



**WILLIAM AND GAYLE  
COOK MUSIC LIBRARY**  
LIBRARIES

IAML Congress  
Krakow, Poland  
15 July 2019

# Improving targeted discovery through a use case in music

**Rachael Cohen, Michelle Hahn, Chuck Peters**

INDIANA UNIVERSITY BLOOMINGTON

# INTRODUCTION



## Biographies:

Rachael Cohen, Discovery User Experience Librarian for Indiana University Bloomington, focuses her work on improving the user experience of IUCAT, the shared system-wide library catalog, and other resource discovery tools for the IU Libraries. Rachael's research interests include user experience, search query analysis, and discovery tools. She has published and presented nationally on topics related to these interests.

Michelle Hahn is currently Assistant Librarian, Sound Recordings Cataloger at Indiana University, Bloomington. Prior to that, she was Music Catalog Librarian and Interim Music Librarian at Southern Methodist University in Dallas, Texas. Michelle is Newsletter Editor for the Music Library Association (MLA), Assistant Web Editor for the International Association of Music Libraries and Documentation Centres (IAML), Social Media Coordinator for the Music OCLC Users Group (MOUG) and is Vice Chair/Chair-Elect for MOUG. Her publications and presentations have covered several aspects of her experiences with, and ideas in, librarianship. She holds degrees from Ohio University and Indiana University, Bloomington.

Chuck Peters is the Head of Music Cataloging in the William and Gayle Cook Music Library at Indiana University in Bloomington. In IAML, he is the Chair of the Libraries in Music Teaching Institutions Section. In the Music Library Association, he is the Coordinator of the Technical Services Interest Group and serves as the SirsiDynix Users Group Leader. In the Midwest Chapter of MLA, he chairs the Cataloging Committee. At IU Bloomington, he is the Adviser to the Students of Music Librarianship Group and supervises interns in the specialization program.





# BACKGROUND



# William and Gayle Cook Music Library

- Recognized as one of the largest academic music libraries in the world
- 1,000,000+ items
  - Strengths include:
    - 19th-century first or early editions of orchestral, chamber, and opera sources
    - Early keyboard and violin primary source materials
    - Black and Latin American music collections



**WILLIAM AND GAYLE  
COOK MUSIC LIBRARY**  
LIBRARIES



<https://images.iu.edu/item/1612>

# IUCAT – BLACKLIGHT

- Implemented May 2013
- Interface for SirsiDynix
- Shared public interface
  - 8 Campuses
  - 49 Libraries
  - +9,000,000 bibliographic records
- Other views already implemented:
  - Campus Views
  - Reserves
  - Browse
  - Kinsey



**WILLIAM AND GAYLE  
COOK MUSIC LIBRARY**  
LIBRARIES

[All Fields ▾](#)☐ Online Only[Advanced Search](#)[Browse](#)[Reserves](#)[Music Search](#)[Choose Search Type](#)

## Search Results

You searched for: [Keyword > hamlet](#) [✕](#) [Start Over](#)[« Previous](#) | 1 - 10 of 5,332 | [Next »](#)[Sort by Relevance ▾](#)[10 per page ▾](#)[Add checked to folder ▾](#)

### Limit your search

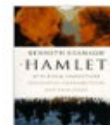
#### Newly Added Titles ▸

#### Format ▾

Book	3,576
E-Book	915
Online Resource	515
+ Video & Film	363
+ Audio Recording	335
+ Microformats	131
Musical Score	101

### 1. Hamlet

Author: Branagh, Kenneth  
Published: New York : W.W. Norton & Co., ©1996  
Edition: 1st ed.  
Language: English  
Format: Book  
Copies At: Indianapolis and South Bend



### 2. Hamlet

Author: Thomas, Ambroise, 1811-1896  
Published: [France] : EMI Classics, [2012]  
Language: French



# GOALS FOR THE MUSIC VIEW

- Meet unique searching needs for Music Patrons
- Limit search results from the start
- Additional facets
- Additional search indexes
- Additional information displayed on results page







**SEEKING SOLUTIONS**



# AUDIENCE



INDIANA UNIVERSITY BLOOMINGTON

<https://images.iu.edu/item/263>

A young woman with glasses and a grey cardigan is sitting at a wooden table in a library, writing in a notebook. A water bottle is on the table. Bookshelves are visible in the background. A semi-transparent grey banner with the word 'RESEARCH' in white capital letters is overlaid on the image.

