

UC San Diego

Presentations and Posters

Title

Center for Music Experiment: Creating a Digital Collection

Permalink

<https://escholarship.org/uc/item/05h9s3t0>

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Peer reviewed

University of California, San Diego
Center for Music Experiment
creating a digital collection

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Roger Reynolds

Center for Music Experiment



KIVA, 1976

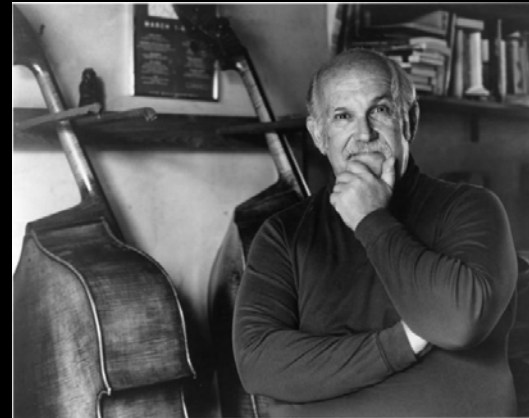


Deep Listening Class

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



Fatty Acid - July 14, 1974

Timeline

Jan – Sept 2008

Planning

Sept 2008 –
Jan 2010

Digitization

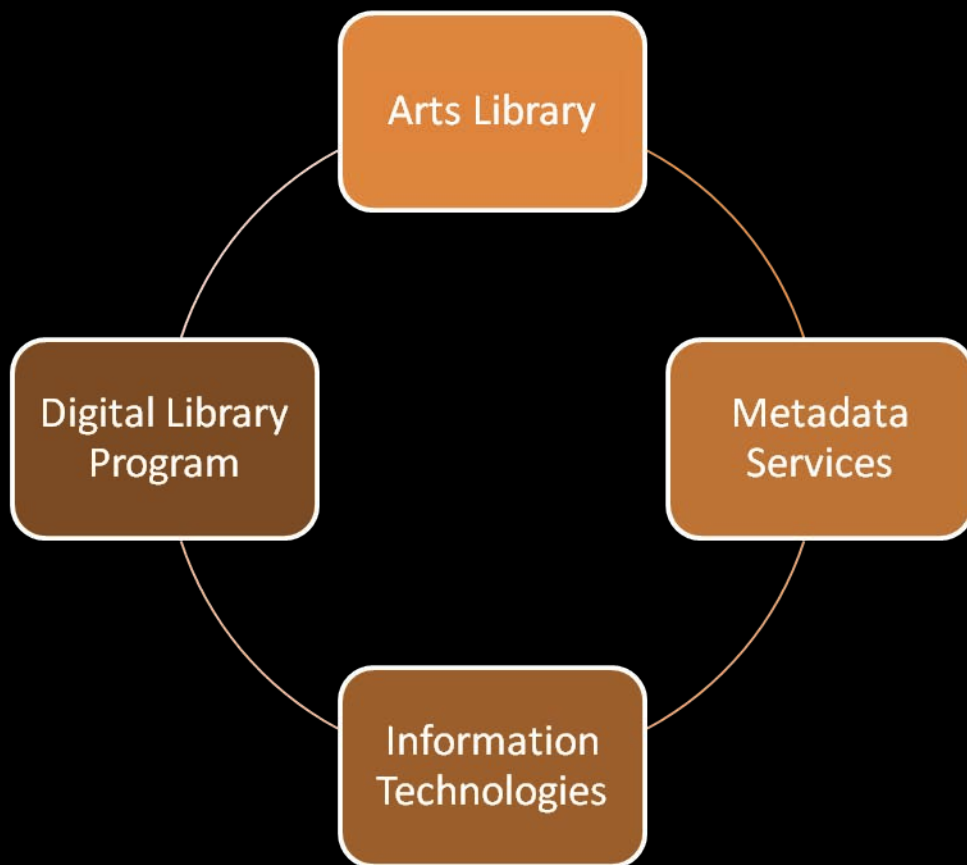
Oct 2008 –
Nov 2010

Description

June 2010 –
Mar 2011

Ingest,
Assembly
Plan,
Object
Build

Collaboration



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



189050

Cut # _____ Head out _____ Tail out _____ Date _____

Composer Van Rode Title _____

Performers _____

Speed 15 ips Amount of Header _____ Time _____

Type of recording _____

Remarks (program notes)

