



Youth for the Environment and Sustainability

▪ 2016 CONFERENCE ▪

#YESconf16

**Saturday, January 30, 2016
UC Berkeley Lawrence Hall of Science, Berkeley**

Hosted by:

The Bay Area Air Quality Management District and the Metropolitan Transportation Commission



**BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT**



**METROPOLITAN
TRANSPORTATION
COMMISSION**



Post, Tweet, Tag, Share!

Tag #YESConf16 in social media and receive fabulous prizes throughout the day!

www.facebook.com/YouthfortheEnvironmentandSustainability

<https://instagram.com/yesconference>

Use the hashtag: #YESconf16

2016 YES! Conference Agenda

9:30 a.m. Doors Open

C-Level Lobby	Register & Pick up Your Conference Packet Sign in and pick up your agenda folder, swag bag, and t-shirt. Register for your preferred session with the BikeMobile and the BayMobile.
C-Level Lobby	Breakfast Youth Uprising, Corners Cafe Grab a scone and a beverage to fuel your day. Corners Cafe is a local cafe/caterer that works to transform East Oakland into a healthy and economically robust community by developing the leadership of youth and young adults and improving the systems that impact them.
Auditorium	Icebreaker Activities & Raffle Prize Drawings Create posters to rep' your city or your passion. Meet 300+ new friends, or just 1, through some fun group activities – you can also win gift cards! Music/Dancing DJ Meleş

Ongoing Activities

C-Level Lobby	Poster Sessions Air Quality Conditions in the City of El Cerrito Korematsu Middle School students at the East Bay Academy for Young Scientists investigated air quality to determine areas that had the highest concentrations of particulate matter. Students selected test sites that represented the varying land-uses and geography found in El Cerrito. Airborne Particulates Lab Vista High School students collected and measured the relative amount of particulate material in the air around their homes and at their school site. They then mapped the relationship between these measurements and manufacturing facilities and freeways to determine if there is a correlation between the facilities and the amount of particulate matter. City of Berkeley Bicycle Master Plan Update The Bike Plan surveyed residents based on the “Four Types of Cyclists.” The results will be compared to the existing and proposed bikeway network to determine the Level of Traffic Stress. Plan recommendations will focus on closing gaps in the Low Stress network and provide next steps for adopting and implementing the Plan.
C-Level Lobby	Photo Booth Stop by the Say Ya! Photobooth to show your love for the environment!
C-Level Lobby	Exhibitors Spare the Air Youth – Conference Host! Spare the Air Youth aims to educate, inspire, and empower youth and families in the Bay Area to choose walking, bicycling, carpooling, and transit as their primary means of transportation by providing regional resources and coordination.



C-Level Lobby

Exhibitors (continued)

Bay Area Air Quality Management District – Conference Host!

The Air District aims to create a healthy breathing environment for every Bay Area resident while protecting and improving public health, air quality, and the global climate. Stop by and say hello to one of your conference hosts!

Bike East Bay

Bike East Bay promotes healthy, sustainable communities by making bicycling safe, fun, and accessible in Alameda and Contra Costa Counties. Bike East Bay is working on an update to Berkeley's Bicycle Plan and needs input, ideas and volunteer help to make Berkeley the most bike-friendly city in the US!

Breathe California

Through grassroots education, advocacy, and health services, Breathe California fights lung disease, advocates for clean air, and promotes public health. Breathe California works to improve air quality, reduce the impact of asthma, reduce tobacco use and exposure to second-hand smoke, and support research to find cures for lung diseases.

Metropolitan Transportation Commission – Conference Host!

MTC is the transportation planning, financing and coordinating agency for San Francisco Bay Area. We're part of every trip you take. MTC supports the streets, roads, highways, transit systems, airports and other transportation resources that help the region's 7 million residents get to where they need to go.

Oakland Urban Forestry Forum

Some places in Oakland have a very low tree canopy, as little as 1% in some cases. The State of California is prioritizing urban forestry under the environmental law AB32. Urban forestry reduces carbon emissions and air pollution, aids stormwater retention, mitigates the heat island effect, and offers aesthetic and economic benefits, making residents feel safer and increasing property values.