# RESEARCH





# UNIVERSITY OF NORTH TEXAS INSTRUMENT SEARCH

Use this form to search for music-related items owned by the UNT Libraries.

## Instrumentation And Voice Search

This form allows you to search for specific combinations of instruments and voices.

1. Select the type of instrument, voice, or ensemble.
2. Specify the number
  - for *Choral*, this is the number of parts.
  - for *Percussion*, this is the number of performers.
3. For combinations of instruments, click "➕ Add More," click "➖ Remove" if you add too many instruments/voices.
4. Click the "Submit Search Now" button or add additional search criteria like keywords or language with "Add Other Criteria"

**Note:** Whatever combination you create here will be injected into the first search field in the form as specialized code. Any existing values will be overwritten. Add other keywords/terms in the additional inputs & limit your search using the remaining input fields.

Instrument/Voice Family

Brass

Specific Instrument/Voice

Horn

Number

1

➕ Add More

Submit Search Now

Add Other Criteria (Keywords, etc.)

Cancel





# UNT INSTRUMENT SEARCH: INSTRUMENT OR VOICE FAMILY

Use this form to search for music-related items owned by the UNT Libraries.

## Instrumentation And Voice Search

This form allows you to search for specific combinations of instruments and voices.

1. Select the type of instrument, voice, or ensemble.
2. Specify the number
  - for *Choral*, this is the number of parts.
  - for *Percussion*, this is the number of performers.
3. For combinations of instruments, click "+ Add More." click "- Remove" if you add too many instruments/voices.
4. Click the "Submit Search Now" button or add additional search criteria like keywords or language with "Add Other Criteria"

**Note:** Whatever combination you create here will be injected into the first search field in the form as specialized code. Any existing values will be overwritten. Add other keywords/terms in the additional inputs & limit your search using the remaining input fields.

### Instrument/Voice Family

- Brass
- Winds**
- Brass
- Woodwinds
- Strings**
- Strings: Bowed
- Strings: Plucked
- Solo Voice**
- Vocal Range
- Ensembles**
- Choral
- Instrumental
- Chamber Ensemble
- Keyboards/Percussion**
- Keyboard
- Percussion
- Other**
- Electronic
- Unknown

### Specific Instrument/Voice

Horn

### Number

1

+ Add More

Search Now

Add Other Criteria (Keywords, etc.)

Cancel

Multiple words are searched together as one phrase

# UNT INSTRUMENT SEARCH: SPECIFIC INSTRUMENT OR VOICE

Music Library Catalog Search

Use this form to search for music-related items owned by the UNT Libraries.

## Instrumentation And Voice Search

This form allows you to search for specific combinations of instruments and voices.

1. Select the type of instrument, voice, or ensemble.
2. Specify the number
  - for *Choral*, this is the number of parts.
  - for *Percussion*, this is the number of performers.
3. For combinations of instruments, click "➕ Add More."
  - click "➖ Remove" if you add too many instruments/voices.
4. Click the "Submit Search Now" button or add additional search criteria like keywords or language with "Add Other Criteria"

**Note:** Whatever combination you create here will be injected into the first search field in the form as specialized code. Any existing values will be overwritten. Add other keywords/terms in the additional inputs & limit your search using the remaining input fields.

Instrument/Voice Family

Brass

Specific Instrument/Voice

Horn

Horn

Trumpet

Cornet

Trombone

Tuba

Baritone

Unspecified

Unknown

Ethnic

Other

Number

1

➕ Add More

Submit Search Now

Add Other Criteria (Keywords, etc.)