Ch. 1: (1) →

2: (3) →

3: (2) ←

4: (4) ←

Digitization

Treasure Hunt





Moog and Tape Music Studio, 1972

Digitization

Treasure Hunt



Digitization





Digitization Equipment





Digitization

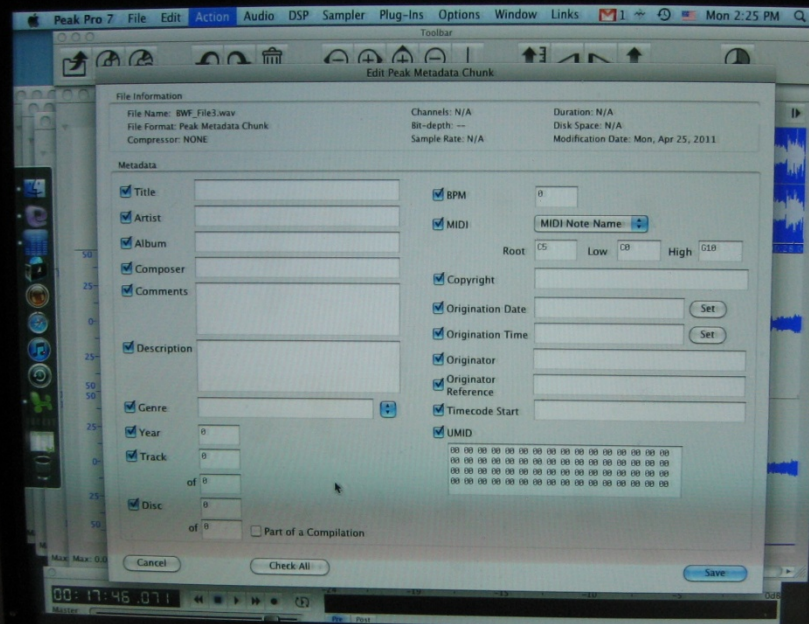
File Naming

cme1897_PME-multiphonics-meeting-1_1.wav



New Music Ensemble

Digitization Metadata Capture





Digitization

Collection Curiosities



Sonic Waters performance location, La Jolla Cove



Digitization

Collection Curiosities



Extended Vocal Techniques



Digitization

Collection Curiosities



Mel Blanc



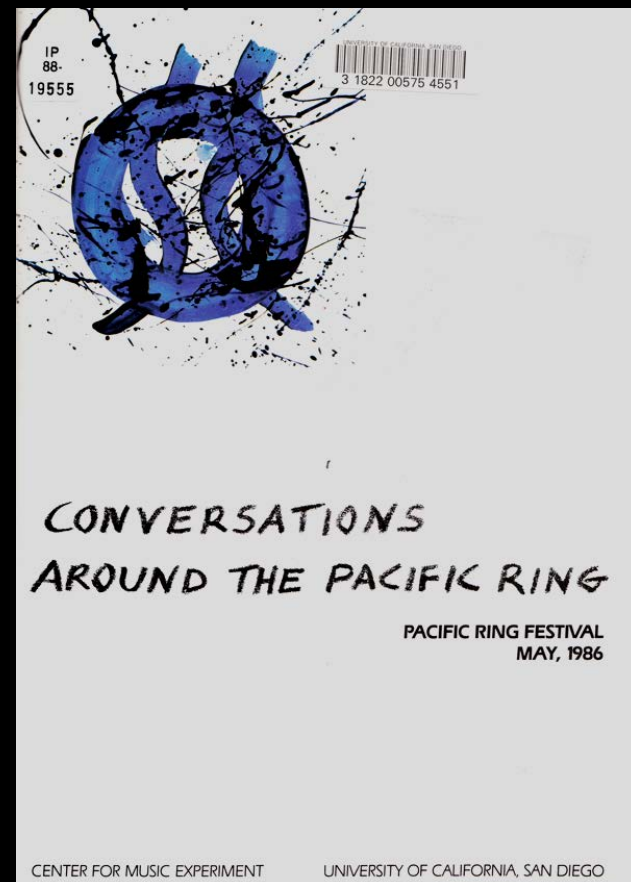
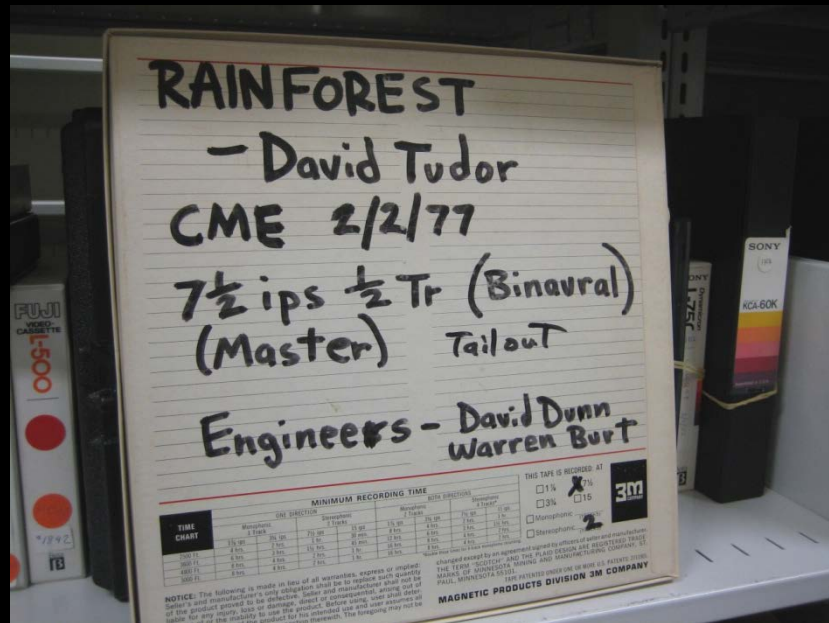
Digitization

