



Helen Jones Foundation
Proposal Summary

2005

Name of Organization:	Texas Tech University Libraries
Campus Address: (full postal address)	Texas Tech University Libraries Box 40002 Lubbock, TX 79409-0002
Telephone:	(806) 742-3758
Fax:	(806) 742-0496
Name of Primary Contact Person familiar with project:	Christopher Starcher, Assistant Librarian Texas Tech University Libraries
Telephone:	(806) 742-2240
Amount requested:	\$55,411
Description of Project:	The goal of this project is to increase access to and preserve the audio recording collection at the Texas Tech University Library through the use of streaming technology. The audio CDs will be converted into files that can be streamed over the internet. The files will then be given cataloging data, stored on a server and offered through a digital asset management system. This will allow the audio files to be accessed by patrons from any computer with an internet connection. The CDs will then be copied to preservation quality compact discs.
Time Table:	Two years (January 2006 – December 2007)
Specific use of funds requested (building, equipment, salaries, scholarships, administration, etc.)	Computer equipment, computer software, student assistant salaries

Signature of Dean or Director

**A proposal to
Helen Jones Foundation
from
Texas Tech University Libraries**

Streaming Audio Collection

BACKGROUND OF THE ORGANIZATION

The Texas Tech University Libraries support the University's teaching, research and service mission. To meet the educational needs of students, faculty, and other scholars, the University Libraries maintain collections comprising more than 2.4 million volumes; 2.3 million microfilm units; 22,717 serial subscriptions; and 85,969 audiovisual materials. These numbers include government documents. Because of the quality of the collections and services as well as a commitment of fiscal and personnel resources, the Libraries were admitted to the Association of Research Libraries (ARL) in 1997. ARL membership demonstrates that Texas Tech is recognized as one of the nation's elite institutions of higher learning. Since the Libraries were admitted to ARL, an association that includes the nation's top 100-plus scholarly libraries, it has steadily moved up in rank.

As the largest library in a 300-mile radius, the University Library is open to the campus community and the general public. All citizens of Texas are eligible for circulation privileges at the University Libraries through the TexShare program. As one of only two regional depositories for U.S. Government publications in the state of Texas, the Libraries receive all publications distributed under the Federal Depository Library Program. The Libraries also house a Patent and Trademark Depository Library collection.

DESCRIPTION OF PROJECT

Technology has afforded libraries unprecedented opportunities to deliver information and services to their patrons. The goal of this project is to preserve and increase access to the audio recording collection at the Texas Tech University Library through the use of current technology.

The audio recording collection at Texas Tech University is the premier collection audio recordings in the area. The collection supports students and faculty in the College of Visual and Performing Arts, as well as the Texas Tech University community at large.

The most heavily used items in the collection are the compact discs (CD). Streaming the audio of the CD collection will expand access while overcoming the physical limits of the current state of the collection. The use of streaming technology will enable patrons to access this collection

from any computer with an internet connection. This will greatly benefit distance education. The audio files may be linked in the WebCT course management software used by Texas Tech University. This will allow distance students the same access as local students. The streamed audio will also be available for use in networked classrooms across the campus. This will enable professors to use the audio in their lessons without having to check out the physical copy from the library.

The audio CDs have become worn from heavy use. By offering streaming audio, a substantial amount of future damage will be avoided. The CDs will still be available. However, their usage will greatly decrease.

Early in the next fiscal year, the University Libraries will have a digital asset management system in place that will allow the audio recording collection to be more widely accessible. The Library is currently pursuing the digitization of sheet music as part of another project. The digital asset management system will allow the eventual linking of sheet music files with sound files of actual performances. Patrons will then be able to listen to recorded performances while following along in the score.

The audio CDs will be copied to archival quality CDs for preservation. This will allow for the restoration of corrupted files on the server. This task will be performed by student assistants. A high-capacity CD burner and gold quality CD blanks are required.

The files on the original audio CDs will be converted to files that can be streamed over the internet. These files will be loaded onto a server and will be accessible from any computer with internet access. If the original audio CD is borrowed, patrons can still access the streamed version through any web browser. This task will also be performed by student assistants.

Descriptive cataloging is available for most of the music recordings. The digital asset management system will allow descriptive cataloging records to be imported into the system. The descriptive cataloging records and the audio files will be linked, making them easily accessible to patrons using web browsers. The linking of descriptive cataloging records will be performed by student assistants.

The conversion and preservation of the 3,000 CDs will occur as follows:

- 1,500 in the 2006 calendar year
- 1,500 in the 2007 calendar year

STATEMENT OF NEED

Due to budget constraints of the University and the Texas education system, the Libraries will be able to provide only minimal support to this project. The University Library will allocate funds on an annual basis for the conversion and preservation of newly acquired items in the University Library audio recording collection. The University Library will also allocate funds on an annual basis for the maintenance and upkeep of the building and equipment.