Cancel





# USER TESTING



INDIANA UNIVERSITY BLOOMINGTON

<https://s3-sa-east-1.amazonaws.com/latinta.com.ar/wp-content/uploads/2017/09/06125035/focus-group-encuesta-cambiemos.jpg>



# MUSIC LIBS VS. MUSIC STUDENTS

## Music Librarians

Display Authorized Access Points on results page

Instrument Facet

## Music Students

Search by Publisher

Filter by Score

Scores on results page / # of performers

Full Publisher information on results page

## Both Groups

Full Publisher information on results page

Display instrument information on results page

Expanded music format filtering







# RESULTS



All Fields ▾

Search the library catalog

☐ Online Only[Advanced Search](#)[Browse](#)[Reserves](#)[Music Search](#)

Choose Search Type

## Welcome to the Indiana University Library Catalog

- Use " Choose Search Type" to access Advanced Search, Class Reserves, or Browse.
- Use quotation marks to search as a phrase.
- Use "OR", "AND", and "NOT" to create complex boolean logic.
- Truncation and wildcards are not supported - word-stemming is done automatically.
- [Access more help at the KB.](#)

### Navigation

[Advanced Search](#)  
[Browse](#)  
[Class Reserves](#)  
[My Account](#)

### Help & Services

[Ask a Librarian](#)  
[ILL/Recall](#)  
[Feedback](#)  
[IUCAT Help](#)

### IU Libraries

[Campus Libraries](#)  
[E-Resource Use Policy](#)  
[Privacy Policy](#)  
[IU Home](#)





All Fields ▾

Search the library catalog

Q

☐ Online Only[Basic Search](#)[Advanced Search](#)[Browse](#)[Reserves](#)[Choose Search Type](#)

## Search music related materials statewide

Find audio recordings, scores, books, and other music-related items, in both digital and print formats from music collections across the IU system, including the William and Gayle Cook Music Library, Archives of Traditional Music, the South Bend Schurz Library, and others

Search by Keyword, Title, Subject, or Publisher. [More information about music search.](#)

- Use quotation marks to search as a phrase.
- Use "OR", "AND", and "NOT" to create complex boolean logic.
- Truncation and wildcards are not supported - word-stemming is done automatically.
- [Access more help at the KB.](#)

### Navigation

[Advanced Search](#)[Browse](#)

### Help & Services

[Ask a Librarian](#)[ILL/Recall](#)