Conclusion



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

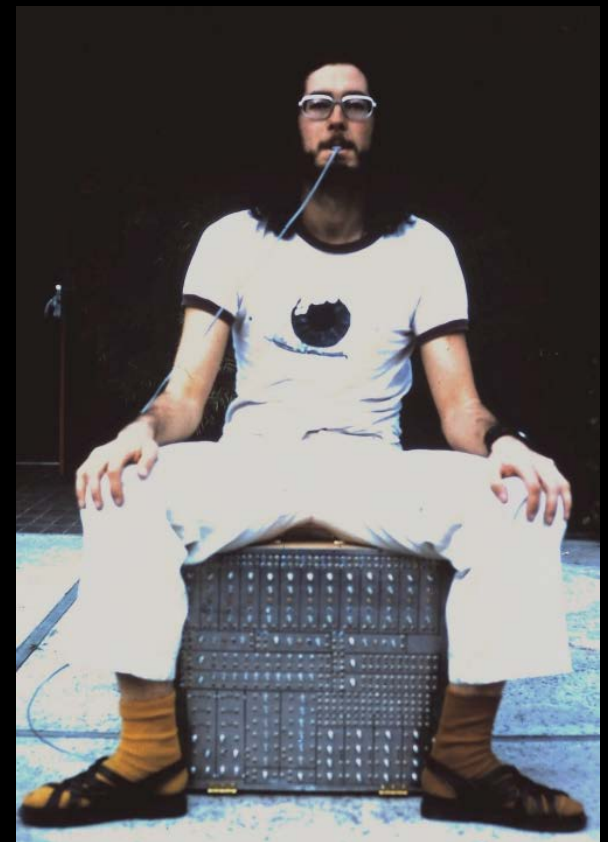
Metadata Sources





Metadata Preparation

- Set data standards
- Map spreadsheet
- Clean up spreadsheet
- Create EAD
- Import to cataloging tool
- Clean up import



