

# COMPUTING IN CARDIOLOGY

October 1-4, 2023  
Atlanta, GA, USA



EMORY  
UNIVERSITY



MOREHOUSE  
SCHOOL OF MEDICINE



Georgia  
Tech.

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Sponsors

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GORDON AND BETTY  
**MOORE**  
FOUNDATION

## Welcome to Atlanta



With great enthusiasm, we extend a cordial welcome to all attendees on behalf of the Local Organizing Committee to the 50th Computing in Cardiology 2023. It is our privilege to host this momentous event, the 50th CinC conference, here in the vibrant city of Atlanta. The conference is hosted jointly by Emory University, Morehouse School of Medicine, and Georgia Institute of Technology, a collaboration that underscores the significance of this gathering at the intersection of healthcare and technology.

In Atlanta, our dedication to embracing diversity is not just a celebration - it is a commitment. As a city that stands as a melting pot of cultures, each enriching our vibrant mosaic of life, you will find this spirit of harmonious coexistence. Just as Atlanta's neighborhoods are interwoven by a rich tapestry of cultures, similarly, the ideas and perspective you bring to this gathering form a diverse and vibrant mosaic. As you engage with the conference's discourse and collaborate with fellow experts, you will discover that the essence of Atlanta's inclusive environment mirrors the collaborative essence of CinC 2023 conference.

The setting for the CinC 2023 conference is the Georgia Tech Global Learning Center, nestled in Atlanta's midtown neighborhood. This prime location offers convenient access from the Hartsfield-Jackson Atlanta International Airport. The midtown area not only facilitates easy reach to Sunday Symposium venue but also to a selection of hotels, numerous restaurants, and cultural institutions, enhancing the overall conference experience.

The Sunday Symposium addresses health equity and its relationship to cardiovascular disease, featuring presentations by esteemed experts from Georgia's foremost universities. In addition to this enlightening event, our social activities offer you the perfect chance to immerse yourself in the vibrancy of Atlanta. From exploring the wonders of the world's largest Georgia Aquarium to embarking on insightful bike tours that explore Civil Rights Movement history.

The organizing committee is looking forward to meeting you in Atlanta in 2023!

The CinC 2023 Local Organization Committee



## Board of Directors

### **President**

Rob MacLeod, PhD  
SCI Institute, University of Utah  
Salt Lake City, Utah, USA

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LTSI, University of Rennes  
Rennes, France

Olivier Meste, PhD  
I3S, Université Cote d'Azur  
Sophia Antipolis, France

Pyotr Platonov, MD, PhD  
Lund University  
Lund, Sweden

## Ex-Officio

### **Chair of the ESC Working Group on e-Cardiology**

Jose Millet Roig, PhD  
Universitat Politecnica de Valencia  
Valencia, Spain

### **Director, PhysioNet/CinC Challenge**

Gari Clifford, DPhil  
Emory University & Georgia Institute of  
Technology, Atlanta, USA

## Local Organizing Committee

**Prof. Gari Clifford**, Co-Chair, Emory University & Georgia Institute of Technology

**Prof. Matthew Reyna**, Co-Chair, Emory University

**Prof. Herman Taylor, Jr.**, Co-Chair, Morehouse School of Medicine

**Prof. May Wang**, Co-Chair, Georgia Institute of Technology

**Prof. Omer Inan**, Co-Chair, Georgia Institute of Technology

**Prof. Reza Sameni**, Emory University

**Prof. Ali Bahrami Rad**, Emory University

## Welcome from the President

Dear CinC 2023 Participant,

Welcome to CinC2023, our 50<sup>th</sup> edition!!

We are a mostly in-person event and will welcome your comments on how the current format works for you. Supporting hybrid participation adds expense as it also enables participation for a wide range of investigators who might not otherwise attend. It is only a partial substitute for the many benefits of being able to interact and network with members of our field, but it is better than nothing. In this time of climate crisis, the burden our conference places on the environment is a further, critical component. Please help us with your feedback on this topic!

Being in the US again after almost 10 years seems timely and meaningful in this, our 50<sup>th</sup> anniversary. ‘Computers in Cardiology’, as it was known then, was founded in the US and remains a registered US Society. However, our membership base and perspective have always been international and we continue to welcome participation from around the world. 50 years is a long time and we have seen—and enabled—many changes and incredible progress in our broad field of computing in cardiology. Fortunately, we are only just closer to solving major medical problems of our time, with much more still to do—job security is high.

A new conference is also a time to reflect on events of the recent past. We have had losses close to home with the passing of Bill Sanders on May 21. Bill was a legend of CinC, one of the early members and a former Secretary and then President of the CinC Board. This year’s poster competition, for many years supported by Bill and his wife, Gary, will include some extra prizes to commemorate Bill’s enormous contribution to the Society. We also continue to see losses around the world, from the endless, grinding insanity of the war in Ukraine, to the recent earthquakes in Morocco. I hope our days together in Atlanta can provide some respite but also forge the personal international ties that allow us to resolve conflicts and deal with challenges together.

Finally, our deep thanks to the local organizers this year, especially Gari Clifford, Matt Reyna, and Hannah Lee. Only those who have done it can appreciate the commitment and dedication required to host a conference of our size and complexity.

This is also a time of change with the [CinC Board of Directors](#). Each Board member can serve up to three three-year terms and we are completing one of those cycles. This year, we extend our deepest special to Cristiana Corsi and Olaf Dössel, who will step off the Board after 9 years of amazing service. Fortunately, we will add three new outstanding Board members, in anticipation of my completing my term after the coming year. We are fortunate to have members of the society ready to step into these substantial roles; ours is very much a **working** board so please thank Board members you see in Atlanta and especially Cristiana and Olaf.

And, as always, I look forward to seeing and talking with you in Atlanta!

