2024-10-13 Supplementary mats - links list – Appendices

Remember Prods

The following selections can be heard at <https://youtu.be/CZB8NF390GU>

1. Beethoven *Sonata in F major*, op. 10, no. 2 (3rd movement: Presto)
2. Liszt *Rigoletto Paraphrase*, at time stamp 2:53
3. Robert Helps *Trois Hommages* (Hommage à Ravel), at time stamp 11:16
4. Bach-Tausig *Toccata and Fugue in d minor*, at time stamp 15:41
5. A Liszt interlude …, at time stamp 25:36
6. Bartok *Suite op. 14* (Allegro molto; Sostenuto), at time stamp 26:34
7. Haydn *Sonata in D major*, Hob. XVI/24: 1st movement (Allegro), at time stamp 31:42; 2nd and 3rd movements (Adagio, Finale: Presto), at time stamp 35:50

Remember prods

This live performance recording of the original piece occurred during a concert/lecture I gave at Kresge Auditorium, MIT, in August 1998: <https://youtu.be/UZQwi24DGBo>

OCE

The first clip (OCO performing Dvorak’s Eighth Symphony at the May 2014 Olin Expo) demonstrates the teamwork and communication enabling all to lock in for the exciting accelerando to the end. OCO Expo Spring 2014 performance clip <https://youtu.be/uGVKzEfd4qE>

The second clip shows the orchestra four years later performing the Schumann First Symphony in Spring 2018: <https://youtu.be/dkMaVZTSmdQ>

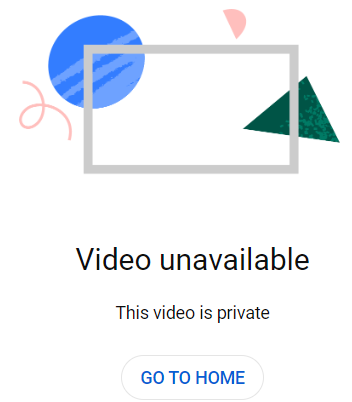
**Ask Joe about the below links:**

The 2018 recording shows how much the orchestra has grown since its formation in fall 2002 with five students and myself at the piano. In the early years of the college, OCO performances had to include sizeable piano parts, as can be heard in the below 2003-05 performance clips. These large piano parts were necessary: they provided the glue bridging drastically unbalanced orchestral sections. For example, in fall 2003 we had four trombones and only one violin!

Rachmaninov Rhapsody on a Theme of Paganini Fall 2003: <https://youtu.be/Y0L6LMzZKVk>

Gershwin Rhapsody in Blue Spring 2004: <https://youtu.be/xVPgU-288eA>

Britten Diversions for orchestra and piano (left hand alone) Fall 2005: <https://youtu.be/y7DrRH0VZ5s>



Also, the following: Engineering the Orchestra, part II, Final Project Composition <https://youtu.be/g4wS3piRKHw>

The 2013 Wired Ensemble course was the best ever. Here is a Wired Ensemble 2014 CW2 performance clip of compositions from the 2013 class: <https://youtu.be/sj_0mKg01ng>

Every year I try to identify guests the students will enjoy working with and also try to keep the guests involved by inviting them back. OCO’s Spring Expo on May12, 2014 can be heard here: <https://www.youtube.com/watch?v=BWjYPrRno9M>

second Candidates Weekend, Feb 27, 2015, as well as the Wired Ensemble Candidates Weekend 2015 performance <https://youtu.be/rVRSSNKqG8A>

Evidence of Music Program Impact, 2015 Candidates Weekend 3:  <https://youtu.be/uiryNONUTZA>

**Dd: make sure incude** Please see [**Supplementary Materials IV-J-3**](#_Supplementary_Materials_IV-J-3:) for more OCO YouTube performances, including complete recordings of works by Haydn, Mozart, Berlioz, Dvorak, Gershwin, Arturo Marquez, and others.

Remember prods

An overview of performance clips from the Wired Ensemble composition course, 2013-2018, can be heard at <https://youtu.be/Itx2s73QVnQ>

A YouTube video <https://youtu.be/2NhlqJxwcX0>captures the student works comprising *Wired in Series*, a performance of ten short student compositions resulting from my “Mix and Stir” grant, a Babson-Olin-Wellesley (BOW) Presidential Innovation Grant Award. None of the students had composed music before taking this course.

