

The Olin Conductorless Orchestra



Olin Fall Expo
Monday, December 17, 2018
Olin College of Engineering
Needham, MA



Olin College
of Engineering

OCO

Serena Chen, Anne Ku, Connor Novak, Annie Tor,
Brandon Zhang, Lydia Zuehsow—violins
Kian Raissian, Emma Westerhoff, Rachel Won—cellos
Jeremy Ryan, Eric Miller—flutes
Shashank Swaminathan—alto flute
Jack Mao—alto sax
Kyle Emmi—trumpet
Aditya Sudhakar—euphonium
Diego Alvarez, Paul Nadan—trombones
Joseph Lee—timpani
Jonah Spicher—piano

Mix and stir ...

OCO Navigators: Kyle Emmi, Connor Novak, and
Emma Westerhoff

Sibelius Transcribers: Kyle Emmi, Marie-Caroline
Finke, Anne Ku, Justin Kunimune, Junwon Lee, and
Brandon Zhang

Head transcribers: Anne Ku and Justin Kunimune

Adjudication and professional coaching: Michael
Avitabile (Hub New Music), Charles Peltz (New England
Conservatory), Sam Solomon (Boston University), Diana
Dabby (OCO professor)

Re-orchestrations: Diana Dabby

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Program

Rondo from the *Serenade for Winds*, K. 361 W.A. Mozart*

Waltz from the *Serenade for String Orchestra*, op. 48 P. Tchaikovsky*

Overture to *Così fan tutte*, K. 588 W.A. Mozart*

Marche Hongroise from *La Damnation de Faust* H. Berlioz*

***Mozart** wrote the *Wind Serenade*, K. 361, for 2 oboes, 2 clarinets, 2 basset horns, 4 horns, 2 bassoons, and double bass. **Tchaikovsky** scored his *Serenade* for full string orchestra (34 violins, 14 violas, 12 cellos, and 6 double basses). **Mozart's** overture to his opera *Così fan tutte* calls for 2 flutes, 2 oboes, 2 clarinets, 2 bassoons, 2 horns, 2 trumpets, timpani, and strings (16 violins, 6 violas, 4 celli, 2 double basses). **Berlioz** composed his Hungarian March for piccolo, 2 flutes, 2 oboes, 2 clarinets, 2 bassoons, 4 horns, 2 trumpets, 2 cornets, 3 trombones, tuba, ophicleide, timpani, percussion, and strings (34 violins, 14 violas, 12 cellos, and 6 double basses).

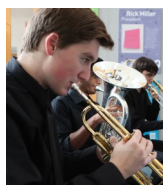
OCO has always had an unusual combination of instruments so the above works have been re-orchestrated to suit OCO's current instrumentation: 6 violins, 3 cellos, 2 flutes, alto flute, alto sax, trumpet, euphonium, 2 tenor trombones, piano, and timpani.



Diego Alvarez '20 is from Kirkland, Washington. He started playing piano in 5th grade, and later picked up trombone, composition, and guitar. He plans to study mechanical engineering.



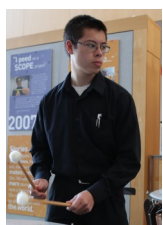
Serena Chen '19 is from Plano, Texas. Her major is Engineering with Computing. She has been playing violin for 11 years. In her spare time, she enjoys drawing snails.



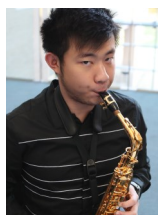
Kyle Emmi '21 is a trumpet player from Clovis, CA. In his spare time he enjoys building rockets and explaining to people where Clovis is on a map of California. This is Kyle's second year in OCO and he has immensely enjoyed being a part of this very special group. In addition to this ensemble, Kyle is also an active member of the Olin Rock Orchestra and Olin Jazz Orchestra. Thanks for coming to the performance!



Anne Ku '19 is an Electrical and Computer Engineering major, and she is currently in her fourth and final year in the Olin Conductorless Orchestra. She has been an active musician for 15 years and does not plan to stop.



Joseph Lee '19 was born and raised in Huntsville, AL, and has enjoyed playing timpani in OCO since first coming to Olin in 2015. He also loves composing music and plays both piano and harp. He spent a semester in Canterbury, England studying music composition where one of his compositions was performed live. In his free time (what is free time anyways?) he can be found working on one of his many projects – ranging from building a 200 mph high speed drone to building a harp.



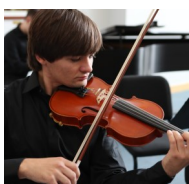
Jack Mao '22 is an alto saxophone player from Grafton, Massachusetts. He loves music. Outside of music, Jack enjoys basketball, coding, video games, and learning about outer space.



Eric Miller '19, from Granville, Ohio, has been playing flute for 13 years. He is majoring in Robotics, which he describes as "basically just an excuse to take whatever classes I want to."



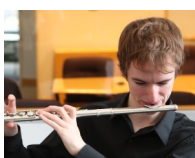
Paul Nadan '20 is from San Carlos, CA, and has been playing music since he picked up the euphonium in fifth grade. He added the trombone to his repertoire two years later to play in a jazz band, and this is his third year playing trombone in OCO. Besides music, his interests include books, board games, robots, and space exploration.



Connor Novak '20 is from Reno, Nevada. He began playing the violin at an early age and has performed with the Reno Youth Symphony Orchestra and other performance groups. His major in Robotics allows him to spend time working on his favorite project, a robotic tractor.



Kian Raissian '20 is from Houston, Texas. He has been playing cello for about 15 years now and has been an active soloist and was a part of Houston Youth Symphony and other ensembles, including the Helios Quartet, which he founded and managed. He is studying Mechanical Engineering. He also enjoys longboarding, playing ultimate Frisbee, and secretly loves SolidWorks.