Rob MacLeod, President, Computing in Cardiology

## Maps

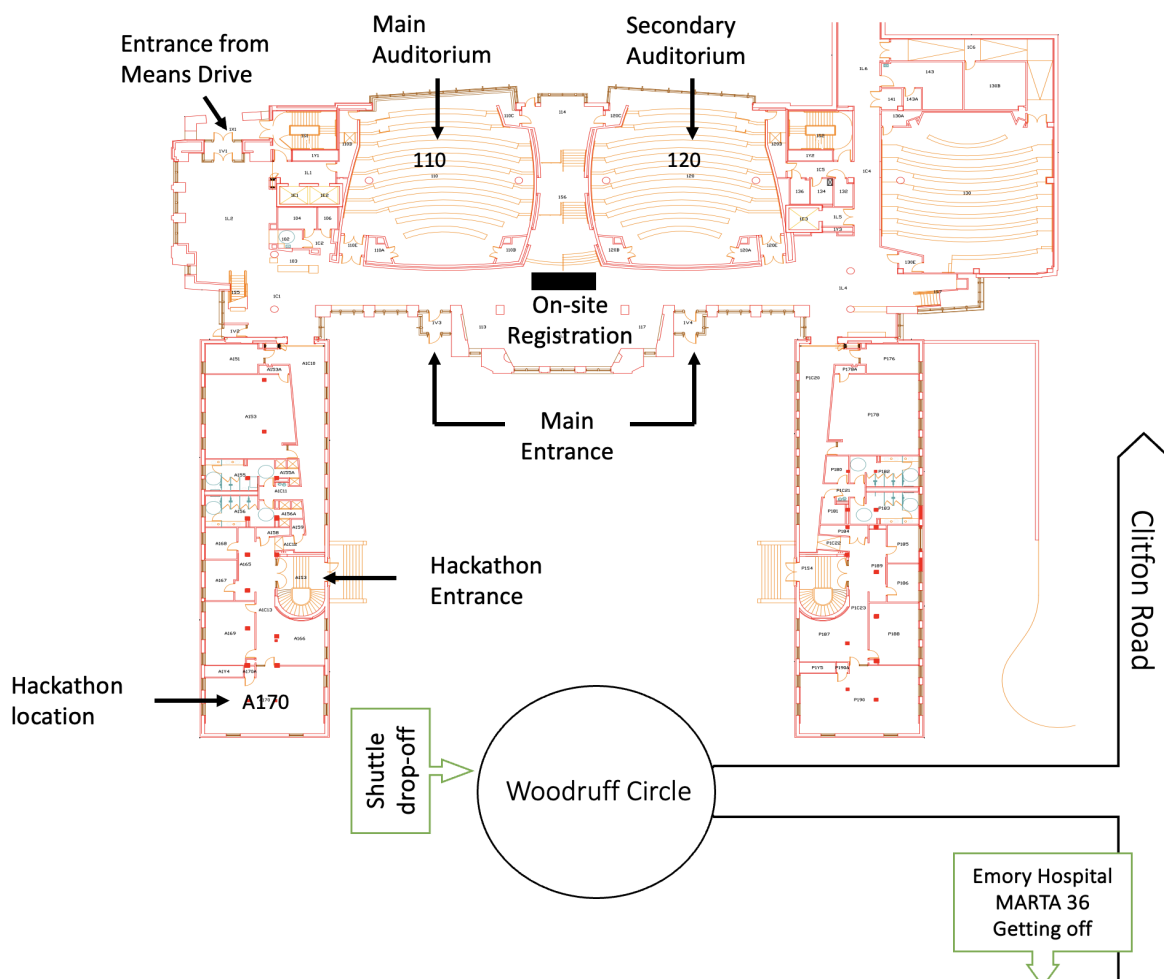
### Emory SOM James B. Williams Medical Education Building (Sunday Symposium and Hackathon)

Address: [100 Woodruff Circle Atlanta, GA 30322](https://www.google.com/maps/place/100+Woodruff+Cir,+Atlanta,+GA+30322)

Map:



## School of Medicine Floor plan (Sunday Symposium and Hackathon)



## Michael C. Carlos Museum on Emory Campus (Sunday evening reception)

Address: [571 South Kilgo Circle Atlanta, GA 30322](https://www.emory.edu/museum/)

Map:

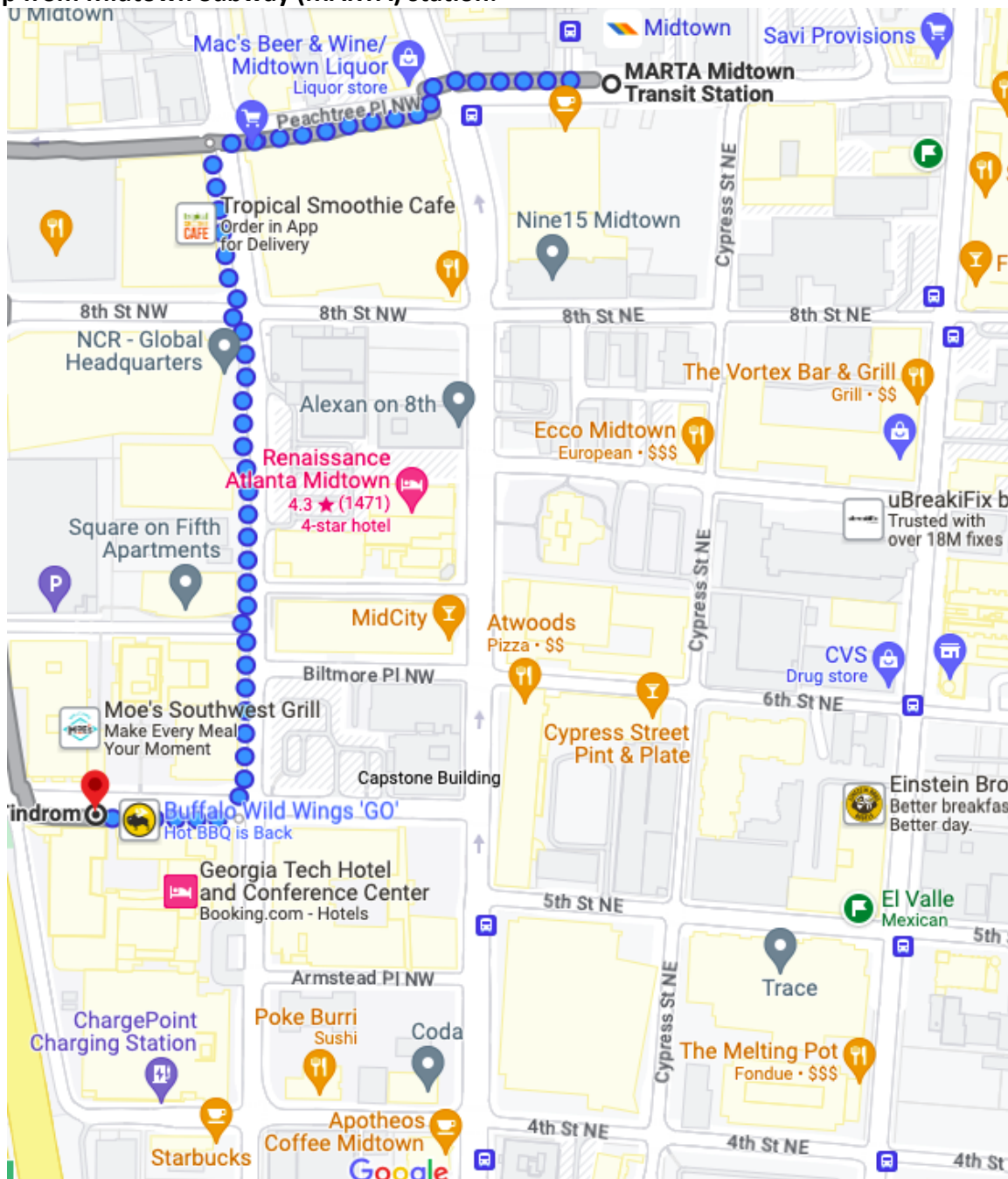




## Georgia Tech Global Learning Center (Conference venue)

Address: [84 5th St NW, Atlanta, GA 30308, USA](https://www.google.com/maps/place/84+5th+St+NW,+Atlanta,+GA+30308,+USA)

Map from Midtown Subway (MARTA) station:



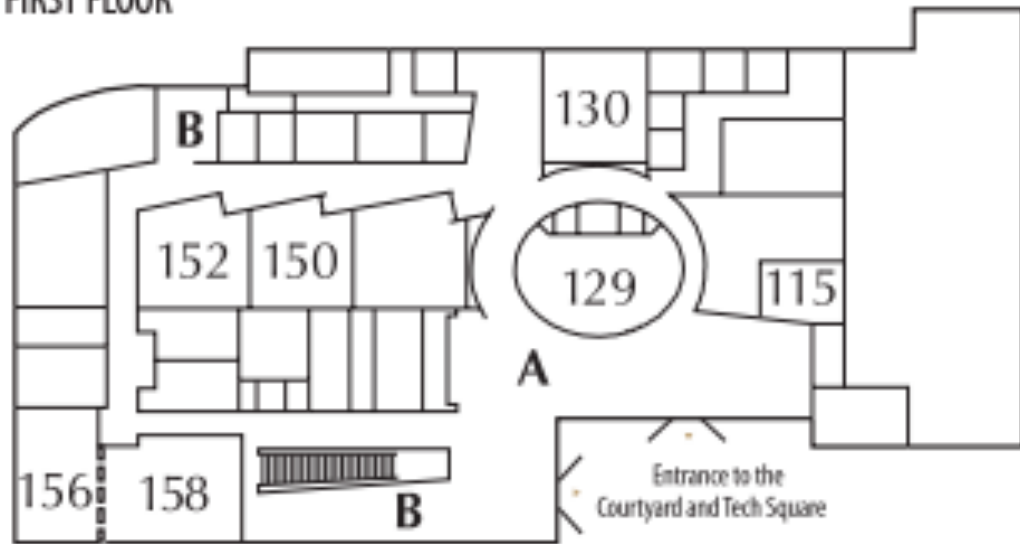
(Note: this is also connected by a covered bridge to the main conference hotel, The Georgia Tech Hotel and Conference Center, but is a separate building to the hotel.)



