TECHNOLOGICAL INNOVATION AND COOPERATION FOR FOREIGN INFORMATION PROGRAM 1999-2002

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> ### Title: American Overseas Digital Library

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> ### Title: The Digital South Asia Library

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> ### Title: Russian Periodical Index Digital Project

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> ### Title: Accessing African Scholarly Journals

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> ### Title: Providing Web Based Bilingual Access to Chinese Business Education Materials

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Title: Latin Americanist Research Resources Project

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Title: The Digital Asia Library Interactive Project

AMERICAN OVERSEAS DIGITAL LIBRARY

Sponsoring Institution: The American Institute for Yemeni Studies
a 501(c)3 consortium of U.S. institutions of higher education acting, with the cooperation of the
Council of American Overseas Research Centers and the University of Utah's Marriott Library, on
behalf of itself and 10 other American overseas research centers, representing 15 overseas research
center libraries in Europe, the Near and Middle East, South Asia, and West Africa.

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Target Areas: Europe, the Near and Middle East, South Asia, and West Africa

ABSTRACT

The Project

        In pursuit of its longstanding commitment to area studies and to the dissemination of information resources indispensable for American understanding of the world's regions, the American Institute for Yemeni Studies (AIYS), acting for and with the cooperation of ten other American overseas research centers (AORCs) and their libraries, and in concert with the Council of American Overseas Research Centers (CAORC), has obtained grant support from USED for the newly formed American Overseas Digital Library, maintained by the University of Utah's Marriott Library. AIYS is a not-for-profit 501(c)3 consortium of U.S. institutions of higher education and is a member of the CAORC federation, as are the other AORCs cooperating in this project. The University of Utah is a member of most of these consortia.

        American Overseas Research Centers have home bases in the United States and operate research facilities, libraries, and offices in Europe, the Near and Middle East, South Asia, and West Africa. An explicit element of their mission is a long-term commitment to the maintenance, improvement and expansion of each institution's overseas libraries and collections of research data in all formats to support the study of these regions of the world by American scholars. Eleven American overseas research centers, and their fifteen libraries, led by AIYS and CAORC, propose to build on this existing infrastructure of center libraries to create an efficient, centralized, internet-based mechanism for the standardization and electronic delivery of important bibliographic and full-text primary- and secondary-source foreign information originating in these countries. The targeted resources in this project are vital to American research and teaching needs in area studies, but are currently largely inaccessible to Americans or are only available for use by scholars physically present in the center libraries. The individual AORCs have developed and catalogued research collections in their own libraries and have established collaborative links with important host country educational and research institutions and archives. Coordinated by CAORC, the overseas centers have surveyed their technological needs, evaluated the procedures needed to improve access to their libraries and research collections, and have developed a master plan that will maximize the potential of the valuable foreign information resources they control. The current proposal supports Phase II of this plan, wherein the centers begin to leverage the research value of these far-flung and diverse collections and connections to other foreign library resources by converting unique bibliographic and full-text data to standardized electronic form and creating a centralized infrastructure to disseminate it via an on-line digital library to be maintained by the University of Utah's Marriott Library. The project utilizes new electronic technologies in innovative ways to maximize the value of the unique strengths and local access of each of the participating centers.

        AIYS and the other participating AORCs, all constituent centers of CAORC, utilize local resources, foundation and government grants, and other third party contributions to support the needs of Americans carrying out research in each of the host countries and regions where they operate: Italy; Jordan; Tunisia, Morocco, and the rest of the Maghreb; India; Egypt; Turkey; Greece; Cyprus; Israel, Yemen, and Senegal and Francophone and Anglophone West Africa. By collaborating on this project, the AORCs take advantage of the complementary strengths and unique local expertise of their overseas libraries; attain a standardized sustainable level of technological infrastructure necessary for them to contribute continuing digital content to the newly formed, centralized American Overseas Digital Library (AODL); support, in dramatic new ways, the needs of the U.S. educational establishment in area studies research and international education; take advantage of the overlapping spheres of influence, contacts, and activities of these libraries; and focus on unique regional and interregional resources whose accessibility and value can only be fully exploited through this collaborative

technological approach. The University of Utah, itself a member of many of the AORC consortia, will house the consolidated overseas bibliographic full-text and multimedia data, as a distinct on-line resource using the existing web-based library-catalog database operations and staff of its own library.

This project capitalizes on the interdisciplinary and multi-regional nature of the aggregate of the American Overseas Research Centers and their libraries. The value of the project derives from the strength of the collections and the new resources to be made available and is leveraged by building upon an existing base of libraries with a proven record of use by American research fellows, affiliates, visitors, and research teams. The collection in each center reflects the particular character, history, and tradition of research done there, in some cases for more than a century. The range of resources and benefits that each center can immediately bring to the digital library project will vary due to their differing needs for networked infrastructural development: the project will address these local needs to create a centralized and interlinked electronic infrastructure that will present material that was previously completely inaccessible or hard to find in any consistent or standardized way. The internet-based dissemination of the digital library will ensure that the benefits of the local resources are made available to a wide constituency that greatly surpasses the current users of the collections *in situ*. Effective electronic access to this wide variety of foreign information resources and research materials will benefit U.S. area studies scholars at home and abroad by allowing efficient preparation, planning, and implementation of research projects and teaching initiatives, thus allowing them to maximize their research time abroad and to engage in international research and teaching even where foreign research travel is not possible. This extension of access is particularly significant for area studies students and faculty located at small colleges and universities beyond the traditional constituencies of the larger federally-funded National Resource Centers (Appendix A of the application).