Peace Corps

The Peace Corps sends Americans abroad to tackle the most pressing needs of people around the world. Peace Corps Volunteers work toward sustainable change that lives on long after their service. Volunteers bring home their knowledge and experiences—and a global outlook—that enriches the lives of those around them.

San Francisco Bicycle Coalition

The San Francisco Bicycle Coalition has been promoting bicycling for everyday transportation for over forty years. We're transforming San Francisco streets and neighborhoods into more livable and safe places for people of all ages, through our day-to-day advocacy, education, and our partnerships with the City and community.

Santa Clara Valley Water District

The Water District manages the County's water, flood protection, and stream stewardship programs. Our award-winning Education Outreach Program has interactive lessons on every water topic imaginable and coordinates the Youth Stewardship Commission, which provides students an opportunity to learn about water issues from an inside perspective.

Walk Oakland Bike Oakland

Since 2007, Walk Oakland Bike Oakland has fought for adequate bike and pedestrian facilities throughout Oakland. We are working to improve neighborhood vitality by making walking and bicycling safe, easy, accessible, and fun!

10:30 a.m. Opening Welcome

Auditorium



Isabella "Izzi" Rader, Master of Ceremonies

Izzi began volunteering with the ECO2school Program in 2012. Today, she is president of the Eco Club at Windsor High and serves on the Center for Climate Protection's Youth Advisory Board. The U.S Department of Education and Cultural Affairs recently invited her to travel to China to learn about environmental education. Izzi is passionate about inspiring others to take action against climate change.



Mayor Tom Bates, City of Berkeley, Member of the Board of Directors for MTC & the Air District

Mayor Bates co-founded the East Bay Green Corridor Partnership, which seeks to "create a thriving region of green technology innovation, commercialization and economic development that generates high quality jobs and meets environmental and social goals."



**SUPER BOWL 50
HOST COMMITTEE**

Ethan Steinberg, Play Your Part, Super Bowl 50 Host Committee

Super Bowl 50 has launched a "Play Your Part" campaign aimed at creating a sustainable Super Bowl event where fans will be recognized and rewarded for their Net Positive waste free actions.

10:40 a.m. Keynote Speaker

Auditorium



Steve Santos, Oakland College Prep Academy

Steve promotes youth-led innovation in his community. Working alongside Attitudinal Healing Connection (AHC), a local non-profit, Steve has participated in the West Oakland Youth Mini-Grant Committee, ArtEsteem, and spoke on behalf of youth per request of the Alameda Public Health Department at the City of Oakland's public hearing on coal.

10:50 a.m. Workshops — Session 1	
Auditorium	<p>Creating Safer & Healthier Transportation to School – For Youth, By Youth</p> <p>Alameda County Safe Routes to School (SRTS) <i>Jessica Lo and Nicole Bagdadlian, Castro Valley High; Reshma Pyala, Foothill High; Antonio Contreras, San Lorenzo High; Evan Luu and Maryum Hester, Irvington High; Ileri Morales, Albany High; Janie Chen, Oakland Technical High</i></p> <p>What happens when high school students are fully engaged and empowered to take the lead in Safe Routes to Schools programming? True leadership and creativity followed by effective actions that shift school-wide culture and result in lasting changes to school and community infrastructure. Learn from the successful Alameda County Safe Routes to Schools program!</p>
Room 150	<p>Groundwork Richmond Changing Places, Changing Lives</p> <p>Groundwork Richmond <i>Javier Ochoa-Reyes, Green Team Manager; Sandra Flores, Department of the Interior VISTA; Morgan Valdivieso, Intern; Holly Keuth and Kevin Junze Gao, Contra Costa Community College</i></p> <p>Working to restore Richmond's urban forest, Groundwork Richmond improves air quality, responds to climate change, and trains the next generation of stewards. Presenters will provide an overview of California's Global Warming Solutions Act, the Department of Forestry and Fire's Urban and Community Forests program, and the community's response.</p>
Room 119 A&B	<p>Concepts: Novel Viewpoints On Being 'Green' <i>Moderator: Joey Yan, Stanford University Civil and Environmental Engineering Program</i></p> <p>Water: Earth's Currency, <i>Madeline Libbey, Sonoma Valley High School</i> Madeline will talk about how water and money are similar resources. She will explore recent events regarding the drought, legislation, and new global developments that might help with water shortages.</p> <p>Mercury in the San Francisco Bay, <i>McKenna Smith, Saint Francis High School</i> McKenna will talk about her ongoing, four-year project to investigate mercury in our local waters. She will go over its effects on our local habitat, fisheries, and the implications for our health.</p> <p>Effective Environmentalism, <i>Owen Shen, Irvington High School</i> Owen will make the case for a new mindset towards environmental activism, bringing in ideas from effective altruism. He will give examples of "better" ways of helping the environment and finish with a list of resources and groups for future participation.</p>
C-Level Lawn	<p>The BayMobile — Our Changing Oceans</p> <p>Aquarium of the Bay What lives in the San Francisco Bay? What can we do to help these critters? Discover how increased carbon dioxide emissions are shifting the delicate balance in our Bay and oceans through experimentation, discussion, and hands-on exploration into the marine ecosystem just outside our door!</p> <p>The Bay Area BikeMobile – Bike Repair Workshop</p> <p>Local Motion Learn the basics of bike mechanics. Participants will have the opportunity to repair a flat tire and learn all about the anatomy of a bike, as well as how to keep your bike safe!</p>