Warren Burt and Aardvarks IV - San Diego, 1975

Metadata

	A	B	C	E	F	M	D
1	Batch	Key	Title	Event	Artist Reformatted	Revised File Name	
1367	Batch2	Batch2: 525	Improvisation, Computers and the Unconscious Mind, part 1		Teitelbaum, Richard	cme1793A_Teitelbaum-Improvisation_19.wav	04
1368	Batch2	Batch2: 656	Improvisation, Computers and the Unconscious Mind, part 2		Teitelbaum, Richard	cme1793A_Teitelbaum-Improvisation_20.wav	04
1369	Batch2	Batch2: 323	Improvisation concert with Richard Teitelbaum, part 1		Teitelbaum, Richard	cme1793B_Teitelbaum-Improvisation_21.wav	04
1370	Batch2	Batch2: 571	Improvisation concert with Richard Teitelbaum, part 2		Teitelbaum, Richard	cme1793B_Teitelbaum-Improvisation_22.wav	04
1371	Batch2	Batch2: 431	HRTF Stereophony: Theory, Research Issues, and Applications, part 1		Begault, Durand	cme1795_Begault-HRTP_23.wav	04
1372	Batch2	Batch2: 6	HRTF Stereophony: Theory, Research Issues, and Applications, part 2		Begault, Durand	cme1795_Begault-HRTP_24.wav	04
1373	Batch2	Batch2: 98	Poetry reading, part 1		Creely, Robert	cme1790_Creely-poetry_1.wav	04
1374	Batch2	Batch2: 544	Poetry reading, part 2		Creely, Robert	cme1790_Creely-poetry_2.wav	04
1375	Batch2	Batch2: 732	The NEXT Music Kit		Jaffe, David	cme1791B_Jaffe-NeXT_1.wav	04
1376	Batch2	Batch2: 380	Performance Works and Poems, part 2		Mac Low, Jackson	cme1796A_Low-Performance_1.wav	04
1377	Batch2	Batch2: 200	Performance Works and Poems, part 1		Mac Low, Jackson	cme1796B_Low-Performance_2.wav	04
1378	Batch2	Batch2: 150	Performance Works and Poems, part 2		Mac Low, Jackson	cme1796B_Low-Performance_3.wav	04
1379	Batch2	Batch2: 152	Printing Music with Computers, part 1		Bowles, Garrett	cme1797A_Bowles-Printing_1.wav	04
1380	Batch2	Batch2: 84	Printing Music with Computers, part 2		Bowles, Garrett	cme1797A_Bowles-Printing_2.wav	04
1381	Batch2	Batch2: 522	Printing Music with Computers, part 1		Bowles, Garrett	cme1797B_Bowles-Printing_3.wav	04
1382	Batch2	Batch2: 246	Yamaha HX-1 Electone Concert, part 1		Akatsuka, Hiromi; Lytle, Cecil	cme1798_Akatsuka-Yamaha_1.wav	04
1383	Batch2	Batch2: 538	Yamaha HX-1 Electone Concert, part 2		Akatsuka, Hiromi; Lytle, Cecil	cme1798_Akatsuka-Yamaha_2.wav	04
1384	Batch1	101	NeXT lecture		Larouche, Jean	cme1799_Larouche-NeXT_1.wav	04
1385	Batch1	372	Metanola		Thompson, Robert Scott	cme1800_Thompson-Metanola_1.wav	04
1386	Batch2	Batch2: 556	Redefining Experimentalism, part 1		Oliveros, Pauline	cme1801_Oliveros-Experimentalism_1.wav	04
1387	Batch2	Batch2: 49	Redefining Experimentalism, part 2		Oliveros, Pauline	cme1801_Oliveros-Experimentalism_2.wav	04
1388	Batch1	204	Semiotics of Music in Tristes Tropicos		Coelho de Souza, Rodolfo	cme1802_Souza-Semiotics_1.wav	04
1389	Batch2	Batch2: 512	Poetry reading, part 1		Baraka, Amiri	cme1803_Baraka-poetry_1.wav	04
1390	Batch2	Batch2: 30	Poetry reading, part 2		Baraka, Amiri	cme1803_Baraka-poetry_2.wav	04
1391	Batch1	299	blw/m	Music from LIPM, part I	Calzon, Miguel (composer); Zelickman, R	cme1804_Calzon-blw-m_1.wav	04
1392	Batch1	312	con.en.re	Music from LIPM, part I	Calzon, Miguel	cme1804_Calzon-con-en-re_2.wav	04
1393	Batch1	134	Cygnus X-1	Music from LIPM, part I	Calzon, Miguel	cme1804_Calzon-Cygnus-X-1_3.wav	04
1394	Batch1	206	Divertimento II (El Reloj)	Music from LIPM, part I	Martin Vega, Julio	cme1804_Divertimento-II_4.wav	04
1395	Batch1	336	Mutacion II	Music from LIPM, part I	Kropfl, Francisco	cme1804_Kropfl-Mutacion-II_5.wav	04
1396	Batch1	85	Orillas	Music from LIPM, part I	Kropfl, Francisco	cme1804_Kropfl-Orillas_6.wav	04
1397	Batch1	198	Busqueda	Music from LIPM, part I	Lopez Lezcano, Femado	cme1804_Lezcano-Busqueda_7.wav	04
1398	Batch1	447	La Maga o el Angel de la noche	Music from LIPM, part I	Saitta, Carmelo	cme1804_Saitta-La-maga-angel_8.wav	04
1399	Batch1	345	Mudfish	Music from LIPM, part II	Calzon, Miguel	cme1805_Calzon-Mudfish_9.wav	04
1400	Batch1	687	StrQ, 1st movement	Music from LIPM, part II	Calzon, Miguel (composer)	cme1805_Calzon-StrQ_10.wav	04
1401	Batch1	686	StrQ, 2nd movement	Music from LIPM, part II	Calzon, Miguel (composer)	cme1805_Calzon-StrQ_11.wav	04
1402	Batch1	150	Textos	Music from LIPM, part II	Calzon, Miguel (composer)	cme1805_Calzon-Textos_12.wav	04
1403	Batch1	65	Cuenca, presagio de pajaros	Music from LIPM, part II	Kropfl, Francisco	cme1805_Kropfl-Cuenca_13.wav	04
1404	Batch1	351	Estudio III (Hot 'n cold <beta version>)	Music from LIPM, part II	Lopez Lezcano, Fernando	cme1805_Lezcano-Estudio-III_14.wav	04
1405	Batch1	75	Dialogo con mi anciano	Music from LIPM, part II	Di Liscia, Pablo	cme1805_Liscia-Dialogi-anciano_15.wav	04
1406	Batch1	208	Transformaciones modulares	Music from LIPM, part II	Pascaner, Hugo	cme1805_Pascaner-Transformaciones_16.wav	04
1407	Batch1	133	El Adios (L'Adieu)	Music from LIPM, part II	Pozzati, Guillermo	cme1805_Pozzati-El-adios_17.wav	04
1408	Batch1	450	Estudio II	Music from LIPM, part II	Rapp, Jorge	cme1805_Rapp-Estudio-II_18.wav	04
1409	Batch2	Batch2: 360	Lecture, part 1		Jameson, Frederic	cme1807_Jameson-lecture_1.wav	04
1410	Batch2	Batch2: 180	Lecture, part 2		Jameson, Frederic	cme1807_Jameson-lecture_2.wav	04
1411	Batch1	692	1st piece		Kazue Sawai Koto Ensemble	cme1808_Kazue-Sawai_1.wav	04
1412	Batch1	691	3rd piece		Kazue Sawai Koto Ensemble	cme1808_Kazue-Sawai_2.wav	04