The proposed project is cost-effective because it works with existing U.S. overseas libraries that have a long history of and mechanism for international cooperation, are well placed with strong connections in local governmental and academic spheres of activity to enable unfettered collaboration, and have accumulated or have access to unique collections of area studies resources in their world regions. The project achieves further cost-effectiveness by strategic application of selective one-time investments in infrastructure development and data conversion, after which it will attain self-sustainability through established long-term institutional support and recovery of costs from nominal fees for system-related services such as full-text delivery. Administration will be streamlined through CAORC, which already functions as the subgranting agency charged with program coordination and supervision of USIA and Andrew W. Mellon Foundation programs operated by its member centers, and has a proven record of efficient program and financial administration.

The selection of content, and the mechanics and implementation of the digital library will be carried out in stages according to priorities established by a broadly representative panel of regional studies scholars and librarians already involved in Title VI-supported scholarship.

ABSTRACT
The Digital South Asia Library: Electronic Access to Seminal South Asian Resources

Applicant: The Center for Research Libraries; 6050 South Kenwood Avenue; Chicago, Illinois 60637

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> **Project Dates:**   October 1, 1999 - September 30, 2002

Overview of the Project

The Center for Research Libraries (CRL) proposes a three-year collaborative project to maintain and improve access to vital resources for the study of South Asia. The project will provide the following digital research materials to users both in the United States and throughout the world via the Internet: 1) full-text documents such as select journals, pedagogical resources, statistical data and government documents; 2) electronic images such as maps and photographs; and 3) indexes to select journals in the regional languages of South Asia. Through this project academic researchers, business leaders, public officials and citizens in general will be able to find and receive from overseas by the Internet essential materials concerning South Asia not now accessible in the U.S.

It has become increasingly evident that in an era of static or decreasing budgets, research libraries need to develop innovative and collaborative strategies in order to acquire and maintain the resources necessary for research. In no area of study is this necessity more apparent than in the case of South Asia. Given the size and diversity of interest, both inside and outside of academia, it is clear that cooperative acquisition alone can not provide readers with the increasingly vital materials in South Asian regional languages or certain highly sought after resources in an effective or timely fashion. The proposed project addresses these issues by building upon a successful two-year pilot project, the Digital South Asia Library (DSAL), funded by the Association of Research Libraries' Global Resources Program and the Andrew W. Mellon Foundation.

The Center for Research Libraries is a not-for-profit corporation established and operated by scholarly and research institutions to strengthen the library and information resources for research and to enhance the accessibility of those resources. Founded in 1949, the Center functions as a cooperative, membership based research library dedicated to acquiring, storing, preserving, providing bibliographic access to and lending/delivery from a collection that complements and supplements the local collections of the major research libraries of North America. Through its programs, the Center supports individual member libraries in meeting their local users' needs for research materials.

Authorized Activities

The DSAL includes all seven of the "authorized activities" outlined in the legislation providing for this grant. The DSAL will facilitate access to resources for the study of South Asia from both the subcontinent and elsewhere by producing an electronic index of select journals in South Asian languages, a bibliographic database of official government publications, an index of the Oriental and India Office Collection's approximately 250,000 historical photographs, and a searchable database of the cartographic holdings concerning South Asia in the British Library. These access tools will be produced with the collaboration of institutions and consortia in the U.S., South Asia, and the U.K.

The DSAL will also directly deliver documents in South Asia identified from the aforementioned access tools through the Internet to readers in the U.S. and elsewhere. For a select number of South Asian journals the DSAL proposes to provide full-text versions accessible over the Web. Similarly, the DSAL will develop a site for full-text versions of parliamentary debates from South Asia. In addition, key statistical data, selected maps, and selected photographic images will also be available for immediate downloading to readers through the DSAL. In order to assist teachers of less commonly taught South Asian languages the DSAL proposes to digitize a number of text -books, grammars and readers previously created with government support as well as number of dictionaries and paleographic guides. For still other material identified by the use of the access tools of the DSAL, microfilm or paper copies will be scanned with the cooperation of institutions in South Asia and elsewhere to create electronic files for transmission to patrons. At the same time, the DSAL will identify documents in need of preservation microfilming to be carried out by collaborating consortia such as the South Asian Microforms Project.

In order to accomplish these goals the DSAL proposes to use not only existing software and technology, such as Ariel for windows and the Mekel Microfilm Scanner system, that comport to existing international standards but also to create new software. In collaboration with ARTFL (American and French Research on the Treasury of the French Language), a leader in developing digital technologies for library initiatives, the DSAL proposes to create software that allows the linking of statistical data with cartographic images to create innovative visual representations. Furthermore, the DSAL will use the experience of ARTFL to continue implementation of the Unicode encoding standard as means of displaying texts in the numerous scripts of the regional languages in South

Asia. For all of its proposals, the DSAL will build upon a network of established collaborative relationships with institutions in the U.S., the sub-continent, and Europe.

Need and Significance

As a site of major civilization for more than four thousand years, South Asia continues to comprise an enormous geographical and intellectual domain representing mo re than twenty-percent of world's population. More than forty years of sustained government support for language training and acquisitions has produced a sizeable body of informed scholars whose contributions to the study of South Asia have been unmatched outside the subcontinent itself. The Association of Asian Studies lists more than 760 members with South Asia as a major focus of academic interest. The number of American citizens tracing their heritage to the subcontinent is increasing so that in 1990 one in every two hundred Americans identified themselves as having ancestors from the sub-continent. With government funding for acquisitions through the Library of Congress ending this year, a consortium of U.S. research libraries is collaborating to ensure that the aggregate national collection of South Asian resources remains strong. However, with interest increasing and the number of publications proliferating rapidly the inherent dependence of cooperative acquisition upon inter-library loan can not adequately meet the needs for certain core materials or the less widely collected material in regional languages. The DSAL proposes to meet the challenge outlined above as well as achieve improved levels of coverage by providing electronic access to seminal resources from the subcontinent for the study of South Asia over the Internet.