11:40 a.m. **LUNCH**

C-Level
Lobby

Lunch

Youth Uprising, Corners Cafe

Show your badge to get your food. Find your table by county to meet others working on climate change, public health, air quality, and exciting youth leadership projects in your community.

Bike Blender

YBike

Have you built up an appetite with your excitement? YBike is happy to help you turn your energy into a delicious, nutritious smoothie by taking a spin on one of our bike blenders. Share the sweet rewards with all the new friends you make!

Second Raffle Prize Drawing

Two students who used Facebook, Instagram or Twitter and tagged the YES Conference will be chosen for collectible Super Bowl 50 items and or gift cards!

Explore Lawrence Hall of Science

YES attendees have free admission to all exhibits during the conference.

Auditorium

Music/Dancing

DJ Meleş

C-Level Lawn

Check out the Mobiles!

Bay Area Bike Mobile, Local Motion

BayMobile, Aquarium of the Bay



The **BayMobile** brings the Aquarium of the Bay to you! This mobile lab brings science experiments and animal ambassadors to teach students about climate change.



The **BikeMobile's** free, mobile, hands-on repair clinics get people back on their bikes and help them become more confident and empowered riders.

12:50 p.m. Workshops — Session 2	
Auditorium	<p>Climate Café</p> <p>Center for Climate Education Youth Advisory Board <i>Amy Jolly, Quiana Stodder, Geena Espinoza, Katie Morrison, Cassy Moretto, Shivani Kumar, Rajan Uppal, and Solana Jolly</i></p> <p>Board members will share highlights and insights about the Green Teen Gathering, a youth organized, youth-led conference on how to make schools more sustainable. They will model one of the key Green Teen components—the round table discussions—during which participants can learn and share about ECO2school, the Youth Advisory Board, and climate change.</p>
Room 150	<p>Selfishness vs. Save the Planet, the Ongoing Battle between Green & Greed</p> <p>San Ramon Teen Council <i>Sharonya Shivaprasad, California High; Rhea Misra, Dougherty Valley High</i></p> <p>In an interactive presentation, the presenters will use an average cumulative survey to determine the carbon footprints of the audience members. They will show a student-created movie showcasing the dangers of carbon footprint on society and the world and explain how people can reduce their carbon footprint.</p>
Room 119 A&B	<p>Exceeding the Challenge in Middle Schools</p> <p>Marin County Safe Routes to School <i>Theo Koffman and Kara Kneafsey, Mill Valley Middle School; Anna Silverman, Kent Middle School; Santy Hernandez Maldonado, Miller Creek Middle School</i></p> <p>At many middle schools in Marin County, half or more of the school's population is using active transportation – walking and rolling to school. Students will share their experiences to show what a “tipping point” looks like at schools where “green transportation” is the norm through years of sustained Safe Routes to Schools programs and events. Student leaders from around Marin County will speak about their successes.</p>
C-Level Lawn	<p>The BayMobile — Our Changing Oceans</p> <p>Aquarium of the Bay What lives in the San Francisco Bay? What can we do to help these critters? Discover how increased carbon dioxide emissions are shifting the delicate balance in our Bay and oceans through experimentation, discussion and hands-on exploration into the marine ecosystem just outside our door!</p> <p>The Bay Area Bike Mobile – Bike Repair Workshop</p> <p>Local Motion Learn the basics of bike mechanics. Participants will have the opportunity to repair a flat tire and learn all about the anatomy of a bike, as well as how to keep your bike safe!</p>

