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**BARBARA ALLEN-DIAZ**  
Associate Vice President  
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Dear AVP Allen-Diaz:

UC Davis is submitting a proposal which addresses the continuity and sustainability needed to acquire, preserve, and provide ongoing access to water-related information resources for UC and other researchers. The proposal suggests a UC-wide approach which leverages existing collaborations and cooperation achieved by the UC Libraries. The enclosed proposal's focus to build upon existing UC library efforts was encouraged by the four campus library representatives to whom the RFP was sent as well as a California Digital Library representative. It is hoped that the proposed collaboration will be expanded to include all UC libraries that wish to participate. The UC campus libraries and the California Digital Library have a long tradition of collaboration and cooperation to provide resources, such as cost-effective access to thousands of full-text online journals and use of CDL services, such as the Web Archiving Service and eScholarship. Enclosed as Appendix A is the CDL's description of what it can be done on behalf of all UC libraries.

In addition, a proposal regarding the need for a venue to continue an organizational structure for water-related scholarship is appended as Appendix B.

We welcome questions and comments.

Sincerely,

Neal Van Alfen  
Dean

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Director  
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c: Brian Schottlaender (UC University Librarians Group convenor for distribution to ULs)  
Laine Farley, Executive Director, CDL

enclosures

**UC Libraries Collaboration:  
A Sustainable Acquisitions & Access Proposal  
For Water Information Resources  
Submitted by UC Davis  
May 12, 2010**

**INTRODUCTION:**

The UC Libraries recognize the importance of water research to the state of California and UC Agriculture and Natural Resources initiatives. For the past 60 years the UC Libraries, especially the Water Resources Center Archive -(WRCA), have collected print and electronic resources that are critical to UC and other water studies researchers, and have made these resources discoverable through online catalogs, such as Melvyl, Next Generation Melvyl, local campus catalogs, and web sites, such as the WRCA and Google. In addition, UC Libraries have a long tradition of collaboration and cooperation when developing collections of library materials and services for UC faculty, staff, and students which can be leveraged. It is important to develop a sustainable plan for acquiring, maintaining and enabling persistent access to vital water research resources which are best managed through a UC-wide program that preserves the current archival resources and improves the WRCA going into the future. The ultimate UC location for water-related library materials, including the current WRCA Library collections is not essential to a sustainable information resource acquisitions and preservation/archiving program.

**PROPOSAL:**

Charge a task force composed of representatives from each UC Library that wishes to participate and a representative from the California Digital Library to create a sustainable model for key water-related information acquisitions, preservation/archiving, and access to the collections.

**METHODOLOGY:**

- 1) UC University Librarians (ULs) are asked by ANR to charge a task force.
- 2) Task force completes its work within timeline identified by ULs who have consulted with appropriate ANR representatives.
- 3) Task Force recommendations are reviewed by ULs and ANR representatives to identify which recommendations are feasible to implement.

**DELIVERABLES:**

The task force will:

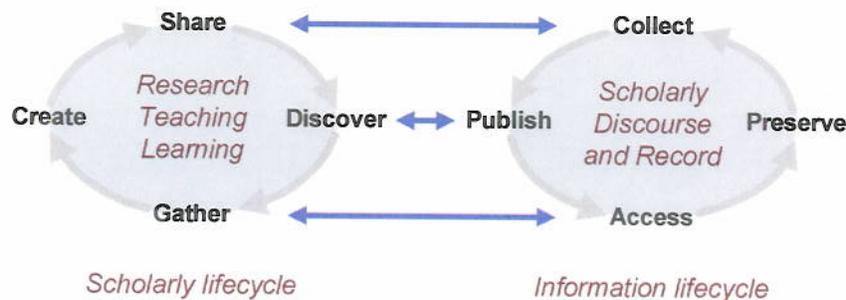
- 1) Develop a sustainable, collaborative, cooperative model of collections building
- 2) Recommend strategies, including funding models to digitize relevant and appropriate content from the WRCA collections
- 3) Recommend services, resources and tools that UC and other researchers will use to access information in the WRCA legacy collections and for future acquisitions.