Project Design

The DSAL will continue to use the models of collaboration and sustained growth established by the pilot project to increase participation in the project with the eventual aim of making it a self-sustaining institution. In the U.S. the project will rely upon the experience of the founding institutions of the DSAL pilot project, the University of Chicago and Columbia University, together with the Center for Research Libraries and ARTFL to ensure that the commitment to uniform international standards are maintained. The considerable resources and expertise of the British Library will also be invaluable to this project. In the subcontinent two founding members of the DSAL, the Roja Muthiah Library and the Sundarayya Vignana Kendram, will continue to foster cooperation among other South Asian institutions that have pledged their support. Together with its present and future collaborators the DSAL will enlist the aid and advice of prominent scholars in the various disciplines involved in the study of South Asia in order to select materials for inclusion in the project and to evaluate its performance. The DSAL hopes to share its experience and the expertise developed by ARTFL not only with other projects receiving grants under this rubric but also with other research libraries in the hopes of building a "new library movement" in South Asia responsive to local needs and ready to join in international collaborations. The collaborative nature of the project together with its established quality has contributed to its success in garnering offers of support not only from participating research institutions but also charitable foundations.

Resources, Management, and Evaluation

The support requested for the DSAL is modest relative to its benefits. Contributions of staff time and support from the participating institutions have reduced the labor costs. The DSAL will benefit from the expertise of motivated project assistants recruited from the University of Chicago's South Asia Language and Area Center. In addition computing facilities and material infrastructure are already in place in the U.S. Travel expenses will be modest and scheduled to coincide with national South Asia meetings. In the subcontinent, the DSAL has already benefited from the capable administration and technically proficient staff of its partner institutions as well as considerably lower costs for labor and materials. The DSAL will purchase a limited amount of special equipment needed by collaborators in South Asia. A grant from the Department of Education will enhance the likelihood that sister institutions in the subcontinent will also receive support from governments and foundations in the region. Along with the present grant, the DSAL can expect to benefit from future subscriptions and contributions in kind from collaborating institutions, charitable matching funds and the proven-track record of its proposed directors in obtaining and managing grants.

Management and evaluation of the DSAL will be the responsibility of the principal investigator, two co-directors, a project manager, advisory board and selection panel selected under procedures outlined in the main body of this proposal. They will assess the progress and success of the program not only by soliciting evaluations from users but also by an empirical consideration of the costs per transaction as well as a highly specific computer record of resources actually used by patrons.

Conclusion

Building upon an established project of technical collaboration with institutions in the U.S. and elsewhere the DSAL will maintain and augment the resources available for the study of South Asia to the mutual benefit of all concerned. The DSAL will particularly benefit readers with significant and expeditious material with which to continue and expand the body of knowledge on South Asia.

Russian Periodical Index Digital Project
(Letopis' Zhurnal'nykh Statei, 1956-1975)

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The Indiana University Digital Library Program proposes digitizing and offering on the World Wide Web a twenty-year portion of *Letopis' Zhurnal'nykh Statei* (1956-1975), a serial publication that indexes Russian periodicals from 1926 to the present. It covers more than 1,700 journals, series, and continuing publications of academies, universities, and research institutes in humanities, sciences, and the social sciences. Yet it also covers the popular periodical literature. As one librarian describes it in a letter of support for this project, *Letopis' Zhurnal'nykh Statei* is "the Russian language equivalent of *Readers Guide, Humanities Index* and *Social Sciences Index* combined."

This project will use digital technology to organize, preserve, and widely disseminate this unique Russian information resource to students and scholars worldwide. The index is an invaluable reference work that, despite the vast range of topics it covers, is largely unavailable to scholars of Russia and the former Soviet Union. Only about 15 to 20 universities in the United States have backfiles or current subscriptions to it, and most of these holdings are incomplete. As a reference work, the index is not available via interlibrary loan. Even for those scholars fortunate enough to have access to selected parts of the series, the research can sometimes be more frustrating than rewarding. The journal series lacks an integrated index, and the indexes it does have are of various quality, appearing at different intervals and for different geographic regions. Searching for items manually is cumbersome and time-consuming. Digitizing *Letopis' Zhuranl'nykh Statei* will make this extraordinary research tool highly searchable (by keyword, for example) and available worldwide via the Internet.

We propose digitizing the portion of the index that covers the years 1956-1975. These volumes cover an important historical period, yet were printed on highly acidic paper which has become extremely brittle. Consequently they now require preservation treatment. Earlier volumes have been reprinted, but those reprints end with 1955. Digital treatment will preserve the information recorded in the paper volumes, disseminate more widely that information, and vastly improve the searching capabilities. Although *Letopis' Zhurnal'nykh Statei* is a rare and difficult-to-use periodical index, the periodicals indexed in the work are relatively accessible. Many major universities have extensive collections of these journals. Copies of articles are available through interlibrary loan.

Indiana University will scan all the pages of the volumes and convert them to computer text files using Optical Character Recognition (OCR) software. We then will encode the text following the Standard Generalized Markup Language (SGML) guidelines, and provide keyword and other types of searching over the World Wide Web. The project will digitize approximately 250,000 pages of bibliographic entries and index entries. We propose establishing an informal partnership with ABBYY/BitSoft, the company that developed the Russian OCR software, Fine Reader 4.0. We will work with ABBYY/BitSoft to evaluate the software for this application – bibliographic data – providing input to them that might improve new releases of Fine Reader for future digital index projects.