OCE

***September Quartet.*** Recorded live on the Tenth Anniversary of 9/11, this YouTube video captures the performance from the middle of the “93” movement to the “End.” <https://www.youtube.com/watch?v=UQj2EmfFgAg>

***Tre Studi di Colore.*** YouTube videos of *Tre Studi di Colore* recorded by pianist Jongsun Lee at Mozart Hall, Seoul, Korea, in December 2013.

Violetto: <https://www.youtube.com/watch?v=mRrJhR4OmEQ> Rosso: <https://www.youtube.com/watch?v=j1mWqnuUkA8> Azzurro <https://www.youtube.com/watch?v=yH5X84zePjw>

***Fuente y Variación.*** A YouTube video of *Fuente y Variación* recorded by pianist Jongsun Lee at Mozart Hall, Seoul, Korea, Dec. 9, 2013. *Variación* <https://www.youtube.com/watch?v=3vVeYwW1VNY> *Fuente* <https://www.youtube.com/watch?v=KSA6kJN1iyA>

**TEDx talk at Seoul National University** “Two are better than one: composers and performers in music.” Pianist Jongsun Lee presented her work bringing *Fuente y Variación* and *Tre Studi di Colore* from score to finished performance, Nov. 16, 2013. <https://www.youtube.com/watch?v=0i3wkr7G1O4>

***Who was Wissam Eid?*** YouTube video of *Who was Wissam Eid?* recorded April 17, 2017 <https://youtu.be/Ra_AoA8SUsY>

Performers: Gabriella Diaz, violin; David Russell, cello; and Lois Shapiro, piano.

***Parallel Lives—Distant Mirrors.*** YouTube video of *Parallel Lives—Distant Mirrors*, recorded live in Houghton Chapel as part of the Wellesley College Concert Series <https://www.youtube.com/watch?v=xSqE22X4I8U>

Performers: Yong Su Clark, flute; P. Lucy McVeigh, mezzo-soprano; and Jongsun Lee, piano.

Remember prods

CantoVario’s Demo Day five-minute presentation video, given April 30, 2014 at MIT: <https://youtu.be/ookPBjK0iaA>

DD google drive

CantoVario’s “Lessons Learned” video can be accessed at <https://drive.google.com/open?id=1O4EcHjHHpA_kC4Kch0OLn1VbLrbY9ymL>

Remember prods

1. Haydn *Sinfonia No. 48 in C Major*, “Maria Theresia”: first movement (Allegro), Spring 2008. <https://youtu.be/knulC0k1r5M>
2. Arturo Marquez *Danzon No. 2*, Spring 2013

<https://youtu.be/yyzEQ6n6OYA>

1. Saint-Saens *Danse Bacchanale*, Fall 2015

<https://youtu.be/zix7IweadvM>

OCE

1. Composite video excerpts (Holst: Jupiter from *The Planets* and Lee Jisu: *Arirang Rhapsody*), Spring 2011 <http://www.youtube.com/watch?v=ZFd453aYudU&feature=mfu_in_order&list=UL>
2. Beethoven *Creatures of Prometheus*, Fall 2015

<https://www.youtube.com/watch?v=VlkAZG106ek>

1. Dvorak *Symphony No. 9 in E minor*: fourth movement (Allegro con fuoco)—Spring 2016

<http://bit.ly/OCO_Dvorak9th>

1. Gershwin *An American in Paris*: Spring 2017

<https://www.youtube.com/watch?v=BA5F48usRIo>

1. Mozart *Serenade in Bb for 13 Winds*, K. 361: Finale—Spring 2019

<https://www.youtube.com/watch?v=hTNUGRU4Pl8>

1. Berlioz “Marche Hongroise” from *La Damnation de Faust*: Spring 2019

<https://www.youtube.com/watch?v=a9IkNITe1fE>

<https://www.youtube.com/watch?v=UTgI_DgaUtU> (Ann Schaffner Inaugural concert, 2014: Jongsun Lee, piano)

<https://www.youtube.com/watch?v=qNTt0YAs7Pk> (Ann Schaffner Concert, 2015: John McDonald, piano)

<https://www.youtube.com/watch?v=l9d2hCmwL-M> (Ann Schaffner Concert, 2016: Longwood Symphony Orchestra String Quartet)

<https://www.youtube.com/watch?v=xWwoi_lmHU8&t=1s> (Ann Schaffner Concert, 2017: Mix and Stir Babson, Olin, Wellesley Faculty concert)

