

# Recital Preservation: before they fade away

DIGITAL FRONTIERS 2016

22 September 2016

Houston, Texas

# Shepherd School of Music



The Shepherd School of Music

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## Shepherd School Opera's 2016-17 Season

The Shepherd School Opera Studies Department announces their 2016-17 season. [Learn more.](#)  
Photograph by Ted Washington



PERFORMING ARTS CENTER



SHEPHERD SCHOOL ALUMNI



TODAY'S EVENTS



THE SHEPHERD SOCIETY


- Formally opened in 1975
- Currently over 300 faculty and students
- Thousands of performances recorded and collected in multiple formats over the years

# History

- Earliest recordings (1975-1983) of performances were reel-to-reel format
- Deemed at high risk of deterioration, Fondren Library and the Shepherd School of Music collaborated to place digitized performances from reel-to-reel format in the institutional repository in 2006
- Programs from Shepherd School performances are digitized and online in the institutional repository
- The archive receives about 30 views a month from the US and overseas
- Patrons include Rice University alumni, former faculty, and music students from other institutions



# Performances in IR




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Rice Scholarship Home / Publications and Performances / Shepherd School Performances

## Shepherd School Performances

Search within this community and its collections:

Go



### Archive Description

This is a collection of digitized performances by students and faculty of the Shepherd School of Music, Rice University, recorded during the years 1975 -1983. Performances include approximately 340 concerts and recitals presented in various venues including Hamman Hall, the Rice Memorial Chapel and Milford House.

For more information regarding the music school program please see [Shepherd School of Music](#).

NOTE: We do not have these recordings on compact disc or any other physical tangible format. They were originally recorded on open reel tapes, which were in advanced state of decay and were not salvageable after the digitization process.

### News

Learn more about [Finding Recordings of Rice Shepherd School of Music Concerts and Recitals](#)

### Collections in this community

Individual Musical Works [1968]  
Shepherd Pieces

Recitals [347]  
Shepherd Performances

### Recent Submissions

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# Preservation Issues

- Library holdings of Shepherd School audio cassette tapes (1983-2002) are becoming at-risk (reasonable useful life = 20 years)
- Digitization will improve access and discovery (cassettes are not circulating)
- Pilot project focusing on a single year to determine feasibility of digitizing the larger collection, including estimating needs





# Pilot project work plan

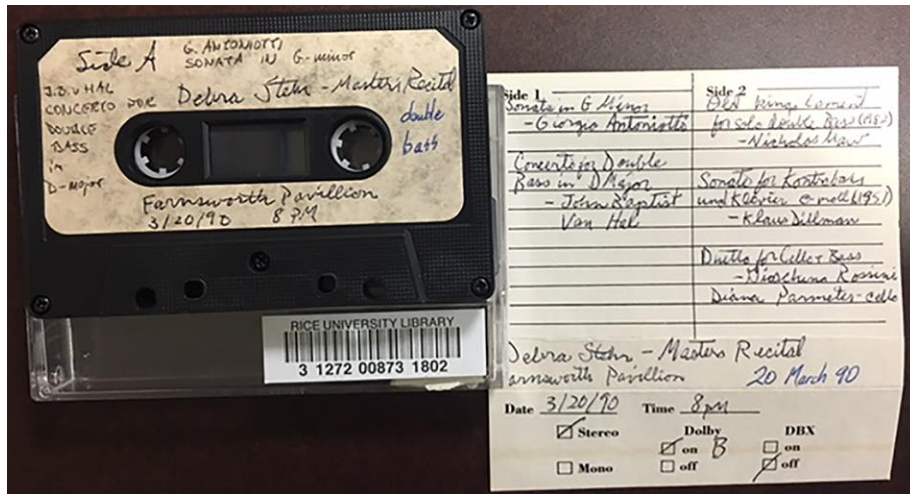
- Compile inventory of cassettes to be digitized for one calendar year
  - Document copyright concerns and address possible scenarios
  - Test and refine digitization workflows
  - Determine file storage needs for master and access files
  - Timeline: summer 2016
- Funding for the pilot project:  
**\$0**; utilize existing:
    - Storage infrastructure
    - Staff
    - Equipment

# Copyright challenges

- Current practice is to require students to sign a release form for performances; this practice was not in use for the performances in the project years
- Performances were conducted for academic purposes; there is no commercial use
- Rice University pays blanket license fees for copyrighted music to BMI and Ascap
- Low risk of copyright issues for cassette performances since scope is limited to 1980's-2002
- Rice University legal counsel advised that placing legacy recordings online should not require special licensing or permissions
- If a complaint occurs the policy is for the performance to be taken down

# Inventory for pilot year 1990

- Subject Specialists:
  - Music Librarian, primary liaison to Shepherd School of Music
  - Music Cataloger
- Physically count the tapes for the calendar year
- Compare to the list of the print program collection
- Check physical condition of tape
- Capture:
  - Call number
  - Tape Type
  - Tape Length
  - Sound Type
  - Condition
  - Performances of special interest





# Digital Curation Lab

- Mac Pro workstation set up for cassette digitization by Fondren IT (includes storage for project)
- Cassette tape decks from Digital Media Commons

