and to provide a wide range of information to excavators, students,  
13  
14 scientists, and administrators. As the nexus of archeological ethics, the board would perform two  
15  
16 primary functions:  
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22 First, the ARB would be charged with assisting academic archaeologists and other groups  
23  
24 interested in the exploration of UCH in creating archeological projects. In this way, projects  
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26 would be able to use the combined resources and knowledge base of the board's membership in  
27  
28 creating educational and research opportunities for faculty and students alike. This function of  
29  
30 the board would not be in any way intended to be a stumbling block for new or existing projects,  
31  
32 and its actual operations and procedures would need to be worked out carefully in order to avoid  
33  
34 a situation where campus archaeologists would create additional obstacles and red tape for  
35  
36 themselves without effectively increasing oversight in the areas where it was needed.<sup>17</sup>  
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41 Operational details aside, there are clear ethical principles and professional standards that an  
42  
43 ARB would endeavor to uphold, wherever possible, by providing helpful advice and by  
44  
45 promoting knowledge of good archaeological practices through a variety of positive and collegial  
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47 initiatives. The goal of this body would be to offer guidance and to ensure that all university-  
48  
49 based archaeological projects would be models of academic, ethical, and scientific practice.  
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56 <sup>17</sup> The authors of this paper are well aware that forming this sort of regulatory body will involve  
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58 a number of institutional and ethical decisions that will be institution specific. These  
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60 considerations, though vitally important to the success of individual ARBs, fall outside the scope  
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62 of this paper.  
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4 Second, the ARB's members would evaluate external archaeological projects prior to approving  
5 these courses for student participation and before accepting those courses for transfer credit or  
6 other research activity toward an undergraduate or graduate degree at the ARB's home  
7 institution. This final role is one that archaeology faculty members perform routinely already.  
8  
9 However, unless there was a committee already performing many of the functions outlined  
10 above, this process would be idiosyncratic and performed only on an ad hoc basis at the request  
11 of particular students. An important duty of the ARB would be to make field program evaluation  
12 more consistent, and to endow the process with institutional recognition and approval.  
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15  
16 An ARB at any campus would be explicitly charged with making sure that university based  
17 projects and credits are set up from within the framework of applicable laws and conventions for  
18 best practices, and board members would need to have no financial or partnership stake in any  
19 project brought up for review. In this way, the members would have the professional credentials  
20 to speak on these matters, the ethical backing to approve or deny projects that have an impact on  
21 the protection of cultural heritage, and the academic authority to speak on behalf of their home  
22 institution.  
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25  
26 As our administrators and colleagues have already shown that they take potential risks to cultural  
27 heritage seriously, we are confident that the ARB will become a reality at URI in the near future.  
28  
29 By working to create strong internal research collaborations and by screening external projects  
30 for URI student participation, the ARB will allow URI to be certain that its flagship field  
31 expeditions and its students are promoting the highest standards of archaeology, both on land and  
32 underwater.  
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4 Currently, the URI Archaeology Group is in the process of proposing the ARB to the University  
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6 and is using members of URI's faculty and administration (including members of other oversight  
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8 bodies at URI) to work out the many issues needed to bring our ARB from concept to reality.  
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10 Our broader hope is that our experience in interdisciplinary cooperation will create a positive  
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12 precedent, and a model for other university based archaeologists.  
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### 21 **Acknowledgements**

22  
23  
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