



**Olin College** of Engineering

## **Olin Expo Spring 2019**

**May 13, 2019**

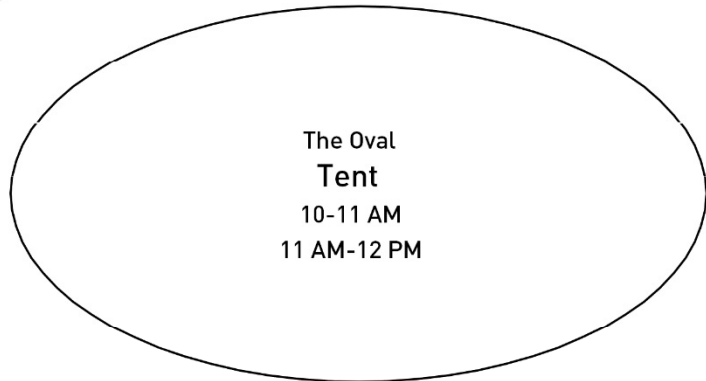
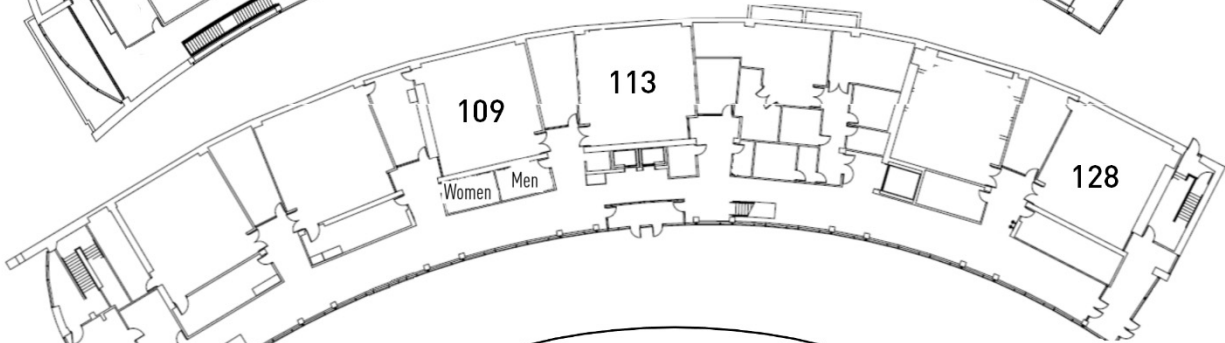
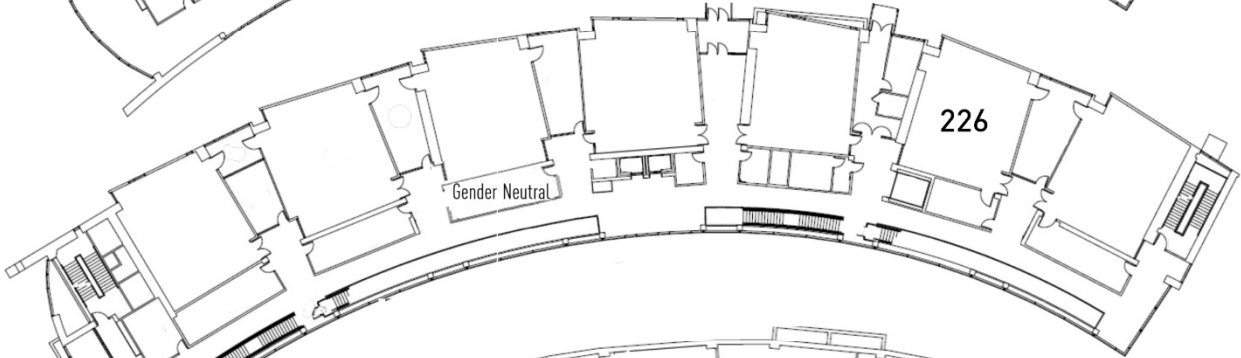
Welcome to Olin Expo Spring 2019! Expo is Olin's festival of creativity and culture. Please explore — presentations, performances, posters, and passionate pursuits abound. And new this year is the first annual faculty, staff, and student Story Slam.