Indiana University is perfectly suited to digitize *Letopis' Zhurnal'nykh Statei*. Not only are the university's programs in Russian and East European Studies among the finest in the United States, but the IU Digital Library Program has considerable expertise in projects of this type. Consider the university's strengths: Indiana University is home to the highly regarded Russian and East European Institute, long a federally funded National Resource Center, that attracts students and faculty with exceptional Russian language skills. IU's Department of History has a particularly strong concentration of Russian specialists. And the IU Libraries Slavic Collection, comprising more than 550,000 volumes and 1,6000 serial subscriptions, provides unique reference works for scholars from around the nation and the world. Furthermore, the IU Digital Library Program has proven itself a leader in mounting large digital collections on the World Wide Web and providing sustained support for network access to these collections. Most notable is the *Victorian Women Writers Project*, a collection of SGML-encoded texts that has earned national awards and recognition. IU is a member of the Digital Library Federation and is currently administering an Institute of Museum and Library Services grant to digitize textual, audio, and image collections.

A Project of Title VI SEC. 606. Technological Innovation and Cooperation for Foreign Information Access

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Accessing African Scholarly Journals: Sustainable Electronic Publishing and Indexing of African Journals through International Cooperation

Abstract

In collaboration with the African Studies Association (ASA), the Michigan State University (MSU) African Studies Center, MSU Libraries, the MSU Press, and MSU *MATRIX (with H-Net: Humanities and Social Science Online)* propose a major project of collaboration between U.S. and African scholars and librarians to publish journals online from Africa. With the co-sponsorship of the African Studies Association and guided by an International Advisory Committee drawn from the scholarly and library communities in Africa and the U.S., the project will increase broad academic, policy-maker, and other user access to African scholarly journals and the research they contain that now are not widely available in the U.S., across the globe, and even in Africa.

The project is inviting co-sponsorship by the Association of African Universities (AAU), the African Academy of Science (AAS), and the Council for the Development of Economic and Social Science Research in Africa (CODESRIA).

The project aims to design an economically sustainable cost-recovery system that provides fair recompense to African publishers and access to U.S. scholars.

This project will undertake the following major activities:

Electronic publication of African journals
- On a pilot basis, the project will provide global access to 10 African scholarly journals (adding additional titles to a total of 20 if the budget allows). The journals will be selected initially from the social sciences, humanities, and international development fields. They will be published in full-text on the worldwide web and in CD-ROM format, to be disseminated under the imprimatur of the invited participating collaborators - the African Studies Association, the Association of African Universities, CODESRIA, the African Academy of Science - and by the Michigan State University Press;

  The project will negotiate copyright regimes and a reasonable cost recovery system that is shared between the original African publishers and the project web publishers so as to create an economically sustainable and continuing electronic distribution system;

Expanding bibliographical indexing of African journal articles
  The project will work to insert this African scholarship into the relevant international   bibliographical databases;

> The team will develop a plan for accessing of the corpus of African journal scholarship by assessing their availability in the U.S. and developing a proposal for a national plan for distributed acquisition of that African journal literature that is not now widely available in the U.S., specifying what electronic publishing is needed for widened access.

This project will implement five goals of the new Title VI *Program for Technological Innovation and Cooperation for Foreign Information Access*, namely to:

(1) facilitate access to or preserve foreign information resources in print or electronic forms;
(2) develop new means of immediate, full-text document delivery for information and scholarship from abroad;
(3) support collaborative projects of indexing, cataloging, and other means of bibliographic access for scholars to important research materials published or distributed outside the United States;
(4) promote collaborative technology-based projects in foreign languages, area studies, and international studies among grant recipients under this title; and,
(5) develop new means of shared electronic access to international data;

This program will implement recommendations of the national report of the *Association of Research Libraries* and the *Association of American Universities* for increased access by U.S. universities and libraries to library and research materials abroad, including from Africa.

There are many and diverse U.S. audiences with an interest in obtaining access to this journal literature from Africa, including government researchers and development specialists, classical area studies specialists, scholars studying comparative global issues, teachers seeking data and analysis on particular countries and issues, and a surprisingly burgeoning body of U.S. citizens interested in Africa. An electronic publishing project to meet the needs of these important U.S. constituencies will succeed only if it is sensitive to the concerns and interests of African publishers and scholars.

A recent effort to increase U.S. scholarly and library access to African theses and dissertations revealed the suspicions and resistance that many African librarians and administrators have concerning freely releasing materials not available in libraries in the North. Africans often have viewed as self-serving the call for open access to the products of African research by scholars from North America and Europe who already have favored access to published journals, research funding, and publishing outlets for their research findings. In a period when the African universities and libraries are under severe financial constraint and some institutions are in crisis, Africans understandably consider very seriously the possibility of cost-recovery from wealthy users in the North.

Therefore, we believe that this project of providing Internet access to African journals will require a foundation of trust between the African publishers and the U.S. web-publishers and a serious effort of careful consultation with African libraries and universities with fair negotiation on the issues of copyright and economic rights. A fair cost-recovery system will be required to make web publishing of African journals sustainable. We will seek to identify the common ground between the interests of African publishers and of U.S. users to obtain access to these scholarly works at a reasonable and fair price.

Through this plan, the African journal scholarship can be more efficiently distributed within the scholarly community, priced differentially to provide a benefit for African users, and develop a more sustainable system by producing a revenue stream from electronic journal publication that makes continued publication possible in Africa and through the electronic outlets.

In undertaking this effort, we will benefit from the many models being tried and tested in the young and fast-developing field of e- publishing, particularly by those that are undertaking publication of scholarly journals from the South. These organizations include the *Journal Storage Project* (JSTOR) funded by the Mellon Foundation, the *International Network for the Availability of Scientific Publications*, and the *Electronic Publishing Trust for Development*, among others described in the proposal.

