Title
Center for Music Experiment: Creating a Digital Collection

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Reser, Greg

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Peer reviewed
Center for Music Experiment

KIVA, 1976

Deep Listening Class
CME History

Army-era Quonset huts converted to CME studios, early 1970s

Bertram Turetzky

Conlon Nancarrow, John Cage, Roger Reynolds
Pacific Rim Festival
Project Objectives

• Preserve the CME recordings

• Make them available through the Digital Library Collections website
Timeline

Jan – Sept 2008
Planning

Sept 2008 – Jan 2010
Digitization

Oct 2008 – Nov 2010
Description

June 2010 – Mar 2011
Ingest, Assembly Plan, Object Build
Collaboration

- Arts Library
- Metadata Services
- Information Technologies
- Digital Library Program

EMS Synthi AKS synthesizer, early 1970s.
Digitization

- 340 reel to reel tapes
- 650 cassettes
- 24 videotapes
- 1,644 sound files
- 800 gigabytes total
Digitization

Treasure Hunt

[Image of a reel-to-reel tape with handwritten notes]

<table>
<thead>
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<th>Cut #</th>
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<th>Tail out</th>
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Composer [Name]
Title ______________________
Performers __________________

Speed [Speed]
Amount of Header ___
Time ___

Type of recording ______________________

Remarks (program notes)

1: (1) →
2: (3) →
3: (2) ←
4: (4) ←
Digitization

Treasure Hunt
Moog and Tape Music Studio, 1972

Image: Warren Burt
Digitization

Treasure Hunt

SOMC WATER
4 TRACKS
FOR MIX
M. REDOLFI

The following is made in lieu of all warranties, express or implied.
Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be altered except by an agreement signed by officers of seller and manufacturer.

Magnetic Audio/Video Products Division: 3M
St. Paul, Minnesota 55101
Digitization
Digitization

Equipment
Digitization

File Naming

cme1897_PME-multiphonics-meeting-1_1.wav
Digitization

Metadata Capture
Digitization

Collection Curiosities

Sonic Waters performance location, La Jolla Cove
Digitization

Collection Curiosities

Extended Vocal Techniques
Digitization

Collection Curiosities

Mel Blanc
Digitization

Conclusion

David Dunn: Oracles, installation and preparation at La Jolla Tidepools

Images: Warren Burt
Metadata

Sources

RAINforest
- David Tudor
CME 2/2/77
7½ ips ½ Tr (Binaural) (Master) Tailout
Engineers - David Dunn Warren Burt

CONVERSATIONS AROUND THE PACIFIC RING
PACIFIC RING FESTIVAL
MAY, 1986

CENTER FOR MUSIC EXPERIMENT
UNIVERSITY OF CALIFORNIA, SAN DIEGO
Metadata
Preparation

• Set data standards
• Map spreadsheet
• Clean up spreadsheet
• Create EAD
• Import to cataloging tool
• Clean up import
## Metadata

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</table>
Metadata

Audio Engineer

Descriptive fields
- Composer (author)
- Date of the original recording
- Name of piece (title)

Technical data, software generated
- Audio format
- Channel
- Checksum
- Data rate
- Date of the sound file creation
- Duration (by fractions of a second, i.e., Total Time: 113000 = 1:53)
- Frequency
- Sampling rate

Loops Rehearsal
Metadata
Metadata

Archivist’s Toolkit

• Set Digital Object structure
• Set workflow
• Develop cataloging guides
• Train catalogers
Metadata

Archivist’s Toolkit

- Resolve name variants
- Parse names
- Assign name roles
- Resolve subject variants
- Create complex structure
- Link to digital objects
Metadata

Complex Objects

- Conference
  - Lecture
    - part 1
    - part 2
Metadata

Complex Objects

• Conference
  • Lecture
    • part 1
    • part 2
• Demonstration
  • part 1
  • part 2
Metadata

Complex Objects

- Conference
  - Lecture
    - part 1
    - part 2
- Demonstration
  - part 1
  - part 2
- Concert
  - part 1
  - part 2
  - part 3
  - part 4
Metadata
Metadata
Challenges