Registration and refreshments can be found in the Milas Hall Atrium, and lunch will be available for purchase in the Campus Center. We can't wait to share what we've been working on, enjoy!

<b>10–11 AM</b>	<b>Projects, posters, presentations, and demonstrations</b> <i>Academic Center 109, 113, 128, 226, 316</i> <i>AC First floor Hallway</i> <i>Under the AC Arch</i> <i>Tent in Oval</i>	<b>Pages 3–6</b>
<b>11 AM–12 PM</b>	<b>Projects, posters, presentations, and demonstrations</b> <i>Under the Academic Center Arch</i> <i>Tent in Oval</i>	<b>Pages 6–8</b>
<b>12–1 PM</b>	<b>Musical Performances</b> <i>Milas Hall Mezzanine</i>	<b>Page 9</b>
<b>1–2:15 PM</b>	<b>Story Slam – stories developed by faculty, staff, and students</b> <i>Norden Auditorium in Milas Hall</i>	<b>Page 9</b>
<b>2:30–3 PM</b>	<b>Olin Conductorless Orchestra</b> <i>Milas Hall Mezzanine</i>	<b>Page 9</b>

**Academic Center**

10-11 AM Only



The Oval  
Tent  
10-11 AM  
11 AM-12 PM

Campus Center  
Dining Hall 1st Floor

Reception/Registration

**Milas Hall**

2nd Floor Mezzanine  
Musical Performances 12-1 PM  
Olin Conductorless Orchestra 2:30-3:15 PM

Norden Auditorium  
Story Slam 1-2:15 PM

<b>Topic and Location</b>	<b>Presenter(s)</b>	<b>Title and Description</b>
<b>Arts, Humanities, and Social Science</b> <i>Academic Center 109</i>	Emma Freedman	<b>Untold Emotions of Learning</b> <i>Handcrafted paper scenes representing voices of real Oliners about their emotional journeys through learning.</i>
<b>Arts, Humanities, and Social Science</b> <i>AC113</i>	Sam Myers	<b>The American Pastime: Baseball as a Reflection of Society</b> <i>Baseball and American culture have been inextricably linked for well over a century. As society has changed through various eras, how has the game evolved with it?</i>
<b>Robotics/ Mechatronics</b> <i>AC128</i>	Maximilian Schommer, Eric Miller, Jamie Cho, Adam Selker, Paul Nadan, Lydia Zuehsow, Nathan Estill, David Tarazi, Dieter Brehm	<b>Olin International Aerial Robotics Competition Club</b> <i>We make autonomous drone swarms! We're a project team at Olin dedicated to solving Mission 8 of the International Aerial Robotics Competition. Come by to learn more about what we're up to, and what the competition is about (or just to talk about drones)!</i>
<b>Robotics</b> <i>AC226</i>	Seung Lyu, Audrey Lee, Jack Mao, Mahima Beltur, Richard Gao	<b>Pathfinder Human Interactions Robotics Laboratory (HIRO)</b> <i>A humanoid robot attempting to be cute like Wall-E that can potentially collaborate with humans and build sophisticated 3D structures. It's called Xamyab. Come to the RoboLab and guess what its name means. Bragging rights for those who get it right!</i>
<b>Computer Engineering, Augmented Reality</b> <i>AC316</i>	Duncan Mazza, Scott Harris, James Ho, Richard Gau, Audrey Lee, Timothy Novack, Daniel Alhadeff	<b>Olin Spacial Computing Lab</b> <i>We have been working on using augmented reality technologies to enhance systems engineering through overlaying 3D models on the real world - come check out our progress!</i>
<b>Passionate Pursuit, Design, Music</b> <i>Academic Center 1st Floor</i>	Joseph Lee	<b>Building a 5-octave Lever Harp</b> <i>Over the course of the last year and a half, I have been working on designing and building a 5-octave lever harp. After well over 120 hours of work, the harp is finally complete. Drop by if you are interested in seeing it, hearing it, or talking about how it was built!</i>
<b>Student Life</b> <i>Academic Center 1st Floor</i>	Paige Pfenninger	<b>Learning to Quilt</b> <i>I spent this semester doing a Passionate Pursuit on learning to quilt. Come see my finished works!</i>
<b>Robotics</b> <i>AC 1st Floor</i>	Maximilian Schommer, Yoonyoung Cho	<b>Micro Robotics</b> <i>Come see the robotic world of Jamie and Max! With two highly developed micro-scale robots, NanoBot and Phonebot, we hope to change the direction of robotics to be more cost effective and prolific!</i>
<b>Software Engineering</b> <i>AC 1st Floor</i>	Sander Miller, Casey May	<b>Sailing Simulator</b> <i>Our sailing simulator is a tool that allows new sailors to learn how to sail from land. It provides visualizations of concepts such as how to sail up wind, and how sail trim affects boat speed. It doubles as a tool for testing the algorithms of an Olin built system that allows the visually impaired to sail independently without the need of a fully sighted guide, allowing the system to be tested inside without the need to go out on the water.</i>
	George (Nick) Steelman, Margaret Crawford	<b>Cane Game!</b> <i>An ios app that aids Orientation and Mobility instructors to teach proper cane skills to children who are blind.</i>
<b>Design</b> <i>1st Floor</i>	David Freeman	<b>My TalkBox</b> <i>Imagine replacing your voicebox with the power of any amplified instrument. I built a talkbox, a device designed in the mid 20th century that does just that. I've got a bunch of disposable mouthpieces, so demo is open to all! Come by and revel in the weird wonder of the TalkBox!</i>
<b>Arts, Humanities, and Social Science</b> <i>AC 1st Floor</i>	David Tarazi	<b>Knafeh: The Palestinian Cheesecake</b> <i>Knafeh is a Palestinian dessert that is a crispy pastry with sweet cheese inside and syrup poured on top. Stop by for a yummy bite you're sure to love!</i>