### IU Libraries

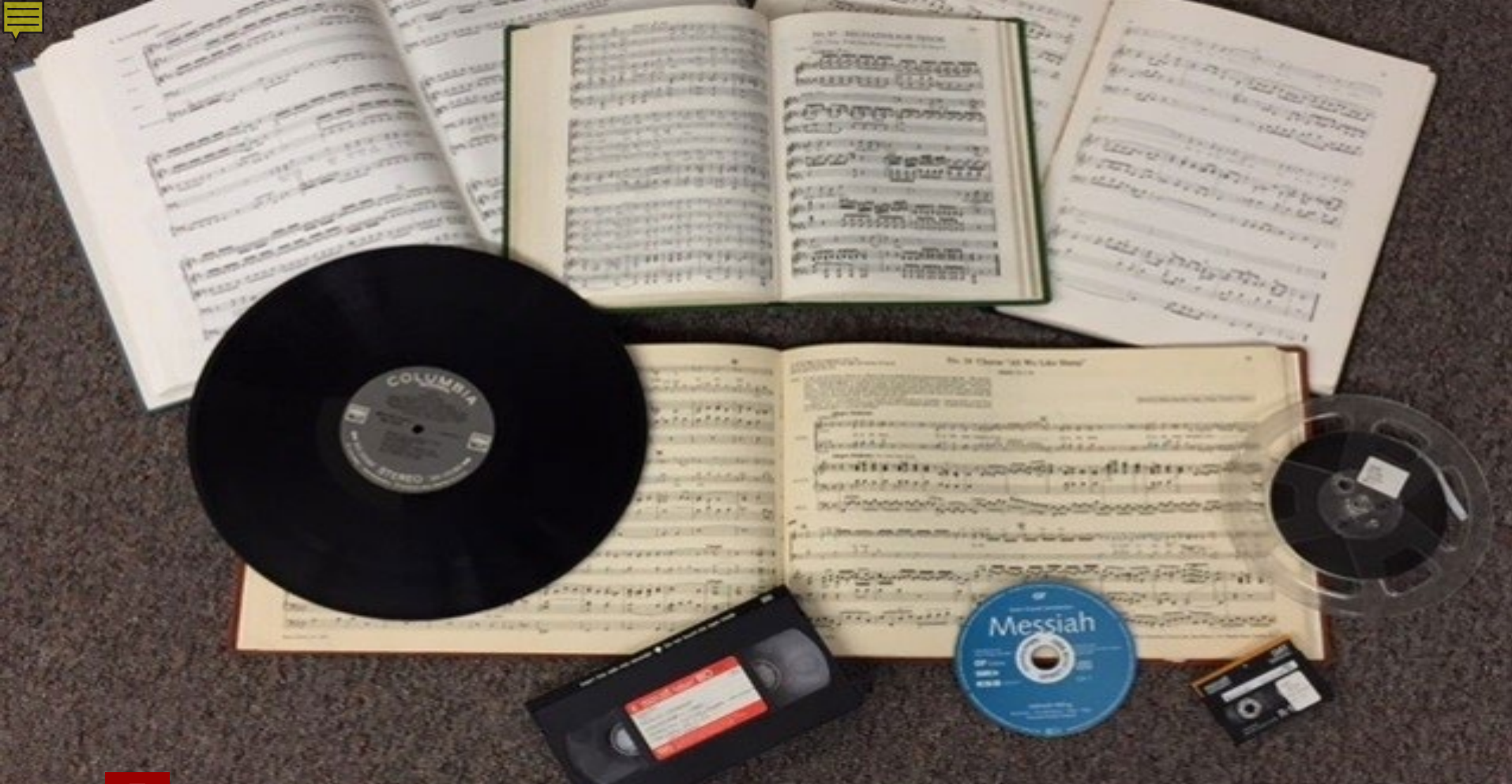
[Campus Libraries](#)[E-Resource Use Policy](#)



# IMPROVING SEARCH RESULTS:

## New facet for Scores





INDIANA UNIVERSITY BLOOMINGTON



Title ▼

Messiah

Q

☐ Online Only

[Advanced Search](#)

[Browse](#)

[Reserves](#)

⚙ Choose Search Type

# Search Results

You searched for:

Title > Messiah ✕

Library > Bloomington - Music Library ✕

« Previous | 1 - 10 of 522 | Next »

Sort by Relevance ▼

10 per

Limit your search

Newly Added Titles >

Format ▼

+ Audio Recording

425

Online Resource

298

## 1. Messiah

Publication Date: 2011  
Language: English  
Format: Musical Recording Online Resource  
Copies At: Bloomington, South Bend, Southeast, and East



Title ▼

Messiah

Q

☐ Online Only

[Advanced Search](#) [Browse](#) [Reserves](#)

⚙ Choose Search Type

# Search Results

You searched for:

Title > Messiah

✕

Format >  Musical Score

✕

Library > Bloomington - Music Library

✕

[Start Over](#)

« Previous | 1 - 10 of 54 | [Next](#) »



[Sort by Relevance](#) ▼


[10 per page](#) ▼

[Add checked to folder](#) ▼



Limit your search

Format ▼


 Musical Score

✕

54

Publication Year ▼

## 1. [Messiah](#)

Author: Handel, George Frideric, 1685-1759  
Publication Date: 1998  
Language: English  
Format:  Musical Score  
Copies At: Bloomington



Scores



Rec stat

c

Enter

Type

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l

Srce

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Audn

BLvl

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Form

Comp

ft

AccM

Part

TrAr

Desc

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DtSt

t

040

ISM #b eng #c ISM #d OCLCQ #d OCLCG







Title ▾

Messiah



☐ All Fields

☒ Title

☐ Author

☐ Subject

☐ Publisher

[Basic Search](#)

[Advanced Search](#)

[Browse](#)

[Reserves](#)