## APPENDIX A:

### California Digital Library Perspective on the Request for Proposal for new Ownership and Management of WRCA

#### The Challenge

As the Water Resources Center Archive shows, both in its existing form and in the potential outlined in ANR's call for proposals for new management, building and managing a world class collection of scholarly materials requires the integration and long-term care of print, digitized, and born-digital collections, including published and non-published material of all types and formats. However, to meet the needs of UC students and faculty in the 21<sup>st</sup> century and beyond, the University must also extend the boundaries of a collection and of core library services to encompass the information lifecycle and to integrate it with the scholarly lifecycle activities of research, teaching and learning.



The California Digital Library (CDL) offers services to manage scholarly materials throughout their lifecycle and to embed and integrate them into research, teaching, and learning. With this integration as a guiding principle, and with its partners and collaborators at the campuses and campus libraries, the CDL builds high quality collections in digital formats; eases discovery and use of materials; publishes and disseminates UC's scholarship; and curates digital materials for the long-term.

#### A Suite of Solution-oriented Services

The CDL *builds collections* through programs that:

- License 3<sup>rd</sup>-party content for the UC community (e.g. 34,000 online journals)
- Digitize and host UC content (e.g. 2.5 million books through Google partnership; photos, audio and video from UC and state-wide archives)
- Archive Web resources (500 million web pages)
- Enable researchers to collect and manage their research data

The CDL *eases discovery and use of materials for research, teaching, and learning* through initiatives that:

- Consolidate and integrate discovery tools with the online lives of scholars and students (e.g. Google integration; Web2.0 tools; *Melvyl*; *UC-eLinks* ; *UCVerse*)

- Describe and index the scholarly record in both old and new forms (e.g. the addition of datasets, web-sites, working papers, etc. to *Melvyl* and *Next Generation Melvyl pilot project*)
- Leverage a single copy or item for systemwide use (centralized *Shared Print Collections*; *Request* and interlibrary loan tools)

The CDL *disseminates UC's scholarship* through programs that:

- Provide a flexible publishing platform for all stages of the scholarly lifecycle, from dataset through preprints, conference proceedings, seminars, journals, and books (e.g. *eScholarship*; *UCPubs*; *DataOne*)
- Thematically group and integrate materials harvested from diverse sources (*Calisphere*; *UCVerse*)
- Enable editorial and reader-commentary overlays on previously published material (*Calisphere*, *UCVerse*, annotation services)

The CDL *enables curation of digital materials for the long term* through initiatives that:

- Apply or combine a set of micro-services to create trusted, enduring repositories (e.g. *Digital Preservation Repository*; *Web Archiving Service*; local application of curation components)
- Create standards, policies, and tools that enable long-term stewardship of materials (e.g. persistent identification; integrity and fidelity checking; format migration; *JHOVE2*, *UDFR*)
- Address the particular challenge of access, use, and endurance of scholarly and scientific data (e.g. *DataCite*; *DataONE*, *DAX*)

## **WRCA – the Next Generation**

CDL services currently offer core support for the management and use of WRCA materials, which can be:

- collected, preserved, and accessed in the California Water Districts Web Archive (<http://webarchives.cdlib.org/a/CAWaterDistricts>);
- discovered in the Next Generation Melvyl Catalog pilot ([melvyl.worldcat.org](http://melvyl.worldcat.org)) and Google Scholar;
- delivered via UC-eLinks (<http://www.cdlib.org/services/d2d/UC-eLinks/>);
- accessed and read, among other articles and technical reports, in eScholarship (<http://www.escholarship.org/uc/wrc>);
- discovered, and in certain cases viewed, in the Online Archive of California (<http://www.oac.cdlib.org/institutions/UC+Berkeley::Water+Resources+Center+Archives>).