<b>Topic and Location</b>	<b>Presenter(s)</b>	<b>Title and Description</b>
<b>Mechanical Engineering</b> <i>Under Academic Center Arch</i>	Lacie Fradet, William Fairman, Sparsh Bansal, Olivia Seitelman, Lucky Jordan, Colin Takeda, Nathan Lepore, Adi Sudhakar, Jonathan Zerez, Vienna Scheyer, Dhara Patel, Onur Talu, Alex Wenstrup, Min Jang, Corey Cochran-Lepiz, Anil Patel, James Ho, Naomi Chiu, Junwon Lee, Alex Hoppe, Aurora Bunten, Kevin Guo, Kyle McCracken, Manu Patil	<b>Olin Electric Motorsports</b> <i>OEM is a student project team that designs, manufactures, and builds a Formula SAE Electric Racecar.</i>
<b>Aerospace Engineering</b> <i>Under AC Arch</i>	Cedric Kim, Katie Gosbee, Caroline Rausch, George Tighe, Mason Grabowski, Julian Stone, Chris Lee, Nathan Weil, Sara Ballantyne, Alex Scott, Christopher Lather, Joseph Lee	<b>Design Build Fly</b> <i>Our team has built a fixed wing airplane to compete in the AIAA Design Build Fly Competition. Come see our final competition plane!</i>
<b>Analog and Digital Communication</b> <i>Tent</i>	Allison Basore, Prava Dhulipalla, Minju Kang	<b>Decoding the Meteor-M N2 Satellite with SDR</b> <i>With an interest in understanding practical signal demodulation, we used SDR to decode a Russian weather satellite (the Meteor-M N2) images.</i>
<b>Software Engineering, Accessibility</b> <i>Tent</i>	Maia Materman, Annie Tor, Corey Cochran-Lepiz	<b>Joe Knows!</b> <i>Have you ever tried to walk to a bus stop blindfolded? Probably not. But that's what our friend Joe experiences everyday! Joe is visually impaired, but that doesn't stop him— he's still extremely active and is always on the go. To help Joe out and to raise awareness of the experience of blind and visually impaired folks, we created a Bluetooth-driven app and beacon system designed to help folks of all abilities navigate the local public transportation system!</i>
<b>Arts, Humanities, and Social Science</b> <i>Tent</i>	Lydia Hodges	<b>Nature Out of Perspective</b> <i>Is the way we perceive a lake the same as how a bug perceives a puddle? These photos explore how perspective affects perception, with nature as the model.</i>
	Katya Soltan	<b>Organic Ceramic Sculptures</b> <i>If you couldn't throw clay in perfect, symmetrical shapes, what would it look like? Come see drooping, spiraling pots and slightly alien bowls!</i>
<b>Astronomy and Statistics</b> <i>Tent</i>	Kerry McConnaughay, Anika Payano	<b>Detecting Supernovae</b> <i>See how we used Python to detect whether telescope images contain supernovae or not!</i>
<b>Computer Science</b> <i>Tent</i>	Kristen Behrakis, Emily Lepert	<b>SQL Injection</b> <i>Just how secure is your online data? We built a website and used SQL Injection to steal and alter private data in the website's database.</i>
<b>Data Science</b> <i>Tent</i>	Sreekanth Sajjala	<b>Trust in the Federal Government</b> <i>My data science project which visualizes and analyses how much people trust the Federal government.</i>
<b>Design Showcase</b> <i>Tent</i>	Anna Griffin, Adrian Botran, Andrew Schnurr, Raquel Dunoff, Utsav Gupta	<b>A Photo's Worth a Thousand Words</b> <i>We spent the course of the semester working with local photojournalists in an attempt to see the world from their perspective. With the rise of digital media, this presents a big problem, come see how we designed for a better future.</i>
<b>Design, STEM Education, Accessibility</b> <i>Tent</i>	Vicky McDermott, Matthew Brucker, Michelle Cedillo	<b>Accessible STEM Curriculum in a Box</b> <i>Come learn about the STEM curriculum we designed for middle school students who are blind!</i>