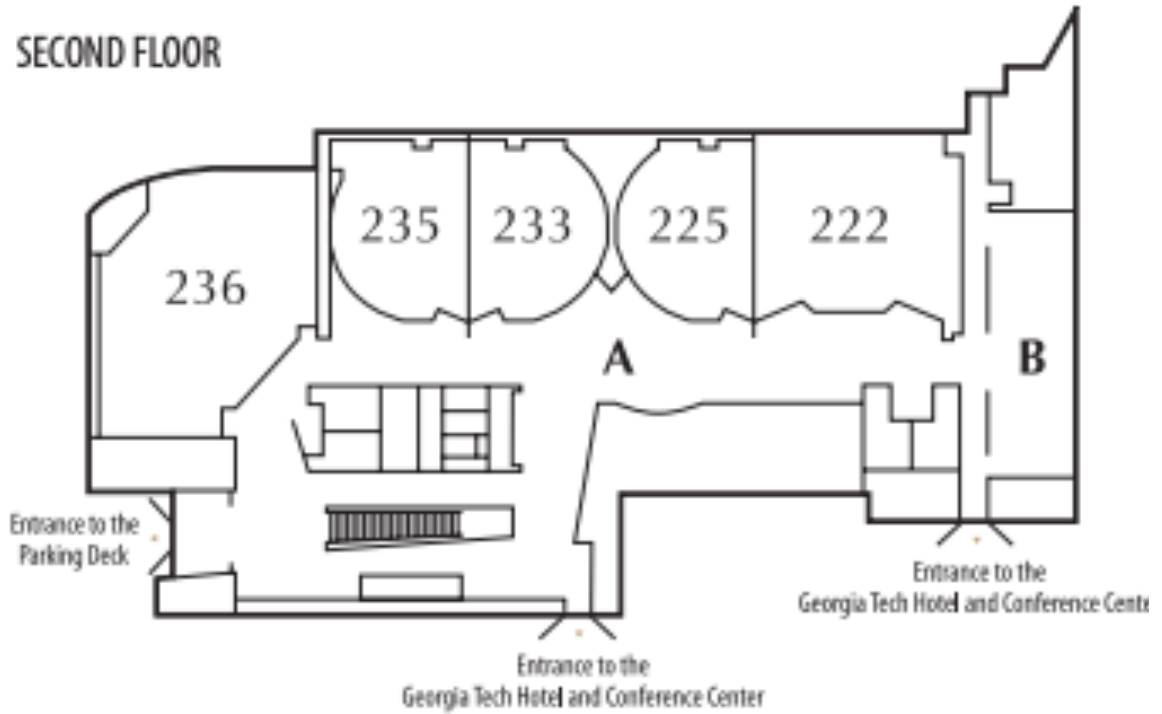
Floor plan

(Note: European ground floor = 1st floor in the USA)

FIRST FLOOR



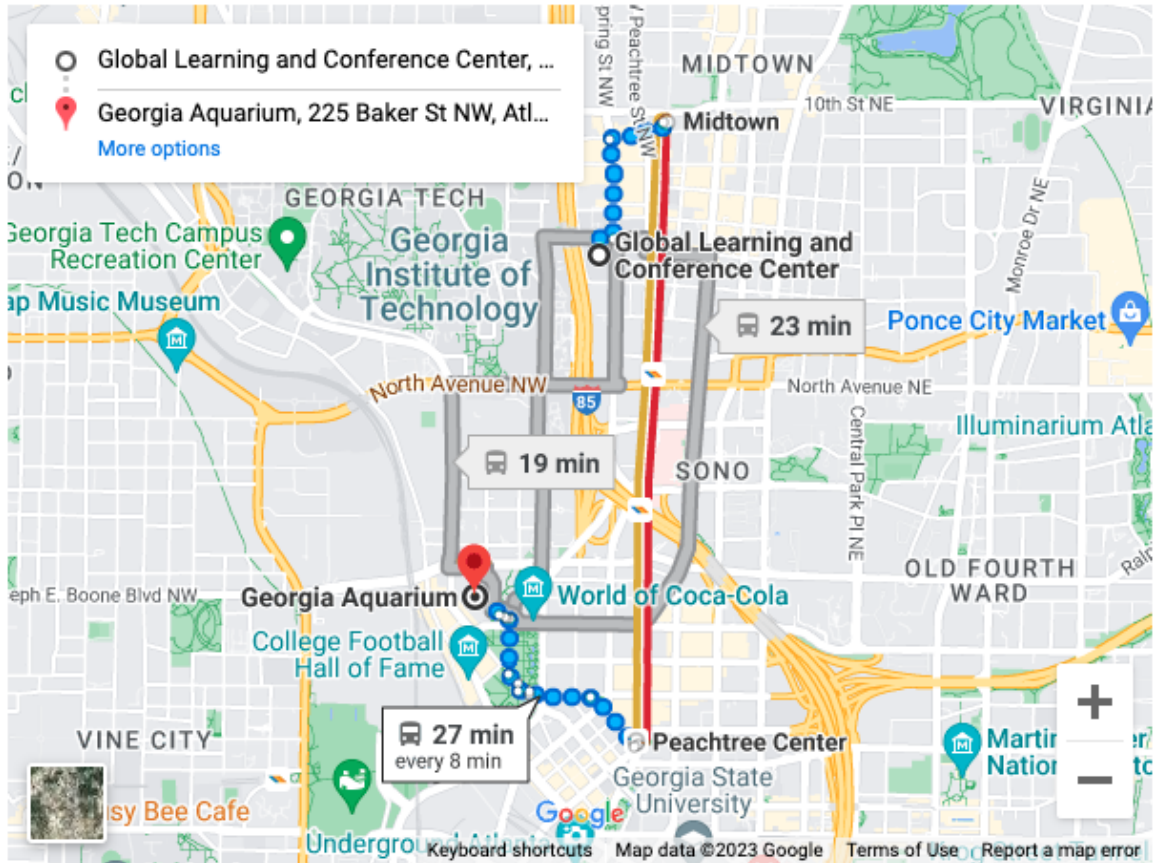
SECOND FLOOR



## Georgia Aquarium (Monday Gala Dinner)

Address: [225 Baker St NW, Atlanta, GA 30313](https://www.google.com/maps/place/225+Baker+St+NW,+Atlanta,+GA+30313)

Map:



## Practical Information

### Weather

Atlanta experiences mild and pleasant weather in October, making it an ideal time to visit. The average temperatures range from around 22-25°C (72-77°F) during the day to around 10-14°C (50-57°F) at night. Light layers are recommended for daytime, and having a light jacket or sweater on hand is wise for cooler evenings. October tends to be relatively dry, although occasional showers may occur. Carrying an umbrella or rain jacket is advisable, just in case.

### Time Zone

Atlanta operates in the Eastern Time Zone (ET) within the United States, UTC -4:00.