The faculty of the MSU African Studies Center have a long history of cooperation with African universities and with the scholarly organizations that we invite to co-sponsor this project. The leadership of this project at Michigan State University combines five co-directors with broad experience in scholarly publishing, libraries and their technologies, electronic networks, and scholarship concerning Africa.

The project is designed to develop a self-financing mechanism that will allow for non-profit sustainable online publishing of Africana journals that will become available to U.S. users and also worldwide. MSU is committed to continuing this project beyond the three-year limit of federal funding under this program by exceeding the 33% match required by the statute, and the actual match, including personnel and facilities not costed for this grant but required by the project.

**A Project of Title VI, SEC. 606: Technological Innovation and Cooperation for
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**International Cooperation to Expand the Range, Accessibility, and Availability of Research Materials for
Latin Americanist Students and Scholars**
Abstract

Description of the Project

Repeated surveys and studies have demonstrated that students and scholars in the United States lack effective
access to many scholarly journals published in Latin America. Many of these journals are not held in the United
States. Even when they are, relatively few titles are indexed so that users can identify the articles they need. The
Association of Research Libraries' Latin Americanist Research Resources Project, a consortium begun in 1994 that
now encompasses some forty-two major research libraries in the United States with strong Latin American
collections, in conjunction with the University of Texas at Austin's General Libraries and Institute of Latin
American Studies, proposes to address this gap through a project to enhance and expand a web-based journal table-
of-contents database maintained by The University of Texas at Austin-Latin American Network Information Center
(LANIC). This searchable database links directly to the participating libraries, enabling users to electronically
request copies of the articles that they need. The project will more than triple the coverage of articles from scholarly
and academic journals published within all areas of Latin America and the Caribbean. The project will also
improve and build new capabilities into the database, including a feature enabling users to download or e-mail
bibliographic citations and a current awareness service geared to individual research profiles.

Authorized Activities

The project encompasses six of the "authorized activities" delineated in the enabling language for Section 606. It
will facilitate access to print resources by providing powerful, key word searching of article citations through a
database fully accessible on the World Wide Web. Document delivery requests will be electronically submitted
and full-text articles then delivered to users through high resolution, electronic transmissions utilizing Ariel
document delivery software. Journals held by the forty-two U.S. participant libraries, together with the journal
holdings of new Latin American partners, will be joined electronically by means of the project database. This
database will continue to be created through the collaborative efforts of project participants, each of which is
responsible for subscribing to a predetermined set of Latin American journals, and then inputting the table-of-
contents information by means of a web-based template. The participants also provide priority cataloging for their
assigned journals.

The Web database will make readily available articles in a broad range of subjects and materials, in all languages of
the Latin American region, for classroom instruction and use. While the database now emphasizes journals in
Spanish and Portuguese, the project will expand into regions where materials are published in French, English, and
indigenous tongues. A special effort will be made to include materials written in the less commonly taught
languages of the region, especially Quechua and Aymara from the Andean region; Guaraní from Paraguay and
neighboring zones; dialects of Nahuatl and Maya from Mesoamerica, and various creole dialects of the Caribbean
basin.

The project, based on its successful collaborative model, will expand beyond our national borders by applying its principles of distributed collection resources, collaborative indexing, and electronic document delivery to new foreign partners. The first such institution will be the "Fundación Biblioteca Inca," a private, non-profit research library located in the Bolivian Andes which has built a collection of over 2,000 journal titles from the six Andean countries. Three additional Latin American partners will follow in order to build electronic and institutional connections with areas not now represented in the project. Central America, the Caribbean basin, and the Southern Cone countries of Uruguay and Paraguay will thereby join the Andean region, ensuring database coverage for all of Latin America.

Need and Significance

Latin America is a major world region whose strong historic connections to the United States, shared Hemispheric identity, evolving trade relationships, and ancestral links to increasing numbers of U.S. residents have spurred broad-based programs of research and teaching in American colleges and universities. However, library collections to support these programs face the ongoing challenges of poor national bibliographies, journal indexes, and bibliographic tools; incomplete holdings; and insufficient funds for acquisitions. Materials budgets have not even kept up with increased book prices, while publishing output continues to grow. Meanwhile, Latin Americanist scholarly inquiry increasingly relies upon research resources that were once dismissed as out-of-scope and inaccessible. A general action plan to address the declining rate of foreign language acquisitions in U.S. libraries was articulated in 1993, under the joint auspices of the Association of American Universities and the Association of Research Libraries. With funding from both participants and The Andrew W. Mellon Foundation, the AAU/ARL Latin Americanist Research Resources Pilot Project soon took shape as the first of three "demonstration projects" to find new solutions. The country's greatest Latin American libraries, along with many others, quickly joined in, since even they were unable to acquire the full range of Latin American publications required by their users.

The Project from the first sought to combine cooperative action with technological innovation to improve access to Latin American journals, a category selected in light of its significance to Latin Americanist scholarly communication. The project thus focused on creating an innovative, electronically searchable, Web-based table-of-contents database. Since its 1995 start, the project has grown to encompass forty-two libraries that have divided responsibilities to subscribe to and contribute information from more than four hundred journals published in Argentina, Brazil, and Mexico. The resultant database, hosted at LANIC, now includes some 4,300 table-of-contents, representing about 65,000 articles. Seventy-two percent of the journals currently covered by the database are not indexed in any other source.

We propose to expand this database to cover journals published throughout the region, and to add records for journal issues published prior to the project's start-up date of 1995. Journals from the Andean countries, Guatemala, and the other areas we will emphasize tend to be particularly obscure. Even for the Argentine, Brazilian, and Mexican journals already represented in the database, an additional 2,900 tables of contents, or about 44,000 articles, must be added to provide complete coverage back to 1990.