<i>Topic and Location</i>	<i>Presenter(s)</i>	<i>Title and Description</i>
<b>Linguistics</b> <i>Tent</i>	Justin Kunimune	<b><i>Otilip: A Constructed Language</i></b> <i>Otilip is an international auxiliary language, designed for global communication, with the theoretical goal of becoming a universal second language for humanity.</i>
<b>Intersection of STEM and Teaching</b> <i>Tent</i>	Erika Serna	<b><i>Code Ninjas - Learning while Teaching</i></b> <i>As a teacher for Code Ninjas, you take on the role of mentor. My position as a Sensei at Code Ninjas has not only introduced me to coding, it has also made me think about engineering in a context outside of Olin. Come learn about my experience and the engaging things I have done through Code Ninjas.</i>
<b>Aerospace Engineering</b> <i>Tent</i>	Kyle Emmi, Brandon Zhang, Will Fairman, Madi Wyatt, Alex Bahner, Gail Romer, Argyris Kriezis, Nathan Weil, Sparsh Bansal, Sophie Wu	<b><i>Olin Rocketry</i></b> <i>Ever wonder why Kyle keeps sending out those all student parking emails? Stop by to see what your resident rocket nerds have been up to this semester!</i>
<b>Project Team</b> <i>Tent</i>	Shreya Chowdhary, Emma Pan, Sam Daitzman, Arwen Sadler	<b><i>Public Interest Technology Clinic</i></b> <i>The Olin College Public Interest Technology Clinic is a student-led effort to cultivate pathways and opportunities for Olin's students, faculty, and staff to be creators, engineers, designers, artists, and activists who leverage their skills for justice, equity, inclusion, and doing good in the world.</i>
<b>Mechanical Engineering</b> <i>Tent</i>	Harrison Young, Katie Foster	<b><i>Micro Buoyancy Glider</i></b> <i>We developed a novel buoyancy engine allowing for the miniaturization and mass production of buoyancy driven AUVs.</i>
	Katarina Gosbee, Meagan Rittmanic, Sophie Wu, Victor Bianchi, Gail Romer	<b><i>Thunderbird</i></b> <i>Our final project for the class Mechanical Prototyping. We designed a traditional shop sculpture that was based on the Native American myth about a Thunderbird.</i>
<b>RoBOATics</b> <i>Tent</i>	Duncan Mazza, Katie Foster, Katie Gosbee, Katie Thai-Tang, Eric Elder Jacobsen, Noah D'Souza, Jordan Crawford-O'Banner, Minju Kang, Deborah Bowen, Meagen Rittmanic, Prava Dhulipalla, Diego Alvarez, Zack Davenport, Regina Walker, Shashank Swaminathan, Jane Sieving, Elias Gabriel, Kyle Combes, Michael Remley, Nicholas Sherman, Mika Notermann, Tommy Weir	<b><i>Olin Aquatic Robotic Systems (OARS)</i></b> <i>We're a team of Olin students making autonomous robotic sailboats for research applications. Come meet our new mini-boat, see our progress, and learn about where we're heading in the future.</i>
<b>Robotics</b> <i>Tent</i>	Amy Phung, Nathan Estill, Connor Novak, Robert Morris Jr., Jasmine Kamdar	<b><i>Autonomous Small-Scale Tractor Terraforming</i></b> <i>Tiny tractor programmed to terraform dirt terrain, computer simulation of program running on large tractor.</i>
	Colin Snow, Chris Lee	<b><i>Biomimetic Robotic Fish</i></b> <i>We have created an autonomous, biomimetic robotic fish that closely follows both the shape and motion of real animals. We hope to investigate the efficiency of this motion in order to create underwater robots which require less power to operate and can be both cheaper and simpler to produce.</i>
<b>Software Engineering</b> <i>Tent</i>	Thomas Jagielski, Sparsh Bansal	<b><i>Evolving Airfoils</i></b> <i>Evolutionary algorithms for airfoil design.</i>
	Shreya Chowdhary, Megan Ku, Kristin Aoki	<b><i>Candidates' Weekend Guide</i></b> <i>The one-stop-shop for all things Candidates' Weekend, created by students for students.</i>