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

Digital Objects Record 204 of 503

Title: Software for sound synthesis. (continued); Synthesis Techniques. (beginning)

Basic Description | Names & Subjects | Notes

Label: Part 2 of 21

Dates

Date Expression:

Date Begin: End:

Component Identifier: cme1520M

Language Code:

File Versions

Use Statement	URI
Audio-Master	http://libraries.ucsd.edu/ark:/20775/bb7782761s/1-30.wav

Buttons: Add Child, Add Sibling, Delete Node, Export METS, Export MARC, Export MODS, Export DC Dublin Core

Navigation: First, Previous, Next, Last, Reports, Close, Save

Created: Apr 1, 2010 by greser | Modified: Dec 7, 2010 by greser | Record Number: 1407



Metadata

Archivist's Toolkit

- Set Digital Object structure
- Set workflow
- Develop cataloging guides
- Train catalogers



Janos Negyesy



Metadata

Archivist's Toolkit

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



Chris Chafe



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

Digital Objects Record 193 of 503

Title: Improvisational Mode in Contemporary Art and Culture

Basic Description | Names & Subjects | Notes

Label: 9 components, 29 parts total

Dates
Date Expression: between May 11 and 14, 1983
Date Begin: 1983 End: 1983

Restrictions Apply

Object Type: sound recording

Digital Object ID: http://libraries.ucsd.edu/ark:/20775/bb74414594

EAD Dao Acutate: onRequest

EAD Dao Show: new

Language Code: [dropdown]

File Versions

Use Statement	URI
---------------	-----

Buttons: Add File Version, Remove File Version

Export Options: METS, MARC, MODS, DC Dublin Core

Navigation: First, Previous, Next, Last, Reports, Close, Save

Created: Apr 8, 2010 by greser | Modified: Jul 23, 2010 by greser | Record Number: 2189

Metadata

Challenges

- Missing metadata
- Inconsistent metadata
- Incorrect event groupings

189050

Cut # _____ Head out _____ Tail out _____ Date _____

Composer Van Roden Title _____

Performers _____

Speed 15 ips Amount of Header _____ Time _____

Type of recording _____

Remarks (program notes)