<https://www.youtube.com/watch?v=r7slKmLAawk&t=2950s> (Ann Schaffner Concert, 2018: Jongsun Lee and Hyunjung Kim, 1 piano-4 hands)

<https://youtu.be/G3dKQv_hf6A> (Ann Schaffner Concert, 2019: Olin Conductorless Orchestra in a repeat of its concert for the 2019 ASEE Zone I International Conference in Niagara Falls, NY)

The orchestra was again asked to perform in tandem with Wellesley and Babson groups in Sorenson Theater at Babson (together they gave a Spring 2014 concert) which can be heard at this link: <https://video.search.yahoo.com/yhs/search?fr=yhs-itm-001&hsimp=yhs-001&hspart=itm&p=appalachian+spring+olin+conductorless+orchestra#id=2&vid=1bd337d260fe7f185c4dffea7f8fef87&action=click>

**LINK no longer works but works after refresh the page:** the May 11, 2015 Spring Expo—Two Symphonic Dances from Bernstein’s *West Side Story*: <https://www.youtube.com/watch?v=6LxaVDT1dCI>

**Ck this link:** performances of Wired Ensemble during Candidate Weekends’ due to sound carrying from events in the library.) <https://www.youtube.com/watch?v=Sb0YbqIR7fs> SAME perf as above but shorter

AVP Joe Hunter produced videotapes of both OCO and Wired Candidates Weekend performances, e.g., <https://www.youtube.com/watch?v=1q54qB3AiOU> Prokofiev's “Dance of the Knights” from “Romeo and Juliet,” op. 64ter, during the second Candidates Weekend, Feb 27, 2015, as well as the Wired Ensemble Candidates Weekend 2015 performance <https://youtu.be/rVRSSNKqG8A> **[this link yields “Video unavailable. This video is private” so I put it above with the other videos w this pb]** (But sadly, for the past two years we’ve been unable to record hi-fidelity performances of Wired Ensemble during Candidate Weekends’ due to sound carrying from events in the library.) <https://www.youtube.com/watch?v=Sb0YbqIR7fs> SAME perf as above but shorter

Admin. Asst. Paul Coveney designed smart programs for each, as well as for the Fall 2014 and Spring 2015 Expo performances, and AVP Joe Hunter made excellent videos. The 2015 Ann Schaffner Concert videotape can be found at <https://www.youtube.com/watch?v=qNTt0YAs7Pk>

Remember prods

Because Prof. Martin Brody’s piece was unable to be performed at the ‘faculty’ concert held in April 2017, his work was moved to this concert as well. The whole concert can be heard at:  <https://youtu.be/SjLNAKT0-qE>

**Link no longer works:** a Fundit campaign with DFAR (Development, Family, and Alumni Relations). Adi Sudakhar ‘22 made the Fundit video (<https://fundit.olin.edu/project/14470>), Kyle Emmi ’21 worked out the trip logistics, Maggie Rosner ‘20 took care of getting the word out. Though the Fundit page shows us $1000 short, we made our goal due to the generosity of an anonymous donor who will forever be blessed.

Origins of OCO, Candidates Weekends 2019: <https://youtu.be/i318wEnXnmw>

Origins of the Olin Concert Hallway Steinway B, Candidates Weekends 2019: <https://youtu.be/HwWwH3QSyqk>

Q&A on the Music Program, Candidates Weekends 2019: <https://youtu.be/5i-C5YXAJgM>

**APPENDICES**

Appendix II-A-2. Examples of Wired Ensemble Assignments and Student Work

Inserted PDFs start on the next page.

Appendix II-B-1. DSP: Example Assignments, Labs, and Student Work

Inserted PDFs start on the following page.

Appendix II-B-2. Signals and Systems: Example Assignments and Student Work

PDFs begin on the next page.

Appendix II-C-1. Uniting AHS with Engineering: Module linking music and engineering developed for a new course—“Engineering the Acoustical World”, Harvard School of Engineering and Applied Sciences (SEAS), led by Robert J. Wood, Harry Lewis and Marlyn McGrath Professor of Engineering and Applied Sciences

PDFs of these materials start on the next page.

Appendix III-G. Musical Scores of Commissions and World Premières

PDF scores start on the next page.

Appendix IV-H-1: Boston Sunday Globe Article on CantoVario (2013)

A PDF of her article starts on the following page.

Appendix IV-H-2: *ArtScience* by David Edwards, Harvard University Press 2008: Chapter 2 (“Process”) on my Musical Variations Project

The PDF starts on the next page.