• Missing metadata
• Inconsistent metadata
• Incorrect event groupings
Metadata

Archival Resource Keys

http://libraries.ucsd.edu/ark:/20775/bb8772530v/1-1.wav
http://libraries.ucsd.edu/ark:/20775/bb8772530v/1-2.wav
http://libraries.ucsd.edu/ark:/20775/bb8772530v/1-3.wav
http://libraries.ucsd.edu/ark:/20775/bb8772530v/1-4.wav
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<td>Betsy Joanis Colloquium</td>
<td><a href="http://libraries.ucsd.edu/20775bb74073301">http://libraries.ucsd.edu/20775bb74073301</a></td>
<td>March 14, 1979</td>
<td>2 parts</td>
<td>graser</td>
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<tr>
<td>Blo-Theater</td>
<td><a href="http://libraries.ucsd.edu/20775bb5399430p">http://libraries.ucsd.edu/20775bb5399430p</a></td>
<td>February 1, 1979</td>
<td>2 parts</td>
<td>graser</td>
</tr>
<tr>
<td>Black Crown Ceremony</td>
<td><a href="http://libraries.ucsd.edu/20775bb907810m">http://libraries.ucsd.edu/20775bb907810m</a></td>
<td>March 1, 1975</td>
<td>1 part</td>
<td>graser</td>
</tr>
<tr>
<td>Black Ivory</td>
<td><a href="http://libraries.ucsd.edu/20775bb2698792d">http://libraries.ucsd.edu/20775bb2698792d</a></td>
<td>February, 1972</td>
<td>2 parts</td>
<td>graser</td>
</tr>
<tr>
<td>Black Noise</td>
<td><a href="http://libraries.ucsd.edu/20775bb2698389n">http://libraries.ucsd.edu/20775bb2698389n</a></td>
<td>February, 1972</td>
<td>2 parts</td>
<td>graser</td>
</tr>
<tr>
<td>Bridges</td>
<td><a href="http://libraries.ucsd.edu/20775bb7748831y">http://libraries.ucsd.edu/20775bb7748831y</a></td>
<td>January 10, 1973</td>
<td>2 parts</td>
<td>graser</td>
</tr>
<tr>
<td>Broadcast Concert</td>
<td><a href="http://libraries.ucsd.edu/20775bb6935648w">http://libraries.ucsd.edu/20775bb6935648w</a></td>
<td>between 1973 and 1950</td>
<td>3 parts</td>
<td>graser</td>
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<tr>
<td>Broadcast Concert (II)</td>
<td><a href="http://libraries.ucsd.edu/20775bb61103902">http://libraries.ucsd.edu/20775bb61103902</a></td>
<td>1973</td>
<td>1 part</td>
<td>graser</td>
</tr>
</tbody>
</table>
Assembly Plan

- Assembly Plan = specification process to normalize metadata (descriptive, technical, rights, structural) for assembly into the UCSD DAMS.
Digital Asset Management System (DAMS)

- DAMS = locally developed digital repository designed to store and manage the digital assets of the UCSD Libraries.

- It is an expression of its XDRE (eXtensible Digital Resource Environment) framework that includes RDF, Solr, JSON, SRB, ARKs, and a Java-based development platform.
Arts Library

Selections from the Arts Library collections including images, film and video.

- **Center for Music Experiment Recordings Archive**
  Audio recordings from the Center for Music Experiment (CME), established at UCSD in 1978 as a research center for experimental and computer music. CME sponsored conferences, compositions and performances until 1993.

- **Visual Resources Collection**
  Rich resource providing a world of images relating to the Humanities.

- **Film and Video Collection**
  Educational and amateur moving image formats from the 1930’s to the 1970’s.

Mandeville Special Collections Library

Selections from Mandeville collections including manuscripts, maps, photographs, art works, archives, and other primary materials.

- **Armed Revolutionary Organizations of Mexico**
  Collection comprised of ephemera, periodicals and manuscript materials created between 1965 and 1998 by twenty-two separate revolutionary groups in Mexico.

- **The Missions of Alta California**
  The missions of Alta California were founded for the purpose of Christianizing the American Indian population in those vicinities. The first of the Franciscan missions—San Diego de Alcalá—was founded by...mers

- **Baja California Collection**
  Selections documenting the culture, history and natural history of Baja California including the work of photographers Harry Gruyaert, Howard Gulich, Marquis McDonald.

- **Spanish Civil War Collection**
  Selections documenting Spain’s Second Republic (1922-1936), the Spanish Civil War (1936-1939) and the post-War years of the 1950s including Call To Arms, Adhesive Propaganda, Shot of War: The Visual Front.
Redesigning the Digital Object Viewer
Acknowledgements:

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- **Administrative Metadata Manager**: Brad Westbrook

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- **IT Department**: Richard Caasi, Vivian Chu, Esme Cowles, Declan Fleming, Tim Marcon, Joy Sargis, Longshu Situ, Ron Stanonik, Huawei Weng

- **Digital Library Steering Committee**: Luc Declerck, Catherine Friedman, Martha Huska
Recording Studio Equipment

- Studer, Otari & Tascam reel-to-reel decks
- Panasonic DAT deck
- Tascam high-definition digital recorder
- Sony industrial Betamax w/Sony PCM digital interface
- Nakamichi & Denon cassette decks
- ELP laser & Esoteric Audio turntables
- Cedar Declickler LP noise-reduction module
- Dolby SR & dbx tape noise reduction systems
- MOTU 896HD & Traveler mk3 digital interfaces
- Dynaudio studio monitors w/subwoofer
- Mac Pro workstation w/PEAK Pro & Soundtrack Pro