### Emergency phone number

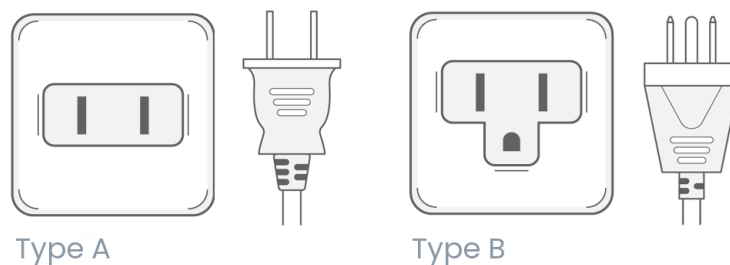
Police, fire, and medical assistance: 911

### Safety and Security

Atlanta, like any major city, has both safe and less safe areas. Downtown and Midtown Atlanta, where most of CinC 2023 conference activities are held, are generally safe, with visible police presence and well-maintained public spaces. As with any city, it is advisable to stay aware of your surroundings, especially in crowded places and during late hours. Atlanta's public transportation, MARTA, is generally safe. However, as with any public transportation, it is important to stay vigilant and be cautious of your belongings, particularly during busy times.

### Electric standards

The standard electric voltage in Atlanta is 120 volts at a frequency of 60 Hz. The plug type commonly used is the Type A and Type B plugs. Type A plugs have two flat parallel pins, while Type B plugs have two flat parallel pins and a grounding pin. You may need a plug adapter and potentially a voltage converter to ensure that your electronic devices work properly. (Phone, tablet, and laptop chargers generally do not need a voltage converter.)



# Transportation

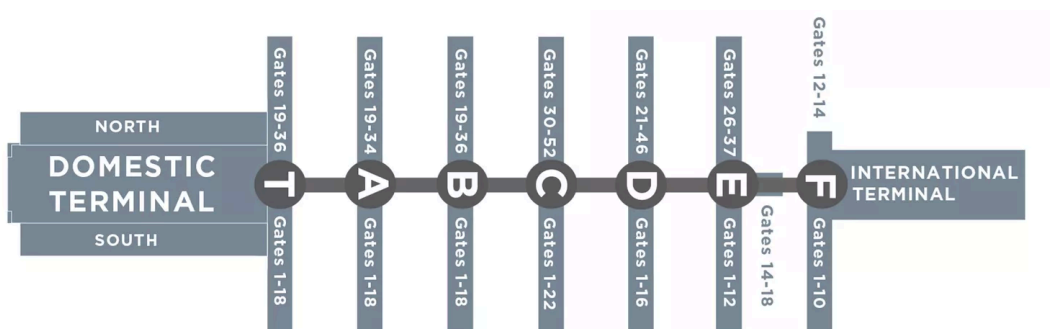
## By air

Hartsfield-Jackson Atlanta International Airport (ATL) is one of the busiest airports in the world and consists of multiple terminals and concourses. Here's an overview of the layout:

- **Terminals:** ATL has two terminals, **Terminal South** and **Terminal North**, connected by the **Plane Train**, an automated people mover.
- **Concourses:** Each terminal has several concourses, labeled with letters: Concourse T, A, B, C, D, E, and F. Concourse T is part of Terminal South, while Concourse A is in Terminal North.
- **International Terminal:** Terminal F is the International Terminal, handling most international flights.
- **Ground Transportation Mall:** This is located between the two terminals and houses the **MARTA station**.
- **WiFi:** **ATL Free** provides free WiFi.

To reach the MARTA station at the airport from the terminals:

1. Follow signs to "Transportation" or "Ground Transportation" within the terminals.
2. Take the Plane Train if needed to get to the Transportation Mall.
3. In the Transportation Mall, you'll find the MARTA station, which is part of the Metropolitan Atlanta Rapid Transit Authority (MARTA) system.
4. Purchase a Breeze Card or ticket at the station.
5. MARTA trains run to various destinations within Atlanta, making it an efficient way to access the city from the airport. If you are staying at the **Georgia Tech Hotel and Conference Center** or near the **Global Learning Center** (the conference venue), then you can take any train (i.e., either the **Red Line** or the **Gold Line**). Any train departing from the airport will go to Midtown Station, which is a 10-minute walk from the conference.



## Local transportation

MARTA (Metropolitan Atlanta Rapid Transit Authority) is the public transportation system serving Atlanta. With a focus on efficiency and convenience, MARTA offers a network of buses and trains that connect various parts of the city. You will be able to reach most of the conference activity locations through MARTA.

### MARTA Breeze Card

All MARTA fares must be purchased with a Breeze card or Breeze ticket. Breeze cards are \$2 and may be reloaded whereas Breeze tickets are \$1 for single-use only. MARTA fare is \$2.50 for a one-way trip.

### MARTA Passes

1 Day pass	2 Day pass	3 Day pass	4 Day pass	7 Day pass
\$9.00	\$14.00	\$16.00	\$19.00	\$23.75

### MARTA Breeze Mobile app

With [Breeze Mobile 2.0 app](#), you can conveniently purchase your MARTA fare directly on your phone, and the provided AR code serves as your ticket.

## Conference Information

### General Information

The conference registration and information desk is located at the main entrance of the James B. Williams Medical Education Building at the Sunday Symposium and on the second floor of the Georgia Tech Global Learning Center at the main conference. The registration desk is open during the following hours:

- Sun. October 1, 2023, 12:00 - 17:30
- Mon. October 2, 2023, 8:00 - 12:00
- Tue. October 3, 2023, 8:00 - 16:00
- Wed. October 4, 2023, 8:00 - 12:00

### Conference Venues

#### The Georgia Tech Global Learning Center

**Address:** [84 5th St NW, Atlanta, GA 30308, USA](#)

**How to get there:** The Georgia Tech Global Learning Center is located on the edge of Georgia Tech's campus in Midtown Atlanta. It is easily accessible from Hartsfield-Jackson Atlanta International Airport by rail public transit, MARTA. The MARTA Red and Gold train lines offer frequent travel between the Airport Station and Midtown Station throughout both the day and night. Each trip takes approximately 30 minutes and costs \$2.50. Attendees can also take Uber, Lyft, taxi, or other private services, which typically take 20-30 minutes.