1:40 p.m. Workshops — Session 3

Auditorium

Project Enybody

Palo Alto High School Students

*William Zhou, Emma Goldsmith, Noga Hurwitz, Leo Trejo, and Vivan Wu, Palo Alto High;
Shannon Yang and Joy Huan, Gunn High*

Project Enybody is a green teen group founded by high school students and sponsored by the City of Palo Alto. **Eny** stands for **E**arth **N**eeds **Y**ou and embodies the idea that "enybody" can make a difference. We will cover what we've found to be successful as a "green" youth group that hosts events and projects that fight against and raise awareness about climate change.

Room 150

Green Innovators

Moderator: Steve Santos, Oakland College Prep Academy

Nanotechnology and Machine Learning: Today's attempts at creating tomorrow's alternative fuels

Samarth Sandeep and Mulan Zhao, Amador Valley High School

Spysea aims to build a seawater-powered SUV that does not damage the environment. We will focus on the possibilities and potentials of alternative fuel: Spysea's SUV will be powered with hydrogen gas gained from seawater electrolysis, which uses electricity generated from a photovoltaic cell.

AirForU Mobile Application –

Aanchal Kohli, Doctoral Candidate, UCLA Institute of the Environment and Sustainability

AirForU enables you to better understand of your local air quality conditions and how air quality affects your health. Poor air quality disproportionately affects asthmatics, heart and lung disease patients, pregnant women, young children, and the elderly. With AirForU, you can now access local air quality updates from your mobile phone, so that you can take steps to protect your health and the health of your family.

Room 119
A & B

“Walk and Roll” Bruin Style

California Junior Scholarship Federation (CJSF) Brownell Middle School Students

Ethan Chargin, Bettye Chargin, Jada Hernandez, and Marianna Bundros, Brownell Middle School

From paper to practice: CJSF middle school students from Gilroy Unified will share their plan to make getting to school a safer experience. They will present data collected at their first Walk and Roll event and the plan they developed and presented to the City of Gilroy's engineering department, the school district, and the police department.

C-Level Lawn

The BayMobile — Our Changing Oceans

Aquarium of the Bay

What lives in the San Francisco Bay? What can we do to help these critters? Discover how increased carbon dioxide emissions are shifting the delicate balance in our Bay and oceans through experimentation, discussion, and hands-on exploration into the marine ecosystem just outside our door!

The Bay Area Bike Mobile – Bike Repair Workshop

Local Motion

Learn the basics of bike mechanics. Participants will have the opportunity to repair a flat tire and learn all about the anatomy of a bike, as well as how to keep your bike safe!

2:30 p.m. Student Keynote Speaker

Auditorium



Destiny Ellingberg, Pittsburg High School, Co-Founder, Freedom Breathers

Destiny has always been a highly involved student, from the numerous clubs she runs at her school and the sports she plays to being an active member in her community. Destiny has always cared about the world around her, but not until recently did she decide to take a stand in truly making some changes. She is the founder of an independent group called Freedom Breathers that seeks to provide the citizens of Pittsburg with more air monitors and data about what is in the air they breathe.

2:45 p.m. Closing Ceremony

Auditorium

Speaker Awards

YES Conference Student Advisory Committee and planning staff

Thank you to our great speakers!

Evaluation Forms & Big Raffle Prize Drawing

Fill out your evaluation forms and enter the drawing to win! At least 10 names will be drawn. Your completed evaluation form is your ticket to win some great prizes including but not limited to:

- Toshiba Laptop Bundle w/ USB Drive, and carrier
- 2 Tickets to Super Bowl 50 Fan Village
- 2 Google Chromecasts
- 4 Bluetooth Power Bank mini-stereos
- Beats Headphones
- 2 \$250 gift card to a bike shop

3:00 Group Photo

Forces that Shape the Bay Area
(back patio)

Assemble on the patio for a photo with all the conference attendees.