Through collaboration and partnership the organizational host of WRCA can leverage additional CDL initiatives into a discipline-specific suite of services that supports scholarly and community interaction with current and future water-resource related materials throughout their lifecycle. Doing so would extend the “archive” as an active resource for all stages of scholarly investigation, dissemination, and use. Among many possibilities are:

- Digitization of current analog materials for Internet-wide discovery and use

- Curation and publication of gray literature, datasets, and new forms of discourse found in blogs, websites, “scholar-sourced” commentary, etc.
- Long-term care and curation of digitized and digital materials
- Systematic addition of new scholarly genres and content related to water resource issues

Combined with the curation of the WRCA collection per se, these services would allow the WRCA to become a Next Generation scholarly resource, well-positioned to support – by providing and caring for a full range of scholarly outputs - emerging forms of scholarship such as virtual research environments and collaboratories, interdisciplinary research which includes water-resources as a component, and data curated as a “living” product of scholarship. The CDL stands ready to provide more details about these services, demonstrate production services and next generation prototypes, and join specific planning and action initiatives when and as appropriate.

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Service Glossary — descriptions of CDL applications, services, and tools mentioned above; for more information about these and additional services please contact the CDL at [cdl@www.cdlib.org](mailto:cdl@www.cdlib.org).

*Calisphere* <<http://calisphere.cdlib.org>> offers educators, students, and the public direct online access to more than 200,000 digitized primary source materials from educational and cultural institutions across California, organized into thematic collections.

*Curation Micro-services* < <http://www.cdlib.org/services/uc3/curation/>> comprise an approach to digital curation based on devolving curation function into a set of independent, but interoperable, services that embody curation values and strategies. Since each of the services is small and self-contained, they are collectively easier to develop, deploy, maintain, and enhance. Although the individual services are narrowly scoped, the complex function needed for effective curation emerges from the strategic combination of individual services.

*DataCite* <<http://datacite.org/>> is an international consortium, of which the CDL is a founding member, providing solutions for enhanced access to scientific research data, increasing acceptance of research data as legitimate, citable contributions to the scholarly record, and supporting data archiving for verification and re-purposing for future study.

*DataONE* <<https://dataone.org/>> is an NSF-funded DataNet initiative focused on ensuring the preservation and access to multi-scale, multi-disciplinary, and multi-national scientific data about life on Earth and its environment, including biological data from the genome to the ecosystem, and environmental data from atmospheric, ecological, hydrological, and oceanographic sources.

*DAX* is a project funded by the Moore Foundation developing best practice recommendations for the publication, archiving, and citation of technical appendices providing crucial expanded documentation of how data are analyzed, synthesized, and processed to reach scientific conclusions presented in the scholarly literature.

*Digital Preservation Repository (DPR)* <<http://www.preserve.cdlib.org>> serves the stewardship mission of the UC libraries by providing a single shared solution for the preservation, management, and controlled dissemination of digital collections that support research, teaching, and learning. The repository provides a set of self-service interfaces that the libraries use to deposit and manage digital objects, relieving individual libraries of the burden of creating and maintaining custom digital repositories.

*eScholarship* <<http://www.escholarship.org>> is the CDL Publishing Group's open access scholarly publishing platform, providing digital publishing services to the University of California and delivering a dynamic research platform to scholars worldwide

*Google Partnership* < <http://www.cdlib.org/services/collections/massdig/>> is one of a suite of mass digitization projects through which the UC Libraries are digitizing millions of books from their collections (another is with the Internet Archive). These projects expand the UC Libraries' ability to give faculty, students and the public access to information and support our exploration of new service models

*JHOVE2* < <https://confluence.ucop.edu/display/JHOVE2Info/Home>> is a mechanism for the automated examination of digital objects to determine their significant properties and implications of those properties.

*Licensed Resource Program* < <http://www.cdlib.org/services/collections/licensed/index.html>> provides electronic journals, databases, ebooks and other e-resources licensed by CDL on behalf of and in coordination with the ten UC campuses.