Jeremy Ryan '20 is from Medical Lake, Washington. In addition to flute and piccolo, he also plays (with various aptitude) accordion, mallet percussion, musical saw, ping pong, Sibelius, and piano. He intends to major in electrical and computer engineering.



Jonah Spicher '21 is from Casper, Wyoming. He has played piano for more than ten years, spending three years as an accompanist for several different choirs. He is tentatively planning to major in electrical engineering.



Aditya Sudhakar '22 is a euphonium player from Katy, TX. In his spare time he enjoys building racecars and is an active member of Olin Electric Motorsports.



Shashank Swaminathan '22 is a flute player from Novi, MI. In his spare time he enjoys building boats. Shashank is also an active member of Olin Aquatic Robotic Systems and an amateur woodworker.



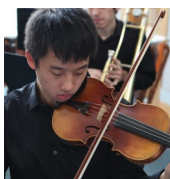
Annie Tor '22 is a violin player from Pleasanton, CA. In her spare time she enjoys building friendships. In addition to OCO, Annie is an active member of Olin Electric Motorsports and a friend to many.



Emma Westerhoff '20 is from Scottsdale Arizona. While she plays classical cello in OCO, she moonlights as a jazz musician on solo cello, bass, and drums. In addition to studying Electrical and Computer Engineering, Emma enjoys math, soccer, and hiking in the desert.



Rachel Won '21 is from Saratoga, California and is currently on the track of Mechanical Engineering. She has been playing the cello for 9 years and has played in the California Philharmonic Youth Orchestra, Hopebox Charity Orchestra, and J'adore Cello, a 16-cello ensemble.



Brandon Zhang '21 is from Tenafly, New Jersey. He picked up violin in 3rd grade. He enjoys math, rocketry, and board games. This is Brandon's second year in OCO, and he has enjoyed every second of it!



Lydia Zuehsow '19 is a violinist from Chicago, IL. She enjoys building intelligent robots in her free time, including but not limited to: a CNC M&M printer, a dinosaur head that moves to stare intently at you, a sassy tour guide bot, a stargazing vacuum, flying ornaments, and smart office supplies.

Many thanks to the following people for their help with OCO:

William Baez (Facilities personnel), **Ellen Bailey** (Asst. to Exec. VP & Campus Services Admin.), **Holly Bennett** (Senior Admin. Asst. for Academic Affairs), **Alanna Boyd** (Interim V.P. for Development, Family & Alumni Relations), **Susan Brisson** (Director of Admission), **Krystal Burgos** (Asst. Dir. for Admission Systems & Operations), **Rae-Anne Butera** (Dean of Students Affairs), **Pedro Cabrera** (Facilities personnel), **Linda Canavan** (Associate Dean for Academic Programs, and Registrar), **Neiza Correia** (Facilities personnel), **Paul Coveney** (Admin. Asst. for Academic Affairs), **Anne-Marie Dorning** (Interim Chief Marketing Office), **Noel Espinal** (Facilities Asst. Director), **Francisco Fernandez** (Facilities personnel), **Jacqueline Fernandez** (Facilities personnel), **Marcella Fornagiel** (Admin. Asst. for Academic Affairs), **Alia Georges** (Asst. Director of Admission and Financial Aid Counselor), **Alyson Goodrow** (Director of Marketing), **Steve Hannabury** (Executive V.P.), **Stephanie Hill** (Asst. to Dean of Admission and Financial Aid and Campus Visit Coordinator), **Joe Hunter** (Asst. V.P. and Director of Communication), **Barbara Luciano** (Admin. Asst. for Academic Affairs), **Vin Manno** (Provost), **Katherine McDonough** (Asst. to the Provost and Dean of the Faculty), **Robinson Medrano** (Facilities personnel), **Susan Mihailidis** (Director of Academic Affairs and Sponsored Programs), **Rick Miller** (President), **Shannon Paleologos** (Director of Annual Giving and Family and Alumni Relations), **Emily Petersell** (Asst. Director of Admission), **Brian Read** (Major Gifts Officer), **Kathleen Rollauer** (Director of Advancement Services), **Emily Roper-Doten** (Dean of Admission and Financial Aid), **Mark Somerville** (Dean of Faculty), **John Sullivan** (Program Director, Needham Lions Club), **Nancy Sullivan** (Asst. to the President), **Ashlee Talbot** (Program Coordinator, Student Affairs and Resources), **Russ Zacharias** (Facilities Director), Music Program Assistants **Joseph Lee '19**, **Jonah Spicher '21**, and **Luis Zuniga '21**.

About OCO ...

The Olin Conductorless Orchestra (OCO)—an ensemble, minus conductor—features instrumentalists in leadership, communicative, and collaborative roles. Dedicated to orchestral performance in the concerted spirit of chamber music, the orchestra forges individual participation, active listening, and group-motivation into performances that have established it as the only conductorless orchestra composed of engineers—in the world!

Recent performances outside Olin include The Great Hall at Cooper Union in New York City and Powers Hall at the Needham Town Hall, both of which received standing ovations. In May 2019, the orchestra will perform in the Bose Auditorium at Bose Corporation, the Mountain, Framingham, MA.

Since it's fall 2002 inception, OCO has been a Project-Based Learning (PBL) course where students operate the classroom, and the professor contributes as guide-on-the-side. In helping to run rehearsals, students develop leadership, teamwork, and communication skills in a large team environment. With an essentially flat hierarchy that incorporates an ever-evolving sense of culture and cooperation as a working ensemble, OCO functions as a team of musicians—regardless of position—comprising students, faculty, and external guests, all dedicated to making good music with intensity, camaraderie, excitement, and humor.



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