Choose Search Type

## Music related materials statewide

...s, scores, books, and other music-related items, in both digital and print formats from music collections across the IU system, including the William and Gayle Cook Music Library, Archives of Traditional Music, the South Bend Schurz Library, and others

Search by Keyword, Title, Subject, or Publisher. [More information about music search.](#)

- Use quotation marks to search as a phrase.
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- [Access more help at the KB.](#)

### Navigation

[Advanced Search](#)

[Browse](#)

[Reserves](#)

### Help & Services

[Ask a Librarian](#)

[ILL/Recall](#)

[Feedback](#)

### IU Libraries

[Campus Libraries](#)

[E-Resource Use Policy](#)

[Privacy Policy](#)





Sort by relevance ▼

10 per page ▼

Add checked to folder ▼



## Limit your search

### Format ▼

+ Audio Recording	452
Online Resource	301
Musical Score	78
Book	43
+ Video & Film	2

### Instrument >

### Scores >

### Publication Year >

### Author >

### Composer >

## 1. Messiah



Published: United Kingdom : Signum Classics, [2011] and ©2011

Physical Description: 1 online resource (1 sound file).

Language: English

Format: Musical Recording Online Resource

Copies At: Bloomington, South Bend, Southeast, and East

## 2. Messiah



Published: [Italy] : Urania Records, [2011] and ©2011

Physical Description: 1 online resource (1 sound file)

Language: English and Latin

Format: Musical Recording Online Resource

Copies At: Bloomington, South Bend, Southeast, and East

## 3. Messiah



Author: Handel, George Frideric, 1685-1759

Published: [Israel] : Helicon Classics, [2014] and ©2014





Sort by relevance ▾

10 per page ▾

Add checked to folder ▾



## Limit your search

Format	>
Instrument	>
Scores	▾
Score	41
Accompaniment reduced for keyboard	20
Other	6
Miniature score	4
Vocal score	3
Publication Year	>
Author	>
Subject	>
Language	>
Call Number	>

## 1. Messiah



Published: United Kingdom : Signum Classics, [2011] and ©2011

Physical Description: 1 online resource (1 sound file).

Language: English

Format: Musical Recording Online Resource

Copies At: Bloomington, South Bend, Southeast, and East

## 2. Messiah



Published: [Italy] : Urania Records, [2011] and ©2011

Physical Description: 1 online resource (1 sound file)

Language: English and Latin

Format: Musical Recording Online Resource

Copies At: Bloomington, South Bend, Southeast, and East

## 3. Messiah



Author: Handel, George Frideric, 1685-1759

Published: [Israel] : Helicon Classics, [2014] and ©2014

Physical Description: 1 online resource (1 sound file).

Language: English

Format: Musical Recording Online Resource

Copies At: East, Bloomington, South Bend, and Southeast



# Search Results

You searched for: **Title > Messiah** **Scores > Vocal score**

[Start Over](#)

1 - 3 of 3

Sort by relevance ▾

10 per page ▾

Add checked to folder ▾

## Limit your search

**Format** ▾  
 Musical Score 3

**Instrument** ▸

**Scores** ▾  
Vocal score **×** 3

**Publication Year** ▸

**Author** ▸

### 1. Messiah : 1741 : für Soli, Chor und Orchester = for soloists, choir and orchestra : HWV 56

Author: Handel, George Frideric, 1685-1759  
Published: Wiesbaden : Breitkopf & Härtel, [2018] and ©2018  
Physical Description: 1 vocal score (299 pages) ; 27 cm  
Edition: Klavierauszug /  
Language: English and German  
Format: Musical Score  
Score: Vocal score  
Instrument: Mixed Chorus and Piano  
Copies At: Bloomington

### 2. I know that my Redeemer. [Aria from "Messiah" by G.F. Haendel.]

Published: London : Printed for J. Bland, No. 45 Holborn, [approximately 1780]  
Physical Description: 1 score (3 pages) ; 34 cm