*Melvyl* <<http://melvyl.cdlib.org>> contains records for materials (books, journals, movies, maps, music scores and recordings, computer files, dissertations, government documents, etc.) held by the libraries of the ten UC campuses, and select partners. The database contains over 33,000,000 records, and most campuses update their holdings on a weekly basis.

*Next Generation Melvyl Pilot Project* <<http://melvyl.worldcat.org>> is a pilot version of a replacement for the current Melvyl Catalog, featuring a single interface that searches holdings in all UC libraries, books digitized by Google, materials from the Online Archive of California and eScholarship, as well as those of libraries around the

world through OCLC's WorldCat. It also searches for article references in many major disciplinary databases.

*Online Archive of California* <http://oac.cdlib.org> provides free public access to detailed descriptions of primary resource collections — and more than 170,000 images and documents digitized from them — maintained by more than 150 contributing institutions including libraries, special collections, archives, historical societies, and museums throughout California and collections maintained by the 10 University of California (UC) campuses.

*Request* [see UC-eLinks ]

*Shared Print Collections* The University of California Libraries' Shared Print collections consist of information resources jointly purchased or electively contributed by the libraries. Such resources are collectively governed and managed by the University Librarians for the purpose of maximizing access to the widest audience of current and future members of the UC community.

*UC-eLinks* connects scholars directly with articles and ebooks by providing an easy way to move from an article or book citation to the actual publication. It also lets users check to see whether an item is available in a UC library or to request that an item be delivered to them by interlibrary loan.

*UCPubS* <[http://www.escholarship.org/publish\\_ucpubs.html](http://www.escholarship.org/publish_ucpubs.html)> is a collaboration between the CDL's Publishing Group and UC Press, that offers UC departments, research units, and publishing programs the flexibility to provide free digital access to their book projects while retaining the ability to sell print copies.

*UCverse* <<http://ucverse.universityofcalifornia.edu>> is a multimedia portal project that will enable anyone anywhere to virtually "attend" UC, the world's largest public university, and participate in discussions of topical issues, focused initially on climate change.

*Unified Digital Format Registry (UDFR)* is a project organized by a loose consortium of national and academic libraries and archives, with the aim on consolidating the existing [PRONOM](#) and [GDFR](#) format registries. CDL staff serve on governance and technical committees.

*Web Archiving Service (WAS)* <<http://was.cdlib.org>> provides you with the tools to easily capture, analyze and preserve web content. The web archives created with WAS can be searched by keyword or browsed by site. WAS web archives are free to the general public, and WAS capture tools are available by subscription.

## **Appendix B. Collaborative Venue for Water-Related Scholarship**

The WRCA has long benefited researchers as a venue for research and scholarship focused on water, with its centralized and physically-accessible collection and outstanding reference and collection staff. The WRCA has a long tradition as a location where students and researchers can immerse themselves in water issues as well as for well-produced colloquia on water issues. Transitioning the WRCA collection and future acquisitions to the web will make more of this collection far more widely available to scholars, students, and professionals throughout California. However, this virtualization will provide a less satisfying venue for scholarship and immersion for many.

To retain the benefits of the WRCA's scholarly venue functions, it is proposed that ANR continue to financially support activities conducive to scholarly gatherings on water across UC campuses. These activities would be proposed by more than one campus and made available to students and researchers throughout California. Examples might include:

- Specialized symposia and workshops on topics of scholarly, policy, or applied interest (proposed by multiple campuses, often with some agency financial support)
- An annual or bi-annual conference of student-presented research (rotating among campuses or as part of a major California water conference, with major funding from consulting firms and agencies)
- Multi-campus field courses (involving faculty from more than one campus and with supporting funding from consulting firms and agencies)
- Webcast and archived major talks by water scholars on UC campuses or at UC Center Sacramento.

These efforts would be largely independent of multi-campus research efforts sponsored by ANR.