The table-of-contents index is available on the World Wide Web without restriction to users wherever they may be. The project's electronic, user-initiated request module links each article to the project-designated holding library. Users can then easily obtain the articles they need to consult. Additional programming, requested in this proposal, will ensure that the database interface conforms fully to contemporary interlibrary loan and document delivery standards. The installation of work stations with scanners, printers, and ARIEL software in each of the Latin American partner institutions will ensure high quality electronic transmissions over the Internet, guaranteeing the availability of materials not held anywhere in the United States.

The Latin American Research Resources Project represents the overwhelming majority of Latin American studies programs in the United States, and has taken shape with the guidance and support of organizations representing the widest possible scholarly and research constituency. The project's audience is the national community of Latin Americanist scholars and students. In the broadest sense, however, anyone with curiosity about the region is a potential user.

Quality of the Project Design, Personnel and Services

The Latin Americanist Research Resources Project was a pioneer in utilizing electronic technology to link a distributed, cooperative collection model with the added value of a Web-based table-of-contents database. The project will now expand to Latin American partners, in the process testing on an international scale both an improved and updated electronic document delivery module and the web template for data entry.

The personnel who will carry out these activities include Latin American area specialist librarians, library administrators, and scholars of major Latin American studies institutions. The project's Advisory Committee, which consists of seven senior scholars, library directors, and specialist librarians, offers guidance with regard to policy and strategy. The forty-two project bibliographers are directly involved in day-to-day operations. Latin Americanist bibliographers, who enjoy a long history of successful cooperative efforts, bring both experience and confidence to their collaborative work. LANIC staff designed the Oracle table-of-contents database and will supervise the contract programmers who implement the database enhancements. LANIC has received numerous awards from major Internet monitors, and was selected by the National Endowment for the Humanities as one of the twenty best sites for education in the humanities.

Adequacy of Resources, Quality of Management Plan and Evaluation
Project resources will be utilized to enhance the structure and features of the database per se, and also to expand its coverage by means of Latin American partnerships and additional contributions from U.S. participants. The participant matching share for grant funds will increase during the life of the grant, as the project builds toward self-sufficiency at an expanded level. The senior LANIC staff responsible for database design will provide technical support, and also recruit and then supervise programming consultants. These consultants will therefore be hired at a mid-range salary. Travel costs comprise the bulk of proposed expenses to develop Latin American partnerships, which in all cases will require on-site consultations. Payments for new tables-of-contents are based on actual costs at The University of Texas at Austin.

The project's management plan ensures full consultation between librarians and programmers in reassessing and refining the roster of database enhancements proposed for the second and third years. The trips to develop Latin American partnerships will be spaced so that the librarian coordinator can learn from previous experience. Questionnaires and other surveys will continue to be periodically prepared in order to assess project progress and solicit participant feedback. Statistical reports on both database use and table-of-contents record creation will be generated at LANIC to accurately document contracted activities. The Advisory Committee will monitor all of these materials and suggest changes as appropriate. Effective, flexible, cost-effective project management will thereby be assured.

Conclusion
The Title VI, Section 606 call for applications has arrived at a very opportune time. The Latin Americanist Research Resources Project is poised to accept the new challenge of international partnerships. With the cooperation of Latin American participants and the resources requested in the grant, we believe we can build in three-years a unique research tool that will cover the entire region.

Providing Web-Based Bilingual Access To Chinese Business Education Materials

(http://www.anderson.ucla.edu/research/japan/whatsnew/china.htm)

A Joint Effort of
Beijing University Guanghua School of Management
UCLA Anderson Graduate School of Management
UCLA Center for East Asian Studies

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In partnership with the Guanghua School of Management of Peking University and China's trade-related government agencies, the Anderson Graduate School of Management and the Center for East Asian Studies at UCLA jointly propose a three-year project to construct and maintain a "Global Window: China" website to provide a one-stop, user-friendly, internet-based business information on China. Its features include different curricular modules that are basic in business education in current MBA and other educational programs specializing on China. The new website builds on and extends the "Global Window: Japan" website created by Project Director Professor Archie Kleingartner of the Anderson School which has won four international awards since its construction in 1997, including the "Yahoo Pick-of-the-Week" Award, *The Net Magazine*, and mention in the "American-on-Line Internet Business Reference Guide".

The fundamental objective of the GLOBAL WINDOW CHINA website is to take advantage of the dramatic diffusion of information technologies and ongoing advance of digital technology to foster a fuller understanding of the culturally grounded subtleties and nuances that permeate international businesses' activities in China and to fill a pressing need for business education and information by providing, in a single source that is accessible through the internet both nationally and internationally.

As we envisage, the GLOBAL WINDOW CHINA website will provide business education materials and information on the Chinese economy, its business practices and cultural norms, and its ongoing administrative, legal and financial arrangement. All the topics will be consistently organized into 12 distinct fields. Each of these fields will have hyperlinks to existing worldwide websites, with Chinese-language full-text features accessible with a built-in Chinese-language software that website users can download to access Chinese language materials. The site will also provide an electronic text and companion guides on basic business courses on China - the Chinese economy, China's foreign trade and investment bureaucracy, financial institutions, the legal and regulatory framework, Chinese contractual norms, conception of intellectual property rights, and business language terminology. In addition, it will provide an electronic manual for the business executive in various stages of doing business in China that are generally found in disparate sources. These include market research, establishing contacts with Chinese government officials and company managers, the formal procedures and legal requirements of setting up manufacturing facilities and representative offices in China, how to conduct business negotiation, and disputes resolution through the court and arbitration systems.