# **IMPROVING SEARCH RESULTS:**

**New facet for Instrument**



Language: English

Instrument

Larger ensemble--Full orchestra	59
Choruses--Mixed	52
Keyboard--Piano	9
Keyboard--Organ	8
Brass--Trumpet	7
Brass--Horn	6
Brass--Trombone	6
Brass--Tuba	6
Keyboard--Continuo	4
Larger ensemble--Chamber orch.	4
Piano	4
Voices--Soprano	4
Larger ensemble--String orchestra	3
Mixed Chorus	3
Voices--Alto	3
Larger ensemble--Other	2
Organ	2
Choruses--Children's	1
Choruses--Men's	1
Choruses--Women's	1

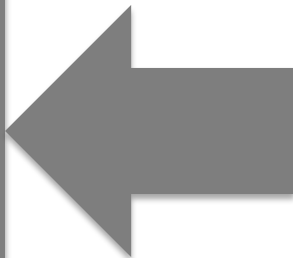
« Previous

Next »

A-Z Sort

Numerical Sort

Author: Handel, George Frideric, 1685-1759



Instrument

Larger ensemble--Full orchestra	59
Choruses--Mixed	52
Keyboard--Piano	9
Keyboard--Organ	8
Brass--Trumpet	7
Brass--Horn	6
Brass--Trombone	6
Brass--Tuba	6
Keyboard--Continuo	4
Larger ensemble--Chamber orch.	4

more »









Author: Handel, George Frideric, 1685-1759

Published: New York : Arabesque Recordings, c1980

Physical Description: 3 sound discs (2 hrs., 31 min., 37 sec.) : 33 1/3 rpm, stereo. ; 12in

Language: English

Format:  Musical Recording  Online Resource

Instrument: Larger ensemble--Full orchestra and Choruses--Mixed

Copies At: Bloomington

---

#### 49. Messiah




Author: Handel, George Frideric, 1685-1759

Published: [S.I.] : CBS Masterworks, p1980

Physical Description: 3 sound discs : analog, 33 1/3 rpm, stereo. ; 12 in

Language: English

Format:  Musical Recording

Instrument: Larger ensemble--Full orchestra and Choruses--Mixed

Copies At: Bloomington

---

#### 50. Messiah



Author: Handel, George Frideric, 1685-1759

Published: Fall River, MA : Sine Qua Non Superba, p1977



# UPCOMING CHANGES



# PREFERRED TITLE

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## 14. Ad Dominum cum tribularer : RWV.E 120 : für Sopran, Alt, Tenor, Bass, zwei Violinen, zwei Violen, Fagott und B.c.


Author: Rosenmüller, Johann, approximately 1619-1684

Published: Köln : Verlag Dohr, [2019] and ©2019

Physical Description: 1 vocal score (22 pages) ; 30 cm

Edition: Klavierauszug.

Language: Latin

Format:  Musical Score

Score: Vocal score

Instrument: Mixed Chorus and Piano

Copies At: Bloomington

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# UPDATES TO FORMATS

Limit your search


Newly Added Titles

Format


+ Audio Recording	166,331
 Musical Score	141,864
 Online Resource	103,588
 Book	81,803
+ Video & Film	3,599
+ Microformats	2,850
 Journal, Periodical	2,777
 Manuscript	1,884
 CD-ROM	366
 E-Book	317
+ Mixed Materials, Three-dimensional objects	25

[more »](#)


## 1. Graphic music analysis

Author: Wen, Eric, 1953-  
Published: Lanham, Maryland : Rowman & Littlefield, [2020]  
Language: English  
Format:  Book  
Copies At: Bloomington

## 2. The Grey House performing arts industry guide

Published: Amenia, NY : Grey House Publishing, Inc., 2019-  
Language: English  
Format:  Journal, Periodical  
Copies At: Bloomington

## 3. "Eiketreet" : for harmonica and strings

Author: Sivertsen, Kenneth, 1961-2006  
Published: München : Musikproduktion Höflich, 2019 and ©2019  
Format:  Musical Score  
Copies At: Bloomington