## 10 – 11 AM

<i>Topic and Location</i>	<i>Presenter(s)</i>	<i>Title and Description</i>
<b>Sustainability</b> <i>Tent</i>	HK Rho, Julia Benton, Kristtiya Guerra, Richard Gao, Chris Lee	<b><i>Kick It</i></b> <i>Cultivating curiosity in kids by enabling them to build their own toys with sustainable and low-cost materials. Come "kick it" with us!</i>
<b>Computing</b> <i>Tent</i>	Alexis Wu, Jeremy Skolder, Yulin Chen	<b><i>Kangaroo Jump</i></b> <i>Come play our game Kangaroo Jump with your friend! It's competitive and fun!</i>
<b>Arts, Humanities, and Social Science</b> <i>Tent</i>	Jonathan Montague	<b><i>Wooden Stool Making</i></b> <i>Come check out my handmade wooden stool! Learn about how to make things out of wood.</i>
<b>Design</b> <i>Tent</i>	Shyheim Russell, Odalys Benitez, Katie Thai-Tang, Mika Notermann	<b><i>The Margy-Tool</i></b> <i>A project designed to help aging adults with physical limitations, with the Margy-tool, we tackle many issues around the home and allowing those to be completed easier with our multipurpose cleaning tool.</i>

## 11 AM – 12 PM

<i>Topic and Location</i>	<i>Presenter(s)</i>	<i>Title and Description</i>
<b>Mechanical Engineering</b> <i>Under Academic Center Arch</i>	Ben Lilly, Rowan Sharman, Jasmine Kamdar, Kyle Bertram, Adrian Botran, Aiden Carley Clopton, Kyle McCracken, Quinn Kelley, Carlos Godinez, Andrew Holmes, Steven Meyer, Gwyn Phelps	<b><i>Olin Baja</i></b> <i>We are a team of ~20 students who design and build an off-road vehicle. We just got back from competition in Tennessee - come see us to learn more!</i>
<b>Software Engineering, Arts, Humanities, and Social Sciences</b> <i>Tent</i>	Dhara Patel, Anthony Krichevskiy	<b><i>Dancing Pythons</i></b> <i>Using Open CV and Spotify API to create a really cool visual that supplements you dancing and listening to music!</i>
<b>Chemistry, Design</b> <i>Tent</i>	Camille Girard, Mason Grabowski, Jocelyn Jimenez, Hwei-Shin Harriman, Sreekanth Sajjala, Jamie Santiago	<b><i>Citizen Science Microfluidic Device</i></b> <i>During the past semester our class has worked together to create a citizen science kits for individuals to test their water for lead. Come learn about microfluidics and citizen science!</i>
<b>Biomedical Engineering</b> <i>Tent</i>	Katarina Gosbee	<b><i>Warning Labels for Medical Simulation Devices</i></b> <i>This semester I've been researching and trying to design an effective warning label for medical simulation devices so they aren't accidentally used in real life hospital settings.</i>
<b>Art + Engineering</b> <i>Tent</i>	Charlie Owen	<b><i>GCSP Portfolio/Adventure Game</i></b> <i>Looking at a personal reflection on solving engineering grand challenges through narrative.</i>
<b>Computer Engineering</b> <i>Tent</i>	Matthew Beaudouin-Lafon, Evan Lloyd New-Schmidt, Adam Novotny	<b><i>COLLASCII</i></b> <i>The terminal based collaborative ASCII drawing application. Come experience the pinnacle of low-tech graphics production!</i>
<b>Student Life</b> <i>Tent</i>	Florian Schwarzingler	<b><i>Making Fire Poi</i></b> <i>I passionately pursued making poi that I could light on fire and spin in OFAC performances.</i>
<b>Student Life, Art</b> <i>Tent</i>	Mads Young	<b><i>Woodworking with Resin</i></b> <i>This semester I taught myself how to work with wood and epoxy resin! Come see the results of my journey!</i>