The Website also has the following features:
• . The Business Guide
• . China Finance Barometer
• . China Foreign Trade Bureaucracy Directory
• . China Business Resource Center for 30 cities

We see the strengths of our web-based information source as follows:

• . Easy and Convenient Access
• . Portable Electronic Business Library
• . Instantaneous Chinese Full-Text Access
• . Depth and Timeliness
• . Downloadable, Editable Capability
• . Tool For Teaching Chinese Business Language
• . Low Cost

The main target audience of the China website are: 1) faculty and students in U.S. business and management schools; 2) the academic and media communities interested in China; 3) present and prospective U.S. and international investors and traders interested in China; 4) business service sectors (law, banking, finance, accounting, consulting, advertising, transport) specializing on China; 5) U.S. and international scholars, students, tourists and business travelers to China.

A consortium of four participating institutions will collaborate on this project. The project team is headed by Professor Archie Kleingartner of UCLA's Anderson Graduate School of Management, who creates the original "Global Windows Program" concept. He serves as the Project Director and Chairman of the Leadership Board. He will provide leadership and coordination among the four participating institutions, each of which is represented in the consortium as a Co-executive producer on the Project's Leadership Board. Ms. Rong Jiang serves as the project manager of the website.

Bringing China area knowledge and contacts to the project is the Center for East Asian Studies of UCLA, which is designated by the Department of Education as a National Resource Center for East Asian Studies. The Center has organized, co-organized, and co-sponsored conferences, seminars, and colloquia on China's State Council Intellectual Property Delegation, the State Council Delegation for China's Accession to the World Trade Organization, the Chinese Academy of Social Sciences Delegation led by Politburo member Li Tieying, U.S. Ambassadors James Lilley and Nicholas Platt, Hong Kong Chief Secretary Anson Chan and Finance Secretary Donald Tsang. Drawing on the expertise of 30 UCLA China studies faculty members in law, education, social sciences and the humanities, as well as those of Los Angeles' leading China-related community and business organizations, it will serve as a co-executive producer of the website. Its director James Tong is a member of the Website's Leadership Board. Clayton Dube, its Outreach Coordinator and East Asian Studies Website creator will be manager of the project team for the Joint Center.

Among the major Chinese participating institutions is the Guanghua School of Management of Peking University. As the premier university in China, Peking University has access to China's finest university library and is a remarkable storehouse of national, regional, and local information on trade policies and practices, business law, and profiles of Chinese consumers and producers. The Guanghua School of Management is the leading business school in China.

The project's Advisory Board include Professor De La Torre of the Anderson Graduate School of Management, managers for the China Services of KMPG Peat Marwick and Deloitte and Touche, the Commercial Attache of the Consulate-General of the People's Republic of China in L.A., Tom Plate, East Asian columnist for the L. A. Times, and Richard Baum, Director of the Center for Chinese Studies at UCLA.

A CENTRAL EURASIAN INFORMATION RESOURCE:
ABSTRACT

University of Washington Libraries
University of Washington Russian, East European and Central Asian Studies Program
The Evergreen State College
South Seattle Community College

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This application for funding under the Title VI Technological Innovation and Cooperation for Foreign Information Access Program is submitted by a consortium of educational institutions in Washington State's Puget Sound Region, consisting of the University of Washington (UW), The Evergreen State College (TESC) in Olympia, and South Seattle Community College (SSCC). The proposal requests funding for several activities that form parts of a long-term plan that embraces the acquisition of information from the Eurasian area in electronic and conventional forms, its archiving, digitization as needed, dissemination and presentation for use by specialist and non-specialist researchers, business and professional users, teachers, students and the general public. The specific projects for which the Consortium is requesting Title VI funding are parts of a coordinated plan which includes some activities already initiated by its member institutions and progressing with limited funding.

Access to the resource, the **Central Eurasian Information Resource** (CEIR), will be through an interactive atlas format which will serve as a more systematic organizing structure than any currently in use, and promises a more general revitalization of online area studies information delivery. The project will focus its efforts on the Russian Federation and Central Asia, and at a subsequent stage, Eastern Europe, the Baltic states and the Caucasus. The Russian, East European and Central Asian Studies Center at the University of Washington's Jackson School of International Studies, in cooperation with the UW Libraries and other UW programs, has already made major headway in developing some of these new REECA-related electronic information sources, and in providing access to existing commercially provided resources. Title VI funding will allow early completion of those parts of the CEIR project that (1) acquire or create new electronic information, (2) broaden access to existing electronic resources, and (3) bring both types of resource together with original curricular materials in an online format that can serve as a new organizational model for area studies information pertaining to any region of the world.

The kinds of foreign information that will be acquired or digitized and made available within the structure of the CEIR include:

- Online subscriptions to newspapers, news services, and periodicals, including specialized publications dealing with business and economics.
- Statistical data of many types, including economic, political and geographical, presented through interactive map displays.
- Bibliographies, indexes and directories at local and regional as well as national levels.
- Specialized topical maps of the region.
- Data related to business and economics.
- Digitized visual images, covering art, architecture, history and other aspects of the region.

Funding is sought for the following four groups of activities:

- *Acquisition and archiving of online textual information and numerical data*, and establishment of new sources of information, accelerating the completion of a program already in progress. Regional socio-economic data of any significant degree of definition are not commercially available in electronic format, and are difficult to acquire even in printed format. By obtaining and digitizing data that at present are dispersed widely among Russia's regional statistical agencies, and is generally available only in printed form, and even then with difficulty, the CEIR project will be making an important contribution to the national and international knowledge base on Russia's regions. The CEIR project addresses the lack of current and balanced online news from and about Russia's regions by negotiating with publishers rights to establish searchable, full-text archives of daily and weekly regional news publications on the CEIR server.