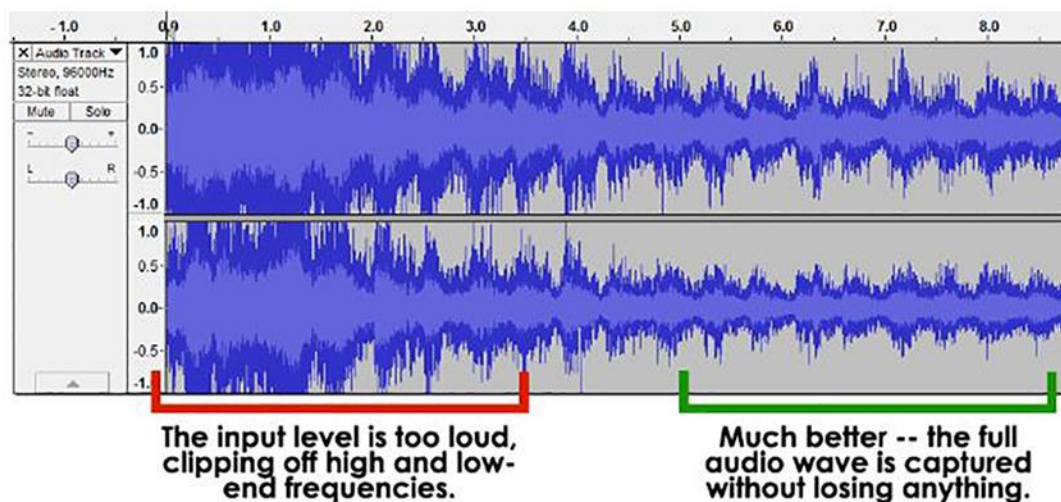


# Requirements

- Audacity software
- Key is that we are capturing cassettes
- Master: WAV format, 16 bit/44.1 kHz (cassette tapes typically do not store higher than CD quality audio)
- Access: MP3, delivery via streaming server at 320 kbps

# Audio digitization workflow & training

- Metadata Coordinator prepared workflow and trained team; bulk of the reformatting done by:
  - Archivist
  - Access Services staff
- Use Audacity to digitize performances
  - Monitor volume to avoid clipping
  - Remove silence between tape sides
  - Normalize audio to -0.5 dB
  - Perform spot checks of audio at 15 minute intervals



# Workflow

- Remove the write protection tabs on the tapes
- Match each tape to (label title) to performance program (PDF)
- For any tape without a corresponding performance program (PDF), enter descriptive metadata into worksheet
- Do NOT use DOLBY noise reduction (NR) functions
- Make sure tape is rewound to beginning of side A
- Determine a reasonable audio level prior to digitization
- While tape is digitizing confirm performance metadata in tracking spreadsheet (compare to online program PDF)

# Embedded metadata based on FADGI

- WAV files (BEXT & INFO-CHUNK)

- Description
- File Originator
- Creation Date
- Digitization History
- Artist
- Copyright
- Genre
- Medium
- Name
- Subject
- Software

- MP3 files

- Title
- Creator
- Date
- Genre
- Copyright note

# Metadata (IR)

- Metadata for sound recordings
  - dc.title
  - dc.date
  - dc.contributor.performer
  - dc.contributor.composer
  - dc.description.abstract (playlist)
  - dc.digitization.specifications
  - dc.format.digitalOrigin
  - dc.format.extent
  - dc.type.dcmi
  - dc.type.genre
- dc.subject (specific to Shepherd School performances)
  - Graduate recital
  - Undergraduate recital
  - Undergraduate and graduate recital
  - Guest artist recital
  - Guest artist lecture
  - Graduate lecture-recital
  - Faculty lecture-recital
  - Faculty recital
  - Children concerts
  - Ensemble



# Storage

- Access files (MP3s) can be stored in the public-online repository (backed up by robust local systems)
- Master WAV files in offline storage /cloud storage to be determined



# Project status and remaining steps

- 161 known performances in 1990
- 63 performances with audio cassettes
- Digitization completed
- WAV master files: 45 GB
- 71.3 hours playing time
- Batch processing final QC review and MP3s
- Ingest audio files into institutional repository
- Storage of cassette tapes
- Recommendations for larger collection

# Intellectual control

## Item Details

Item Information   A Look Inside   Catalog Record

**Title:** Senior recital [sound recording]  
**Author:** Arado, Renata, instrumentalist.  
**Summary/Contents:** [Look Inside](#)  
**Publisher:** Rice University,  
**Pub date:** 1990.  
**Physical Description:** 1 audiocassette : analog, stereophonic, Dolby processed  
**Item info:** 1 copy available at Fondren.  
**Contents:** [Partita no. 2 in D minor / Johann Sebastian Bach -- Sonata in A minor, op. 105 / Robert Schumann -- Sonata no. 3 for solo violin / Eugene Ysaÿe -- Microtono \(1989\) / Joan Guinjoan -- Havanaise, op. 93 / Camille Saint-Saëns.](#)

## Individual Holdings

**Call Number:** CASS 901027  
**Item Format:** Cassette  
**Location/Due Date:** Fondren - Circulation Desk - 1st floor (Nearby items on shelf)

- Current catalog record for each performance
  - Location of physical cassettes to change from access services to archives
  - Missing tapes identified during project
  - Deaccession of cassette tapes?

# Final Goals for Project

- Immediate goal: to work through the backlog of performances on cassettes
  - Digitization of remaining cassette performances through 2002
  - Determine treatment of cassettes once the performances are digitized
  - Evaluation of long-term storage options for master WAV files
- Additional goal: planning for preservation and providing online access to 344 performances on CDs (2002-?)
- Consider methods of making interactive playlists in IR
- Student worker with music background to enrich metadata with LOC composer names

# Project Team

Mary Brower: Music Reference Librarian

Scott Carlson: Metadata Coordinator

Keith Chapman: Music Cataloger

Arnold Chee: Fondren IT

Dara Flinn: Archivist/Special Collections Librarian

Amanda Focke: Assistant Head, Special Collections and Archives

Sue Garrison: Access Services Manager

Ying Jin: Application Programmer

Monica Rivero: Digital Curation Coordinator

Access Services Staff:

Michael Chiles

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# Thank you!

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