<b>Topic and Location</b>	<b>Presenter(s)</b>	<b>Title and Description</b>
<b>Design Tent</b>	HK Rho, Kristtiya Guerra, Audrey Lee, Caleb Wursten	<b>OvenHouse</b> <i>Game that creates a suspenseful experience for the player (based off of the Grimm Fairy Tale Hansel and Gretel). The goal of this game is to reintroduce fairy tales and folk traditions to the next generation in a modern style. Come play this game!</i>
	Kaitlin Keil	<b>Co-Curricular Creations</b> <i>As a last hurrah for my final semester, I set out to use some of the amazing tools Olin has to create a couple fun projects with the As Seen on Instructables Co-Curricular.</i>
	Katie Thai-Tang, Eric Elder Jacobsen, Eamon O'Brien, Brandon Zhang, Jonah Spicher	<b>Seven Skies</b> <i>Ever wanted to fly a zeppelin across a post-apocalyptic world, on a journey for the fate of mankind? Seven Skies is a cooperative legacy-style board game for five players, over the course of eight sessions. We have been writing, designing, and testing this game all semester and are launching our playtest kits this summer. Come take a look at what we've made!</i>
	Melissa Anthony, Emma Pan, Sabrina Pereira, Annie Sheil, Nathan Shuster	<b>License for Consent!</b> <i>We have created a bold hypothetical system in which sexual health education is treated like Driver's Ed, with training, testing, informed certification of consent, and repercussions for infractions. This idea is inspired by our interviews and co-design sessions with Sexual Health Educators throughout the semester, for the class UOCD. Stop by to ask questions and discuss with us!</i>
	Sarah Deng, Bryce Mann, Vienna Scheyer, Mika Notermann	<b>Tactile Route Markers for Adaptive Rock Climbing</b> <i>UOCD project to increase exposure of adaptive sports as well as increase independence for visually impaired rock climbers.</i>
	Sarah Barden	<b>Environmental Impact of Toaster Ovens</b> <i>How much environmental impact does your toaster oven have? In Sustainable Design, we interviewed toaster oven users and took a toaster oven apart to understand its entire life cycle - what it's made of, how it's manufactured and distributed, how often it's used, how long it's kept, and how it's disposed of. This assessment of impact across all stages of a product's life is called "life-cycle analysis". Stop by to learn more!</i>
<b>Electrical Engineering Tent</b>	Maximilian Schommer, Eric Miller	<b>Worlds Flashiest Business Card</b> <i>Have you ever wanted a flashy business card that at the same time reflects deeply who you are as a person? Well have we got a show for you!</i>
	Anusha Datar	<b>Passionate Pursuit: Software-Defined Radio</b> <i>Come chat with me about my passionate pursuit project in software defined radio and amateur radio in general!</i>
	Michael Remley	<b>Human Motion Project</b> <i>A project developing an accessible alternative to camera based motion capture systems.</i>
<b>Robotics Tent</b>	Paul Nadan, Jeremy Ryan, Sophia Nielsen	<b>Asteroid Hexapod Rover</b> <i>This 6-legged robotic explorer is back for another expo! Now featuring a new mission, custom electronics, laser vision, sharper feet, and smarter algorithms.</i>