# IMPROVING SEARCH RESULTS:

**New facet for sound  
recordings**





choreographer instrumentalist  
 interviewer instructor  
 composer honouree  
 producer presenter lyricist  
 compiler author editor  
 librettist singer host  
 dedicatior director designer  
 actor speaker  
 narrator autographer  
 panelist arranger  
 transcriber filmmaker donor  
 conductor interviewee depositor

WordItOut

# Hoagy Who?



INDIANA UNIVERSITY BLOOMINGTON

☐ Bernstein, Leonard (1,238)

WWU (2,036)

+ Summit (4,206)

+ Summit + Articles (23,313)

Alliance Harvester records - Test (2,036)

[Feedback](#) [Search Tools](#) [Help](#) [Hello Sign In :\)](#)

leonard bernstein


Questions?  
Chat with Us.


Advanced Search

#### Composer

- ☐ Bernstein, Leonard, 1918-1990 (262)
- ☐ Copland, Aaron, 1900-1990 (58)
- ☐ Beethoven, Ludwig van, 1770-1827 (44)

[show/hide filters](#)

#### Director

- ☐ Burton, Humphrey, 1931- (7)
- ☐ Beyer, Michael (5)
- ☐ Coles, Bob (Television director) (2)

[show/hide filters](#)

#### Performer

- ☐ New York Philharmonic (168)
- ☐ Bernstein, Leonard, 1918-1990 (84)
- ☐ Wiener Philharmoniker (35)

[show/hide filters](#)

Available at Music  
Library Book  
(ML410.B566 B9 1994 )

[Request Options](#)
[Details](#)

#### ☆ Leonard Bernstein, teachers and teaching : an autobiographic essay by Leonard Bernstein

Humphrey Burton, 1931- film director.; 1988

Place of publication not identified : Unitel



Available

[Access Options](#)
[Details](#)

#### ☆ Leonard Bernstein at Harvard : "the unanswered question"

Leonard Bernstein, 1918-1990.; Douglas Smith; 1992

W. Long Branch, NJ : Kultur International Films



[Image courtesy of WWU](#)



# Potential Future Desires with Sound recordings

## FORMAT DESIGNATION

LP	33 1/3 rpm, microgroove disc, mono/unknown
TP	Reel-to-Reel tape
EP	45 rpm, microgroove disc
SP	78 rpm, standard/coarse groove disc
ET	Electronic transcription disc
WP	Phonowire
CTP	Cassette tape
CD	Compact disc
DAT	Digital audio tape
VTP	Videocassette
DVD	Digital video disc
XX-S	stereophonic
XX-Q	quadrophonic
XX-78	Recorded from 78 original (or other original)

## CALL NUMBER

LP-S  
.B118  
K2.1r

## CUTTER-SANBORN COMPOSER NUMBER

decimal abbreviation of composer, according to Cutter-Sanborn alphabetic index:

.B118	Bach, Johann Sebastian
.B292	Bartok, Béla
.B414	Beethoven, Ludwig van
.B493	Berg, Alban
.B515	Berlioz, Hector
.B664	Boccherini, Luigi
.B763	Boulez, Pierre
.B789	Boyce, William
.B813	Brahms, Johannes
.B817	Brand, Dollar
.B995	Byrd, William

## CLASS NUMBER

Qualification: use opus number or thematic catalog listing

A	Complete operas & musicals	B3	Trombone music
Ae	Opera & musical excerpts from various works under cuttered composer or principal performer	B4	Tuba music
Aer	Opera & musical excerpts from various works arranged by someone other than cuttered composer or principal performer	B5	Any other brass instrument
B	Brass music or brass band	C	Chamber music, undoubled parts
B1	French horn music	C1	Collection of chamber works by one composer
B2	Trumpet or cornet music	C3	Trio, mixed families
etc.		C3B	Brass trio
		etc.	
		C3B1	Horn trio
		C4	Quartet, mixed families
		etc.	



<https://www.frost.miami.edu/alumni/frost-alumni/alumni-by-department/music-education/dominique-rene-delerma/index.html>

# De Lerma



INDIANA UNIVERSITY BLOOMINGTON

HERMAN B WELLS



**INDIANA UNIVERSITY BLOOMINGTON**  
FULFILLING *the* PROMISE