- *Development of an Interactive Statistical and Thematic Atlas*, presenting in digital map form statistical information published in the target countries, supplemented with other data collected by faculty and students of the consortium institutions. This project is at a prototype stage at the UW. The information made available in this format will cover the economy and the business world, political and electoral data, geography and natural resources, agriculture, land and water use, the environment and other themes.

- ***Image digitization and cataloging***, using the innovative CONTENT multimedia database tool already developed for this purpose at the UW, to add a visual dimension to the study of the area. A substantial start has been made with a major database of the architecture and cities of the region; funding under this program will be used to enhance the technology employed in building the image archive, the means of search, retrieval and display, and the range of visual information.

- ***Integration of foreign area information into instruction***, in fulfillment of the goals described in Section 606 (b). Online curricular materials developed as part of the CEIR project will enable up-to-date area information to be brought to the classroom, producing a catalytic effect on both the content and the instructional methodology of area studies courses. The greatest obstacle to study of the REECA region is a shortage of easily available materials that both appeal to non-specialists, and fulfill their need for detailed, immediately current information. Information in electronic formats helps to alleviate this problem, but can seldom be used in its raw state, and we attach considerable importance to the processing of electronic foreign area information for use in 'hybrid' courses that incorporate both traditional and online materials. The techniques developed for this educational purpose also make possible use of the information by a business and professional clientèle. We are committed to ensuring that a substantial proportion of the new foreign area information finds its way into the classroom and the boardroom.

Very preliminary versions of several modules of the CEIR are accessible on the World Wide Web at http://weber.u.washington.edu/~reecas/atlas/ceir-1.htm

Although the three-year project will see the development of a very extensive original electronic resource by the Puget Sound consortium, it is expected that institutions in the Pacific Coast Region and nationwide will eventually contribute information acquired from the region using their own resources. The CEIR is expected to develop a broader sponsorship, including non-governmental organizations, business enterprises, museums and non-academic institutions, a process that will naturally increase its visibility and use as well as the extent of its content.

The Digital Asia Library (DAL)

University of Wisconsin-Madison
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The United States has long held vital economic and strategic interests in Asia. Such interests are likely to continue well into the twenty-first century for economic, demographic, strategic, and political reasons. As such, informed citizens must understand Asia and Asian events not only from American perspectives, but also from the perspectives of the people and governments of Asia broadly defined to include the span of countries from the Indian subcontinent through the Pacific Rim and China.

Beginning in 1999 the University of Wisconsin-Madison, the University of Minnesota, and The Ohio State University, will join forces to create a Web-based Digital Asia Library (DAL). The DAL will provide a Web-based user-friendly, searchable, catalog through which users can access the growing number of Web resources originating in Asia. It will provide the scholarly, policy, and/or business communities with streamlined access to Internet sites which project librarians have reviewed and evaluated to exclude resources which are of low quality or relevance to understanding of Asia. In doing so, DAL will establish an entry point through which any World Wide Web user can access quality Asian materials that too often are neither easily identifiable nor useable due to the limitations of existing search engines.

The project has identified the research and curricular needs of the higher education community as the focal point of resource identification and selection, but also anticipates interest in and use of the resource by business, government, media, and other audiences. At the end of three years, the DAL Web site will include up to 10,000 reviewed, authoritative, active links to Asian web sites. In addition, the DAL partnership will work with the Association of Research Libraries and the Association for Asian Studies to explore the viability of creating a refereed electronic journal for Asian studies in the United States and overseas.

The Wisconsin-Minnesota-Ohio partnership is organized around the area studies library strengths of the research libraries of the respective institutions. Library specialists in China and Southeast Asia at Wisconsin, South Asia at Minnesota, and Japan at the Ohio State University will identify, evaluate, select, and catalog on-line documents available from a range of academic, government, and commercial sources originating in their respective regions. During these processes, project librarians will consult with faculty and staff affiliated with National Resource Centers in South, Southeast, and East Asian Studies, Centers for International Business Education and Research, and/or National Foreign Language Resource Centers at the respective institutions.

Overall project development will be guided by an appointed advisory board which will ensure that project parameters and priorities meet the needs of such centers and programs. This board will be chaired and appointed by the principal investigator, and will include specialists in area studies and electronic information from the partner institutions, the Association for Research Libraries, the Association for Asian Studies, and other bodies as appropriate.

The DAL Web site will be maintained on the University of Wisconsin-Madison General Library System server, and will include English-language resources and those published electronically in Roman and non-Roman alphabets in such languages as Chinese, Japanese, Hindi, and Thai. Materials in the DAL will support teaching and research at the undergraduate, graduate, and faculty levels, and will be of particular benefit to scholars who do not typically have access to the expertise of area bibliographers or the resources of a major research library.

The catalog will include current information and data suitable for use as reading materials and/or research resources, such as Asian newspapers, journals, governments, and other primary documents used in lieu of or in addition to published textbooks. It is expected that instructors who are developing digitized reading materials for courses in the less commonly taught languages, for which standardized texts often are not available, will benefit from access to Asian-language resources selected for the DAL. Other resources, particularly English-language electronic publications, may be appropriate for use as outreach programs and/or by the policy community.

Designed to accommodate diverse information location and retrieval strategies, the DAL catalog will feature a user-friendly interface and will offer three major vehicles through which users can locate resources: hierarchically organized topical menus for browsing, searches using pre-determined categories either singly or in combination; and, open-ended keyword searches. It will establish links to resources that are retrievable in one or more of the following electronic formats: indexed references and/or full text documents that are now available as Web publications; downloadable publications in PDF format; materials available through on-demand document delivery services; sound; and/or video.

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