11 AM – 12 PM

<i>Topic and Location</i>	<i>Presenter(s)</i>	<i>Title and Description</i>
<b>Arts, Humanities, and Social Sciences</b> <i>Tent</i>	Griffith Stites	<b><i>Laser Cut Computer Case and Poetry</i></b> <i>A match made in heaven. A tiny laser cut computer case and some gender related poetry.</i>
	Arpan Rau, Jared Briskman, Jonah Spicher, Katya Soltan, Margaret Crawford, Allison Basore, Colin Snow, Chloe Grubb	<b><i>The Great Olin Bread Bake-Off</i></b> <i>Olin's bakers throw down in the battle of the century: Who can combine flour, water, yeast, salt, and additional ingredients into the best bread?</i>
	Annie Tor, Maia Materman, Nathan Weil	<b><i>Art and Wellness for Disadvantaged Communities</i></b> <i>Hello friends! Swing by to learn about the value of putting your values first, the power of Arts, and what we've done to help some very cool people in ways they want to be helped! Bonus: you might also learn about Nathan's nameless car, Annie's favorite road trip snacks, and Maia's music taste!</i>
	Sam Daitzman, Alex Hindelang	<b><i>BOW Zine Collective</i></b> <i>Zines are bound creative works. We spent this year making and sharing DIY magazines and books, and running open workshops to share our skills and resources. Come learn to make your own book! More info at <a href="http://zines.fun">http://zines.fun</a></i>
<b>Mechanical Engineering</b> <i>Tent</i>	Colin Snow	<b><i>Carbon Fiber Filament Winder</i></b> <i>I have created a machine that spins long strands of carbon fiber around a mandrel to create composite tubes with variable strength and stiffness characteristics. This allows for almost any size and shape of tube to be made from a single raw material.</i>
	Everardo Gonzalez, Leila Merzenich, Anna Letcher Hartman, Olivia Seitelman	<b><i>Panic At The Renaissance</i></b> <i>An evil, giant squid lurking in the sand slowly attacking its prey. A submarine rocking in the squid's slimy grasp. A swimming scuba man trying hastily to kick and break free of the squid's tense grip. Welcome to a world where panic replaces peace - Welcome to MechProto.</i>
	Jingyi Xu	<b><i>Machining and Kinematics</i></b> <i>I machined a mini vise gripper, a double tape dispenser, and learned about the kinematics of a 6 degree-of-freedom robot arm.</i>
	Becca Suchower, Eric Elder Jacobsen, Katie Gosbee	<b><i>The Astrolabe</i></b> <i>Come by and see a live demo of our kinetic sculpture based on the astrolabe, a navigational tool that was widely used in the Renaissance!</i>
	Everardo Gonzalez, Amy Phung, Benjamin Ziemann, Eric Elder-Jacobsen	<b><i>An Escape from the Underworld</i></b> <i>Come see a kinetic sculpture depicting Orpheus's valiant attempt to save his beloved Eurydice from the depths of the underworld!</i>
<b>Software Engineering</b> <i>Tent</i>	Chris Lee, Manu Patil, Colin Takeda, Richard Gao	<b><i>Adventure Unlocked</i></b> <i>Come play a generative text adventure! Every play through is different!</i>
	Riya Aggarwal, Dieter Brehm, Elias Gabriel, Maalvika Bhat	<b><i>Let's Sched It</i></b> <i>A free service which helps you find the best time for a group to meet, conveniently.</i>