PROJECT BUDGET FOR 2006 CALENDAR YEAR

(All totals have been rounded to the nearest dollar.)

Equipment:

Item	Quantity	Unit Price (\$)	Total (\$)
High capacity PC workstation	2	6,450	12,900
Adobe Photoshop software	2	400	800
Sesame Database Manager	2	249	498
Sony dual layer CD/DVD burner (#DRX-710UL)	1	250	250
1 terabyte hard disk storage (storage area network)	1	11,697	11,697
Windows 2003 Streaming Server	1	7,402	7,402
Archival quality CD blanks	3,000	1.35	4,050
Equipment Total			37,597

Personnel:

Task	Rate (hr.)	Hours	Wage (\$/hr.)	Total (\$)
Archival copying	5	300	6.25	1,875
Converting audio	4	375	6.25	2,344
Generating records	2	750	6.25	4,688
Personnel Total				8,907

Total Amount Requested 2006	46,504
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PROJECT BUDGET FOR 2007 CALENDAR YEAR

Personnel:

Task	Rate (hr.)	Hours	Wage (\$/hr.)	Total (\$)
Archival copying	5	300	6.25	1,875
Converting audio	4	375	6.25	2,344
Generating records	2	750	6.25	4,688
Personnel Total				8,907

Total Amount Requested 2007	8,907
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Total Amount Requested For Project	55,411
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There are no other sources of funds for this project and no other applications are pending.

CONTACT

Christopher Starcher, Assistant Librarian
Texas Tech University Libraries
E-mail:christopher.starcher@ttu.edu
Phone: (806) 742-2240

Qualifications:

Assistant Librarian, 2003-present, Texas Tech University Libraries
Music Cataloger, Liaison to School of Music
Master of Library and Information Science, 2003, University of North Texas
Bachelor of Music in Vocal Performance, 2000, Texas Tech University

Jim Brewer, Systems Administration and Integration Librarian
Texas Tech University Libraries
E-mail:jim.brewer@ttu.edu
Phone: (806) 742-4918 ext. 295

Qualifications:

Assistant Librarian, 2005-present, Texas Tech University Libraries
Systems Administration and Integration
Digital Projects Coordinator, 2004-2005, Texas Tech University Libraries
Master of Library and Information Sciences, 1979, University of Wisconsin-Madison
Master of Arts in German, 1978, University of Wisconsin-Madison
Bachelor of Arts in Mathematics and German, 1970, Bucknell University

Education

<i>University of North Texas</i> Master of Science in Library Science	August 2003
<i>Texas Tech University</i> Master of Music in Vocal Performance Hours Completed: 17	August 2001
<i>Texas Tech University</i> Bachelor of Music in Vocal Performance	August 2000

Employment

Assistant Librarian November 2003 - present
Texas Tech University Library, Lubbock, TX

Music Cataloger

- Provides copy and original cataloging of monographic and serial music resources acquired by the University Library using standard cataloging and classification tools such as AACR2, LC classification, LC subject headings, and MARC format.
- Provides necessary maintenance of bibliographic records and authority control of records for library materials newly cataloged.
- Supervises support staff in copy and original cataloging of monographic and serial music resources acquired by the University Library.
- Supervises student assistants in binding of new music materials and rebinding of damaged music materials.

Liaison to School of Music

- Provides information services to School of Music faculty and students, including reference services, information literacy instruction, and library tours.
- Works with School of Music faculty to enhance collection development.

Employment

March 1 to present

System Administration and Integration Librarian, Texas Tech University, Lubbock, TX

Coordinate integrated library systems administration activities, oversight of hardware and software installations, integrations, configurations, troubleshooting. Liaison with the campus service group for hardware, OS and data backup.

June 2004 to April 2005

Lead Programmer/Analyst, Texas Tech University, Lubbock, TX

Plan and implement library systems for management of digital collections, including electronic theses and dissertations, image collections (slide, photographic), interpret technology to staff and campus.

May 2002 to March 2004

Programmer Analyst II, Texas Tech University, Lubbock, TX

(Lead Programmer/Analyst as of July 2003) DBA for Oracle on Windows, Server Administrator (Windows) and Help Desk Support. Database Administrator for Advance System (BSR Systems Inc., Boston, MA) and Server Administrator.

November 2000 to April 2001

Database Administrator (DBA Group), Escalate, Inc., Redwood Shores, CA

Primary responsibility for ERP systems with support role for OLTP systems. 20 Oracle databases including production and test systems. June 1999 to October 2000.