Ch. 1: (1) →

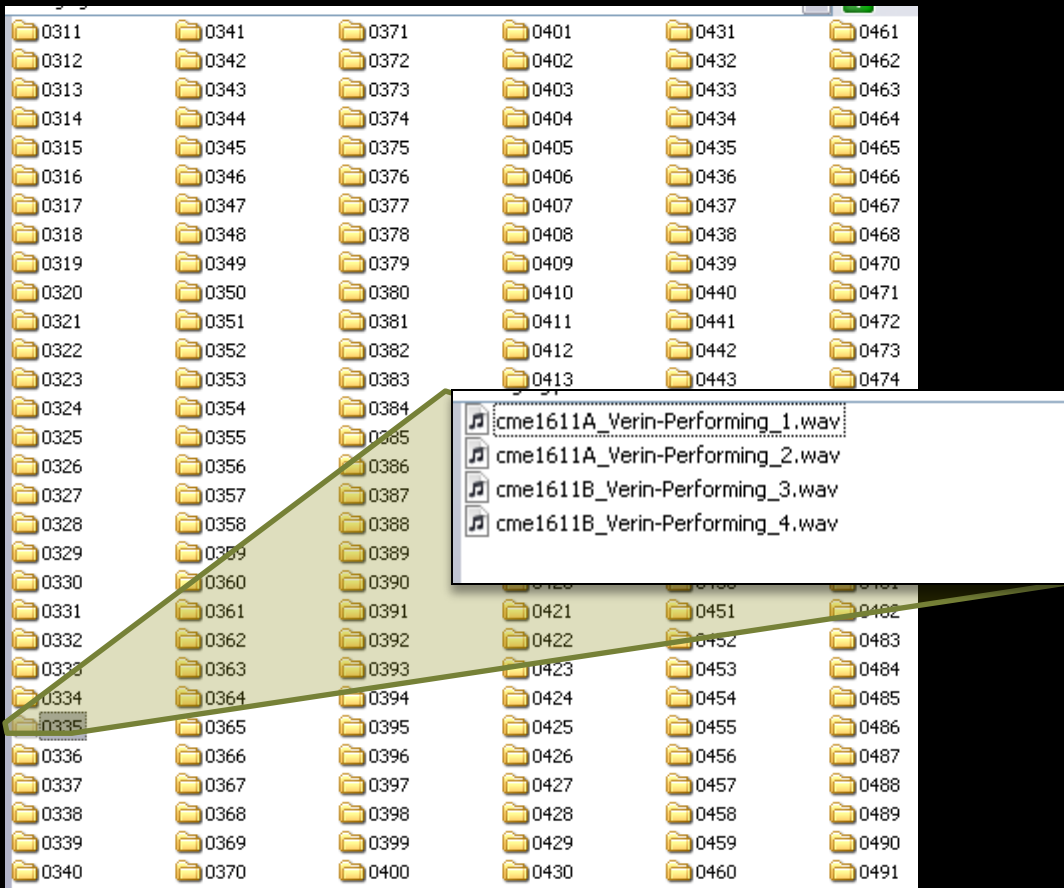
2: (3) →

3: (2) ←

4: (4) ←

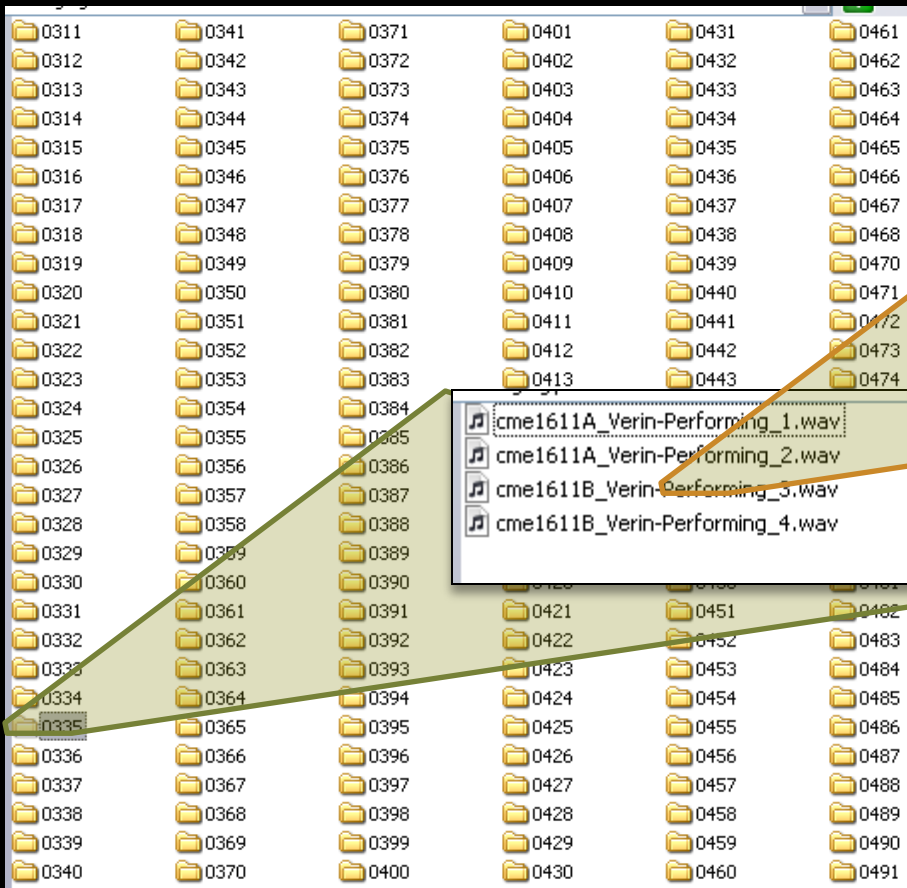
Metadata

File Directory



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>

Metadata

Archivists' Toolkit - 2.0.0 - update 8

File Import Setup Reports Tools Help

Search List All New Record Reports Delete Export MARC Export METS Export MODS Export Dublin Core Filter search results