#### Sunday Symposium Venue

##### Emory SOM James B. Williams Medical Education Building

**Address:** [100 Woodruff Circle Atlanta, GA 30322](#)

**How to get there:** James B. Williams Medical Education Building is situated on the Emory Campus, approximately 40-45 minutes away from Atlanta Midtown. We offer dedicated transportation service, and you also have the option to utilize public transportation as well.

**CinC 2023 Shuttle:** Transportation designated for the CinC 2023 Sunday Symposium will be provided to all conference attendees for the entire day.

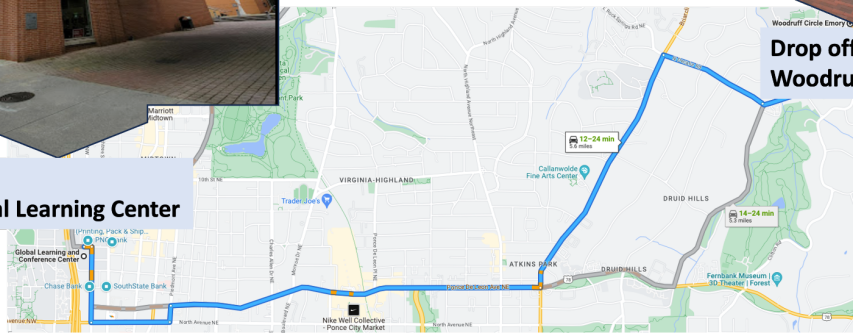
- **Pick-up:** [Georgia Tech Hotel \(800 Spring St NW, Atlanta, GA 30308\)](#)
- **Drop-off:** [Woodruff Circle, Emory University](#)
- **How to track the shuttle:** On the Emory [TransLoc.com](#) site or [TransLoc app](#), you will find a dedicated CinC 2023 vehicle to select. This feature offers real-time location tracking and a concise map of the route for transportation to the Sunday Symposium venue. You can download the TransLoc app from this link: "[TransLoc app](#)".

## Shuttle Map:



**Pick up:  
GT Global Learning Center**

**Drop off:  
Woodruff Circle**



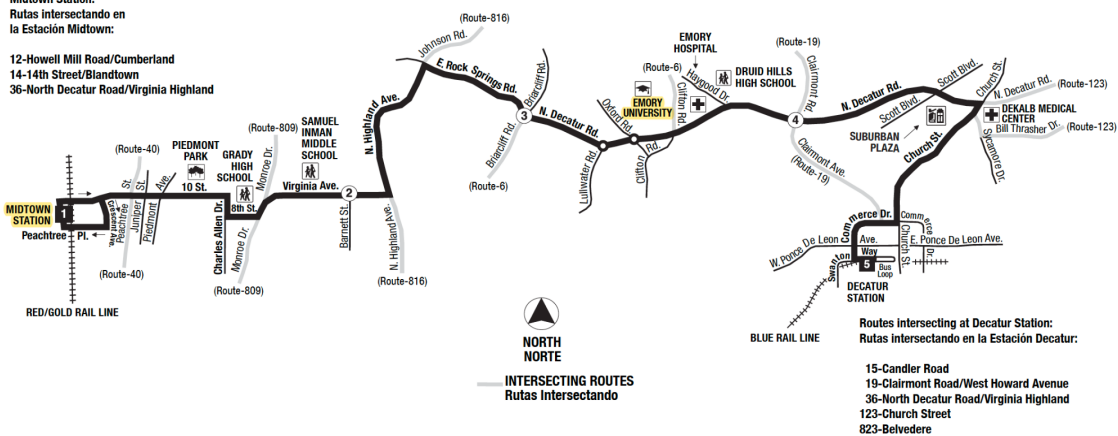
**Public Transportation:** MARTA bus #36 is a public transportation system that connects Atlanta Midtown and Emory University. The bus departs from **Midtown Station** every 40 minutes.

- Getting on MARTA 36: Midtown Station
- Getting off MARTA 36: N Decatur Rd NE & Clifton Rd

## MARTA 36 Route

Routes intersecting at Midtown Station:  
Rutas intersectando en la Estación Midtown:

12-Howell Mill Road/Cumberland  
14-14th Street/Blandtown  
36-North Decatur Road/Virginia Highland





## Sunday Schedule

Midtown Station	Virginia Ave & Barnett St	N Decatur Rd & Briarcliff Rd	N Decatur Rd & Clairmont Rd	Decatur Station
06:50 am	06:59 am	07:09 am	07:16 am	07:36 am
07:30 am	07:39 am	07:49 am	07:56 am	08:16 am
08:10 am	08:19 am	08:29 am	08:36 am	08:56 am
08:50 am	08:59 am	09:09 am	09:18 am	09:38 am
09:30 am	09:39 am	09:49 am	09:58 am	10:18 am
10:10 am	10:19 am	10:29 am	10:38 am	10:58 am
10:50 am	10:59 am	11:09 am	11:18 am	11:38 am
11:30 am	11:39 am	11:49 am	11:58 am	12:18 pm
12:10 pm	12:19 pm	12:29 pm	12:38 pm	12:58 pm
12:50 pm	12:59 pm	01:09 pm	01:18 pm	01:38 pm
01:30 pm	01:39 pm	01:49 pm	01:58 pm	02:18 pm
02:10 pm	02:19 pm	02:29 pm	02:38 pm	02:58 pm
02:50 pm	02:59 pm	03:09 pm	03:18 pm	03:38 pm
03:30 pm	03:39 pm	03:49 pm	03:58 pm	04:18 pm
04:10 pm	04:19 pm	04:29 pm	04:38 pm	04:58 pm
04:50 pm	04:59 pm	05:09 pm	05:18 pm	05:38 pm
05:30 pm	05:39 pm	05:49 pm	05:58 pm	06:18 pm
06:10 pm	06:19 pm	06:29 pm	06:38 pm	06:58 pm
06:50 pm	06:59 pm	07:08 pm	07:16 pm	07:36 pm
07:30 pm	07:39 pm	07:48 pm	07:56 pm	08:16 pm
08:10 pm	08:19 pm	08:28 pm	08:36 pm	08:56 pm
08:50 pm	08:59 pm	09:08 pm	09:16 pm	09:36 pm

## Meals

The Sunday Symposium will include an evening reception at the Carlos Museum [on Emory's Campus](#). Boxed lunch and dinner on Monday will be provided as part of a social program. Boxed lunches on Tuesday and Wednesday will be provided during the conference, along with an all day long continental breakfast, refreshments, and drinks.