Corporate Database Administrator, The 3DO Company, Redwood City, CA

Corporate Database Administrator for The 3DO Company on multi-platform Sun/Solaris UNIX systems using *Oracle Applications* (version 10.7 character and RDBMS 7.3.3.4) for 25 online users and extensive EDI. Develop corporate standards for database design. Participate in Oracle Corporation Usability Testing.

March 1997 to June 1999

Database Administrator (Oracle), Micro Focus, Mountain View, CA

Worldwide Database Administrator for Micro Focus on multi-platform Sun/Solaris UNIX systems using *Oracle Financials* with *Citrix WinFrame* (NT) front end and Windows 95/98 Clients. Manage all aspects of Production, Development, Testing and Reporting instances using Oracle 7.3.3.3 with GUI clients. Approximately 450 users worldwide (U.S., U.K., Germany, France, Spain, Italy). Install and configure NT cluster of *Citrix WinFrame* servers used as front end to *Oracle Applications*. UNIX System Administration on Sun/Solaris platforms. familiarity with Sybase and HTML programming.

March 1991 to February 1997

Senior Programmer/Analyst, Micro Focus, Palo Alto/Mountain View, CA

SOLAR Development (Micro Focus Information System). Client/server distributed database application using Micro Focus COBOL tools (PC COBOL ANSI 85 with Micro Focus extensions, WAN, PC Assembler, C, Fileshare, CCI, Dialog) for customer/contact management, order and literature processing, transaction logging, sales history and reporting.

June 1986 to February 1991

Analyst, Cincinnati Bell Information Systems, Chicago Office, Switch Manager Group. PC system linking mainframe billing database and cellular telephone switches. Extensive travel to client sites (cellular telephone companies) nationwide, client consulting, PC programming in COBOL, Assembler and C. Interfaces to cellular

voice mail systems. TSRs, programming of co-processor board (Digiboard) and development of resident debugger for co-processor applications and offloading applications, code and implement PC-based cellular fraud detection system. Training and technical documentation. Custom interfaces to client cellular switches, conversion of communications programs from COBOL to C. Project leader for various client special projects.

September 1979 to June 1986

University of Wisconsin Library System, Madison, Wisconsin

Assistant to Automation Librarian, 1983-1986

Online Catalog Implementation Team, Network Library Catalog System

Requirements, design. Work with branch librarians (nearly 50) to discuss upcoming changes, bring issues of retrospective conversion to staff, discuss differences in the ways that serials holdings are recorded. Take concerns back to Online Catalog Implementation Team. Conversion of data formats, reconciliation of locally assigned subject headings

Festschriften Index Project: Ongoing student staff supervision (20 students), bibliographic computer programming. Work with History of Science Bibliographer in using the programs developed.

Systems Specialist, 1979-1983.

Serials Acquisitions Librarian: Review online serials check-in and claim systems, arrange demos of software. Subject specialist for Germanic languages. Assistant to Department Head.

Festschriften Index Project

Co-author NEH proposal for funding. Ongoing student staff supervision (20 students), bibliographic computer programming. Work with History of Science Bibliographer in using the programs developed.

College and Graduate Education

1979-1981

University of Wisconsin–Madison Computer Sciences Department Programming language courses: Pascal, COBOL, C, FORTRAN, Assembler; graduate courses: computer systems architecture, data structures, compiler design, databases, systems analysis.

1978-1979 Master's degree 1979

University of Wisconsin–Madison School of Information and Library Science

1974-1978 Master's Degree 1976, minor in Russian

University of Wisconsin–Madison Department of German.

Linguistics and literature. Editorial Assistant for national publication *Monatshefte* (1975-77). Teaching Assistant beginning and intermediate German (1973-75, 1978).

1970-1973

University of Wisconsin–Madison Department of Mathematics

Graduate work in mathematics with concentration in analysis, topology, algebra and logic. Teaching Assistant calculus [semesters I-III], linear algebra, differential equations and matrix theory, trigonometry.

1966-1970 Bachelor's Degree 1970

Bucknell University

Majors: Mathematics and German. Honors 1968-1969: attended University of Munich, Germany; course work in mathematics, German, and Russian).

Academic Awards

Phi Beta Kappa (1970, Bucknell); **Delta Phi Alpha** (German Honorary) (1968, Bucknell); **Dobro Slovo** (Slavic Honorary) (1977, University of Wisconsin–Madison) Various academic publications, book reviews and papers presented at national conferences.

Other Information

Fluent in German. Reading knowledge of Russian. Hobbies and interests: art, drawing, sketching, painting, computer graphics and 3d drawing, computer art, classical music, photography, video, history, and psychology. Extensive technical writing experience; translation of foreign-language technical papers into English.