Edwards’ book was also reviewed in Nature: <https://www.nature.com/articles/451246a.pdf?origin=ppub>

Appendix IV-H-3: NSF I-Corps Grant (funded 2019)

A PDF of CantoVario’s NSF grant entitled “I-Corps: Harnessing Chaotic System Variability” starts on the following page.

Appendix IV-J-1: “The Engineers’ Orchestra”, published by Springer Nature

A PDF of the book chapter “The Engineers’ Orchestra: a conductorless orchestra for our time”, published by Springer Nature in *Creative Ways of Knowing in Engineering*, starts on the next page

The below link to the Springer Nature site for the book chapter gives the abstract, references, and acknowledgments: <https://link.springer.com/chapter/10.1007/978-3-319-49352-7_2>

Appendix IV-J-2: “The Engineers’ Orchestra: a conductorless orchestra for developing 21st century professional skills.” Awarded *2020* *best paper* by the American Society for engineering education (ASEE),zone 1

A PDF of this paper, peer-reviewed and published in the Proceedings of the ASEE Zone I International Conference, Niagara Falls, NY, April 12-14, 2019, starts on the following page.

Appendix IV-K-1: A Sampling of my Orchestral Arrangements

[Appendix IV-K-2](#_Appendix_IV-K-2:_) includes scores of the arrangements.

**Remember Prods. *Evidence****:* The OCO recording of my arrangement of the Haydn can be heard at <https://youtu.be/knulC0k1r5M>

**Remember Prods. *Evidence:***  My arrangement can be heard in the 2013 OCO YouTube video recording <https://youtu.be/yyzEQ6n6OYA> The pianist (Philicia Chow) is excellent, yet she had to perform her big part on an electronic piano. Her playing made it clear we had to find a concert piano for future OCO concerts, which thankfully we did!

**OCE (but only plays after refresh the page) *Evidence****:*  My re-orchestration of the *Più animato* can be heard in the 2014 OCO YouTube video recording <http://bit.ly/OCO_Dvorak8>

**OCE. *Evidence****:*  My arrangement can be heard in the 2016 OCO YouTube video recording <http://bit.ly/OCO_Dvorak9th> .

**OCE american in paris. *Evidence****:*  My arrangement can be heard in the 2017 OCO YouTube video recording <https://www.youtube.com/watch?v=BA5F48usRIo>

**OCE mozart win serenade k 361. *Evidence****:*  My arrangement of the Spring 2019 Mozart can be heard in the 2019 OCO YouTube video recording <https://www.youtube.com/watch?v=hTNUGRU4Pl8>

**OCE berlioz marche hongroise. *Evidence****:*  My arrangement of the Berlioz can be heard in the 2019 OCO YouTube video recording <https://www.youtube.com/watch?v=a9IkNITe1fE>

Appendix IV-K-2: Scores of the Sample Orchestral Arrangements

PDF scores for the following orchestral arrangements discussed in [**Appendix IV-K-1**](#_Appendix_IV-K-1:_) start on the next page.

1. Haydn *Sinfonia No. 48 in C Major*, “Maria Theresia”: first movement (Allegro), Spring 2008.
2. Arturo Marquez *Danzon No. 2*, Spring 2013
3. Dvorak *Symphony No. 8 in G Major*, fourth movement (Allegro ma non troppo), Spring 2014

(N.B. Score example provided earlier as part of [Appendix IV-K-1](#_Appendix_IV-K-1:_).)

1. Dvorak *Symphony No. 9 in e minor*: fourth movement (Allegro con fuoco), Spring 2016
2. Gershwin *An American in Paris*, Spring 2017
3. Mozart *Serenade in Bb for 13 Winds*, K. 361, seventh movement (Finale), Spring 2019
4. Berlioz “Marche Hongroise” from *La Damnation de Faust*, Spring 2019

**Asd**

Appendix IV-K-3. Arrangements of Orchestral Works for 12-22 players

The below appendices—organized by academic year—give orchestral arrangements that can be accessed at The Engineers’ Conductorless Orchestra Hub <https://pages.olin.edu/eco-summer2019>, a website offering useful resources, videos, orchestral arrangements, and blueprints to help/encourage other engineering schools to start their own conductorless orchestras, as discussed in Section IV-K of this dossier.

Appendix IV-L: Concerts at Olin (Fall 2002 - Spring 2019) that I Rehearsed and Produced