Names
Subjects
Accessions
Resources
Digital Objects

Digital Objects

503 Record(s) found for search "list all"

Title	Digital Object ID	Date	Label	Last Updated...
?+ (Question mark Plus)	http://libraries.ucsd.edu/ark:/20775/bb27315187	between 1973 and 1990	2 parts	greser
^ (Pyramid)	http://libraries.ucsd.edu/ark:/20775/bb82947115	May 29, 1987	1 part	greser
^ (Pyramid), a violin controlled env...	http://libraries.ucsd.edu/ark:/20775/bb36871602	May 29, 1987	1 part	greser
Aaron Cicourel	http://libraries.ucsd.edu/ark:/20775/bb2185440k	November 19, 1981	3 parts	greser
Acoustics of Nonlinear Processe...	http://libraries.ucsd.edu/ark:/20775/bb6827122h	April 15, 1974	2 parts	greser
Akone1, no. 2, (tape part only)	http://libraries.ucsd.edu/ark:/20775/bb10250192	between 1973 and 1990	1 part	greser
Akone1, no. 2, flute & tape	http://libraries.ucsd.edu/ark:/20775/bb1059149r	between 1973 and 1990	1 part	greser
All of Music Theater Concert	http://libraries.ucsd.edu/ark:/20775/bb7509720h	between 1973 and 1990	1 part	greser
All One Duet II	http://libraries.ucsd.edu/ark:/20775/bb4642799k	June 26, 1977	1 part	greser
Alvin Lucier Colloquium	http://libraries.ucsd.edu/ark:/20775/bb4403890k	March 22, 1978	2 parts	greser
America's Finest City	http://libraries.ucsd.edu/ark:/20775/bb2902169b	1984	1 part	greser
Amtrak Journey (to the heartland);...	http://libraries.ucsd.edu/ark:/20775/bb2492611q	May 9, 1981	2 parts	greser
Analysis of Complex Musical Text...	http://libraries.ucsd.edu/ark:/20775/bb9250352z	January 21, 1977	1 part	greser
Angels	http://libraries.ucsd.edu/ark:/20775/bb0956761t	between 1973 and 1990	1 part	greser
Apertura (for X), Opus Incertain, Q...	http://libraries.ucsd.edu/ark:/20775/bb18100117	December 7, 1984	1 part	greser
Arditti Quartet performs works by ...	http://libraries.ucsd.edu/ark:/20775/bb6792988b	1988	1 part	greser
Arnold Zaslav Interview	http://libraries.ucsd.edu/ark:/20775/bb6144517h	1973	1 part	greser
Artificial Larynx Demonstration	http://libraries.ucsd.edu/ark:/20775/bb9045572t	ca. 1975	4 parts	greser
Artist's Studio	http://libraries.ucsd.edu/ark:/20775/bb0751982f	January 21, 1982	1 part	greser
Atem	http://libraries.ucsd.edu/ark:/20775/bb3277599e	between 1969 and 1970	1 part	greser
Atomic Cafe: Solo	http://libraries.ucsd.edu/ark:/20775/bb8226450d	January 30, 1986	1 part	greser
Attention To, Attention In the Fine ...	http://libraries.ucsd.edu/ark:/20775/bb2799781g	February 8, 1979	2 parts	greser
Back examples	http://libraries.ucsd.edu/ark:/20775/bb1025020w	between 1973 and 1990	1 part	greser
Baker Elementary School Recital	http://libraries.ucsd.edu/ark:/20775/bb6554080s	October 18, 1988	2 parts	greser
Bamboola Squared	http://libraries.ucsd.edu/ark:/20775/bb4676930q	1984	1 part	greser
Beach Singularity	http://libraries.ucsd.edu/ark:/20775/bb29362991	October 14, 1977	1 part	greser
Beach Singularity (multi-media)	http://libraries.ucsd.edu/ark:/20775/bb4881710v	October 14, 1977	2 parts	greser
Beckenstueck (Trajectories)	http://libraries.ucsd.edu/ark:/20775/bb0035249g	1970	1 part	greser
Ben Johnston's Microtonal Theory	http://libraries.ucsd.edu/ark:/20775/bb8294712p	February 6, 1975	2 parts	greser
Betsy Jolas Colloquium	http://libraries.ucsd.edu/ark:/20775/bb74073301	March 14, 1979	2 parts	greser
Bio-Theater	http://libraries.ucsd.edu/ark:/20775/bb5359530p	February 6, 1975	2 parts	greser
Black Crown Ceremony	http://libraries.ucsd.edu/ark:/20775/bb9079701m	March 1, 1976	1 part	greser
Black Ivory	http://libraries.ucsd.edu/ark:/20775/bb2560872d	February, 1972	2 parts	greser
Black Noise	http://libraries.ucsd.edu/ark:/20775/bb2697389n	between 1973 and 1990	3 parts	greser
Bridges 1	http://libraries.ucsd.edu/ark:/20775/bb7748631v	February 10, 1973	2 parts	greser
Broadcast Concert	http://libraries.ucsd.edu/ark:/20775/bb6963640w	between 1973 and 1990	4 parts	greser
Broadcast Concert (II)	http://libraries.ucsd.edu/ark:/20775/bb61103902	1973	7 parts	greser

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

libraries.ucsd.edu/digital

LIBRARIES



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- Help

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[Libraries Home](#) > Digital Library Collections

Digital Library Collections (DLC)



Title: [Topping off UCSD Central University Library, cDecember 19, 1969]
Creator: SIO Photographic Laboratory



Search

[Advanced Search](#) [Search Tips](#)

Browse

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- [By Collection/Library](#)
- [By Format](#)

Search over 35,000 images, documents and video files from the UCSD Libraries.

This site is only supported by [Mozilla Firefox](#) at this time.