## WiFi

Wi-Fi is available at the conference sites.

### Emory University Campus - Sunday Symposium

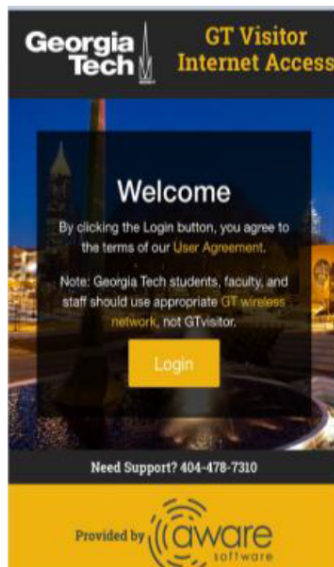
For Wi-Fi connectivity on the Emory campus, locate the available wireless networks and choose “**eduroam**” (if you have access to it) or “**EmoryGuest**”. Access to the EmoryGuest network entails confirming your identity before network usage. This involves creating a surname and password for each guest using a self-registration system. However, the account password will only be shared with the user via the email address or phone number submitted during registration. Once

you receive the password, you can log in to the Guest network using your username (email address) and the provided password.

Detailed instructions on how to connect to the EmoryGuest network are available at [Emory Guest Wireless Users Instructions](#).

### **Georgia Tech Global Learning Center - CinC 2023 conference**

For Wi-Fi connectivity in the Global Learning Center building, locate and connect to the SSID “GTVisitor”. You should get a prompt to login. If you are using a laptop, you may need to open a browser page first and attempt to navigate to a new website. Mobile devices should automatically bring up the login page or show a message stating you need to login. Once the page is loaded, you should see a page as below. For free access, select the login button. “eduroam” is also available.



## Sunday Symposium

**Date:** October 1st, 2023, Sunday, 12:00 - 17:30

**Location:** [James B. Williams Medical Education Building](#), School of Medicine, Emory University  
([100 Woodruff Circle Atlanta, GA 30322 USA](#))

**Room:** 110 and 120 (overflow room)

### Health Equity and Cardiovascular Disease

12:00-12:45      **Registration**

12:45-13:00      **Opening Remarks**

**Gari Clifford**, DPhil, Emory & Georgia Institute of Technology  
**Rob MacLeod**, PhD, SCI Institute, University of Utah

13:00-13:40      **Framing the African American experience of inequity in health through the lens of the Jackson Heart Study**

**Herman Taylor, Jr.**, MD, MPH, FACC, FAHA, Morehouse School of Medicine

13:40-14:20      **Racial Discrimination and accelerated aging**

**Sierra Carter**, PhD, MS, Georgia State University

14:20-15:00      **Post-traumatic stress disorder and cardiovascular disease**

**Amit Shah**, MD, MSCR, Emory University

15:00-15:30      **Coffee Break**

15:30-16:10      **Assets, credit and ambulatory blood pressure in African-American women**

**Tené Lewis**, PhD, MS, Emory University

16:10-16:50      **Sleep health disparities and their impact on cardiovascular disease**

**Dayna A. Johnson**, PhD, MPH, MSW, MS, Emory University

16:50-17:30      **Enhancing cardiovascular health equity in pregnant and postpartum persons**

**Natalie Hernandez**, PhD, MPH, Morehouse School of Medicine

18:30-20:30      **Sunday evening reception at [Michael C. Carlos Museum](#), Emory University**

[571 South Kilgo Circle Atlanta, GA 30322](#)

## Monday Social Program

Each year at CinC, Monday afternoon is set aside for a social event. This is an important part of the conference program as it allows attendees to meet each other in a more informal setting away from the scientific sessions. The social program is planned so that all of you have a chance to see some parts of Atlanta! As the social program starts immediately after the Monday morning sessions, boxed lunch is provided.

Participants can choose between activist or pacifist activities during registration. All social program participants are required to wear their CinC name tags and T-shirts.

### For Activists

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#### **Bike Tours of Atlanta - Experience Atlanta's Unique Civil Rights Legacy!**

As Atlanta is often called the cradle of the modern Civil Rights Movement, you will be able to join on a revealing journey to learn stories about the 1960's Civil Rights Movement. Pedal through history as passionate guides illuminate the significant landmarks where courageous activists fought for justice and equality.

Recommendations: comfortable athletic attire, proper footwear, sun protection, a backpack or bike bags to store essentials like water, snacks, a small first aid kit, and a mobile phone. The Bike Tours of Atlanta will provide a bottle of water and a helmet to each participant.

### For In-between-ists

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#### **Piedmont Park Historic Tour - Unveiling Piedmont Park's Untold Stories!**

The Piedmont Park History Walking Tour introduces the Park's vibrant past and present to visitors and natives alike. Join us and discover how Piedmont Park's rich history is undeniably intertwined with the development of Atlanta. On the tour, you will explore the fascinating historical and physical evolution of iconic Piedmont Park and how it went from forest to farmland to now being a premier urban green space. The tour will take 60-90 minutes, and be prepared to walk about a mile during that time.

Recommendations: comfortable athletic attire, proper footwear, sun protection, water bottle.