3:45 Gather Outside for Shuttle Buses

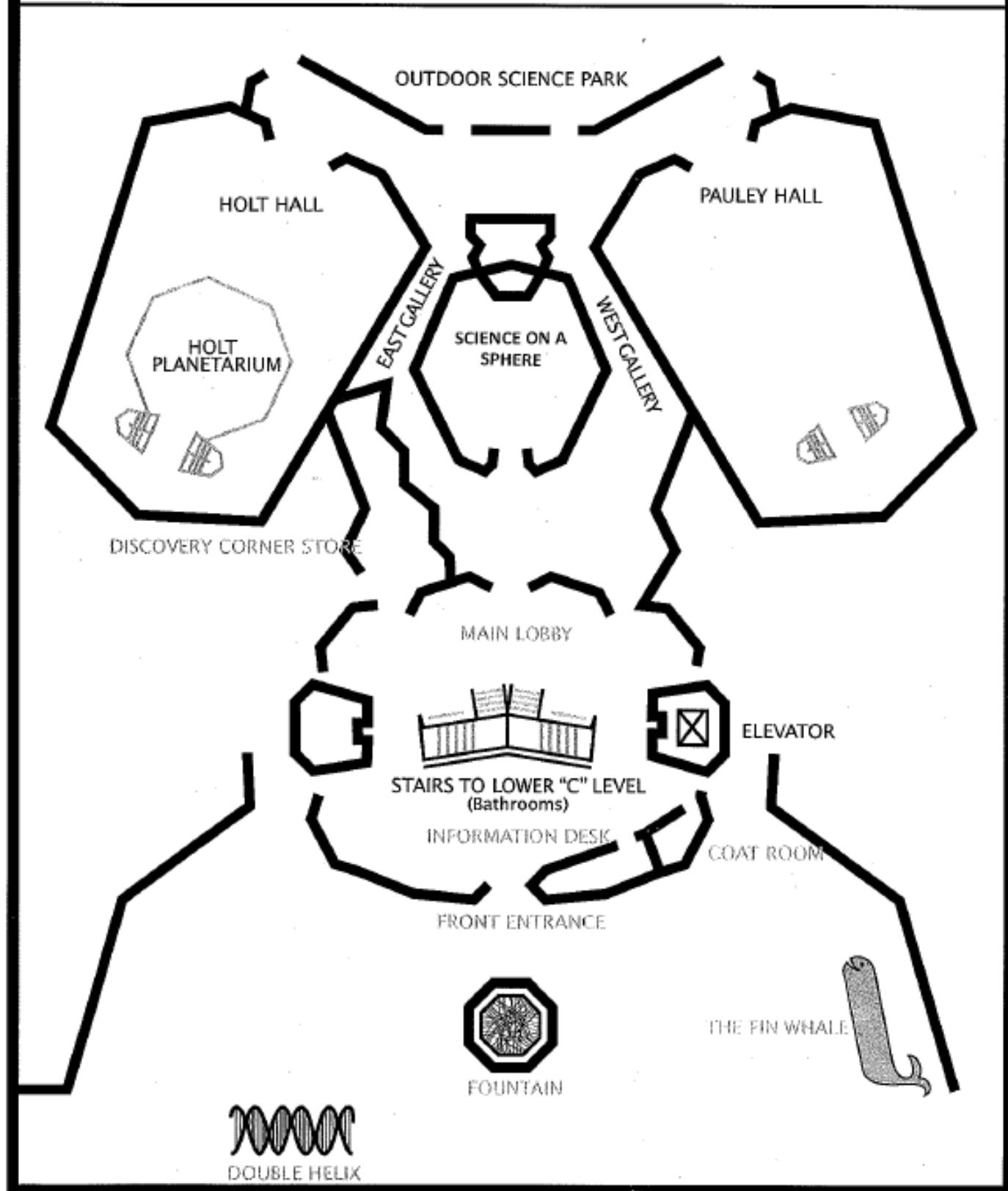
4:00 Shuttle Buses Leave

Thank you to the members of the Spare the Air Youth Technical Advisory Committee, the YES Conference Student Advisory and Planning Committees for volunteering their time and ideas to help make the conference a success!