**12 – 1 PM**  
**Musical Performances**

<i>Topic and Location</i>	<i>Performer(s)</i>	<i>Title and Description</i>
<b>Music</b> <i>Milas Hall Mezzanine</i>	Emma Westerhoff, Duncan Mazza, James Ho, Jared Briskman, Jonah Spear, Charlie Weiss, Tobias Shapinsky	<b><i>Olin Jazz Combo</i></b> <i>We play jazz! And improvise!</i>
	Maximilian Schommer	<b><i>Le Coucou by Daquin</i></b> <i>I learned accordion this summer! It was pretty fun, and this is one of the pieces I learned.</i>
	Emma Westerhoff, Connor Novak, Anne Ku	<b><i>Classical Piano Trio</i></b> <i>Performing the 2nd and 3rd movements of Debussy's Piano Trio in G Major, and the Finale from Mendelssohn's Trio in C Minor.</i>
	Katie Butler, Kimberly Winter, Lauren Gulland, Linnea Laux, Gretchen Rice, Colvin Chapman, Tobias Shapinsky, Annie Kroo, Adam Selker, Megan Ku, Meagan Rittmanic, Nathan Wiel, Katie Goldstein, Eriel Wiston	<b><i>PowerChords</i></b> <i>Sporting their characteristic "flowerchords" since 2007, PowerChords is the oldest a cappella group at Olin College of Engineering. Despite their wide range of interests, they have found unity in all styles of a cappella through powerful arrangement style and electric enthusiasm during performances.</i>

**1-2:15 PM**  
**Story Slam**

<i>Topic and Location</i>	<i>Presenter(s)</i>		
<b>Storytelling</b> <i>Norden Auditorium in Milas Hall</i>	Hwei-Shin Harriman	Adva Waranyuwat	Charlie Weiss
	Amon Millner	Micah Reid	Mark Somerville
	Erika A. Serna	Linda Vanasupa	Antonio Perez

**2:30 – 3:15 PM**  
**Olin Conductorless Orchestra**

<i>Topic and Location</i>	<i>Performer(s)</i>	<i>Title and Description</i>
<b>Music</b> <i>Milas Hall Mezzanine</i>	Serena Chen, Anne Ku, Margaret Rosner, Annie Tor, Brandon Zhang, Lydia Zuehsow—violins; Emma Westerhoff—cello; Jeremy Ryan, Eric Miller—flutes; Shashank Swaminathan—alto flute; Jack Mao—alto sax; Kyle Emmi—trumpet; Aditya Sudhakar—euphonium; Paul Nadan—trombone; Joseph Lee—timpani; Jonah Spicher—piano	<b><i>Olin Conductorless Orchestra</i></b> <i>Come hear OCO perform the World Premiere of Journey, an AHS Capstone work by Joseph Lee '19, as well as other works!</i>

**Thank you for being part of Olin Expo Spring 2019!**



1000 Olin Way

Needham, MA 02492

[www.olin.edu](http://www.olin.edu)