[DLC FAQ](#) | [DLC About](#) | [DLC Feedback](#)

UCSD IP Address Restricted

Libraries Home " > Digital Library Collections " > Browse by Collection/Library

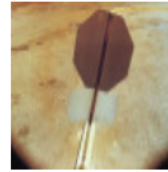
Arts Library

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 1972 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 ...[more](#)



Baja California Collection

Selections documenting the culture, history and natural history of Baja California including the work of photographers [Harry Crosby](#), [Howard Gulick](#), [Marquis McDonald](#).



Spanish Civil War Collection

Selections documenting Spain's Second Republic (1931-1936), the Spanish Civil War (1936-1939) and the post-War years of the 1940s including [Call To Arms](#), [Adhesive Propaganda](#), [Shots of War](#), [The Visual Front](#).

Libraries Home > Digital Library Collections > Browse by Collection/Library > Center for Music Experiment Archive

Search

[input]

Search Within Results [dropdown]

GO

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[Print Current Page](#)
[Search Tips](#)

Refine Your Search

- By Topic
- By Collection/Library
- By Format

GO

Digital Collections: Search Results

Displaying 1 to 20 of 503 results

1 2 3 4 5 6 7 8 9 10 Next >>

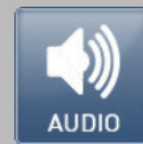
Sort by Relevance [dropdown]



^ (Pyramid) [Date: May 29, 1987]



^ (Pyramid), a violin controlled environment [Date: ...]



Aaron Cicourel [Date: November 19, 1981]



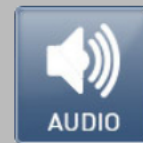
Acoustics of Nonlinear Processes in Brass Tone 15, ...



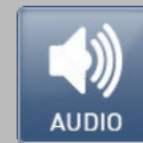
Akonel, no. 2, flute & tape [Date: between 1973 and ...]










Akonel, no. 2, (tape part only) [Date: between 1973 ...]




All of Music Theater Concert [Date: between 1973 ...]




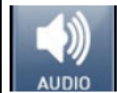
All One Duet II [Date: June 26, 1977]

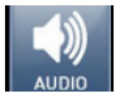
- ▲
-  AUDIO
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-  AUDIO
- ▼




AUDIO




 AUDIO


 AUDIO




Previous




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Zoom



Next



Close

Descriptive
Admin

Title:
Attention To, Attention In the Fine Arts

Digital Object URL and Metadata:
<https://bilbo.ucsd.edu/ark:/20775/bb2799781g>

Date:
February 8, 1979

Name/Creator:
Ingber--Lester--1941---Ingber, Lester, 1941---Speaker--spk
University of California, San Diego--Center for Music Experiment--University of California, San Diego. Center for Music Experiment.--Sponsor--spn

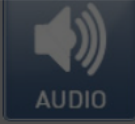
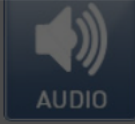
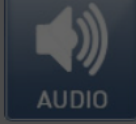
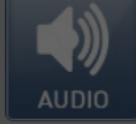
Topic(s):
Colloquiums

Collection:
[Center for Music Experiment Archive](#)

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-  AUDIO
 -  AUDIO
 -  AUDIO
 -  AUDIO
- Akonel, no. 2, flute & tape
[Date: between 1973 and ...

Akonel, no. 2, (tape part
only) [Date: between 1973
...

All of Music Theater Concert
[Date: between 1973 ...

All One Duet II [Date: June
26, 1977]

Redesigning the Digital Object Viewer

The screenshot shows the UC San Diego Libraries Digital Object Viewer interface. The main content area displays an audio player for "A Lexicon of Extended Vocal Techniques, Part 2 of 2". The player includes a large headphones icon with the word "AUDIO" below it, a progress bar showing 01:07 of 06:49, and navigation controls. To the right of the player is a table of contents for the "A Lexicon of Extended Vocal Techniques" collection, with "Part 2 of 2" selected. Below the player is a metadata section with tabs for "Brief" and "Full". The "Full" tab is active, showing the following information:

Title:	A Lexicon of Extended Vocal Techniques
Creator:	Galambos, Robert, 1914, speaker Ladefoged, Peter, speaker Livingston, Robert, speaker Smith, Timothy S., speaker
Date:	February 16, 1974
Copyright:	Copyright UC Regents

At the bottom of the page, there is a footer with contact information for UC San Diego, copyright notice for 2009-2010, and links for "Terms & Conditions" and "Feedback".

Single Video View
(SingleObjectVideo.jpg)

Complex Object, different file types
(ComplexObjectAudio.jpg)

Full Screen View
(FullScreenVideo.jpg)

Print View

ACTION: Discuss with ITD about branding (top of the page)



Acknowledgements:

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- **Digital Library Program:** Robin Chandler, Cristela Garcia-Spitz, Gabriela Montoya and Roger Smith
- **IT Department:** Richard Caasi, Vivian Chu, Esme Cowles, Declan Fleming, Tim Marconi, 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

UCSD Libraries' Digital Asset Management System (DAMS)