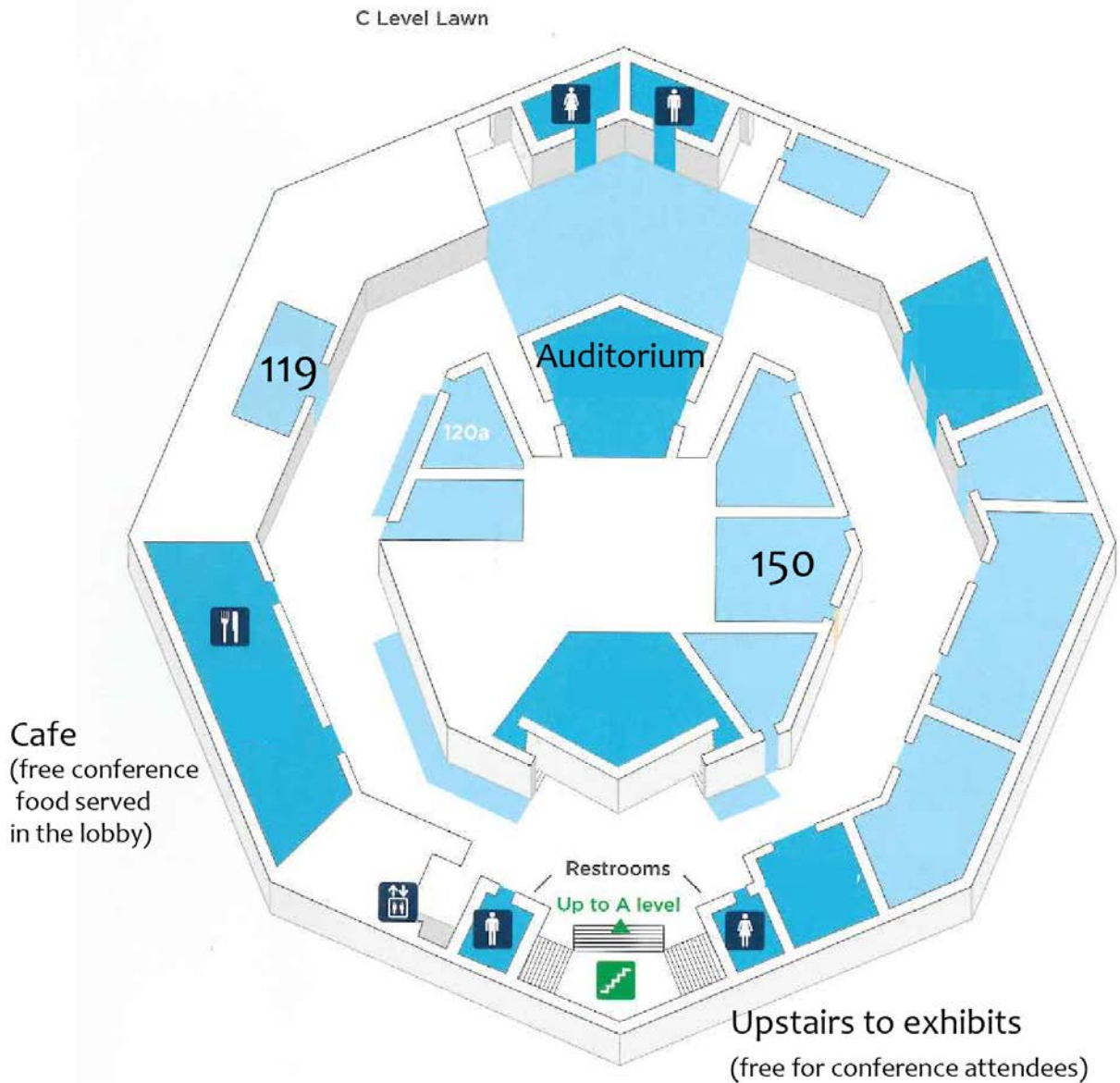
WELCOME TO THE

LAWRENCE HALL OF SCIENCE

The Lawrence Hall of Science is the University of California at Berkeley's public science center and family museum.



YES! Conference Map



Spare the Air Youth

***Empowering youth and families to create healthy, safe,
and sustainable communities!***