### For Passivists

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#### **Georgia Aquarium - Experience marine wonders at the Georgia Aquarium!**

Dive into an aquatic wonderland and embark on an unforgettable adventure at the Georgia Aquarium. Immerse yourself in a world teeming with awe-inspiring marine life, where majestic whales glide through vast exhibits, playful dolphins captivate your heart, and vibrant tropical fish create a mesmerizing kaleidoscope of colors.

### **Special Activity: Dive With Gentle Giants**

If you have passion for diving, we have an exciting opportunity for you. Only 7 dive spots are reserved at 3PM on October 2, 2023, under CinC 2023. If you are interested in diving with marine animals at the Georgia Aquarium, please visit <https://cinc2023.org> for more information.

Requirement: You will need to provide a proof of autonomous **“Open Water SCUBA certification”** from a recognized organization.

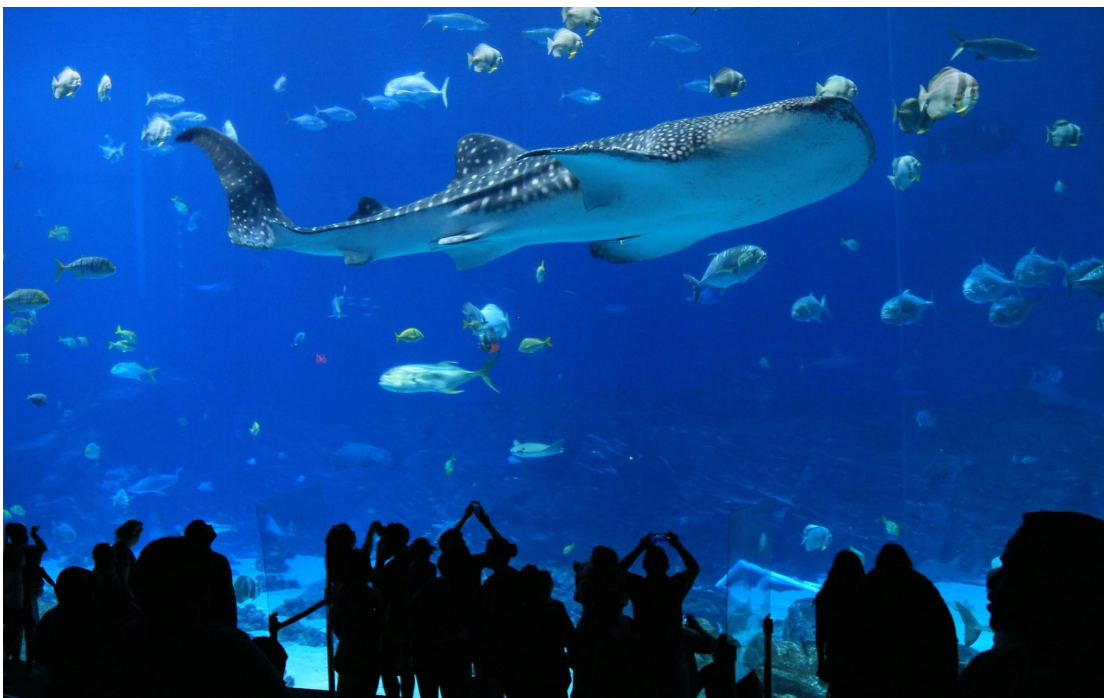
### **Atlanta Civil Rights Movement Bus Tour - Journey through history, reliving the struggle and celebrating the heroes!**

Step back in time and relive the pivotal moments of the Atlanta Civil Rights Movement on our captivating bus tour. Journey through the historic streets where heroes walked, as passionate guides share powerful stories of courage, resilience, and social change.

### **Monday Evening Gala at the Georgia Aquarium**

**Address:** [225 Baker St NW, Atlanta, GA 30313](#)

We welcome you to join us for an extraordinary evening as we host the Gala dinner in the renowned Oceans Ballroom, located within the Georgia Aquarium. The Ocean Ballroom stands as Atlanta’s most distinctive event space, boasting two expansive aquatic observation windows. Here, attendees will find themselves in close proximity to exotic fish and animals from every corner of the globe. Delight in this exceptional setting, where the allure of underwater life enhances the Gala dinner experience.



## For Authors and Speakers

While CinC is adopting a hybrid format once again this year, oral presentations are required to be delivered onsite and will be streamed through Whova. In contrast, poster presentations can either be onsite or remote. The online platform is accessible to all registrants whether onsite or remote.

### Oral Presentations

- The time allocated for each oral presentation is 10 minutes, followed by 5 minutes for Q&A. The only exception to the 10-minute limit for oral presentations is for the four finalists in the Rosanna Degani Young Investigator Award competition, who are each allotted 15 minutes for their talks, followed by 5 minutes for discussion.
- You will be introduced by the session's Chairperson, who will also open the Q&A session after your presentation.
- Questions will be exclusively asked at the end of each speech, aiming to minimize interruptions and ensure a seamless online experience for attendees. Please be aware that during the Q&A session, your slide will not be displayed on the screen to allow a smoother transition to the next presentation.
- Speakers are expected to adhere strictly to the event schedule, which will be enforced to finish sessions on time and to permit participants to move successfully from one parallel session to another.
- Prepare your presentation before coming to the conference using suitable software, e.g, Microsoft PowerPoint, Apple Keynote, or PDF. If your presentation includes video content, make sure it plays properly on the system available at the conference venue by testing it beforehand.
- Speakers may bring your presentation to CinC on a USB memory stick and use a Windows computer available at each podium to display your slides. You may also bring your own laptop but be sure to also bring necessary adapters for both HDMI and VGA projector inputs.

### Oral Presentation Check-In

- All speakers must come to the room where you will present at least 15 minutes prior to your session, find and check in with one of the session chairs.
- Please load and/or check your presentation on the local projection system.
- The session chairpersons need to know who will present each scheduled paper. Help them by introducing yourself, and letting them know which paper you will present.
- There will also be a local person available to provide technical assistance.

### Poster Presentation

- All presenters (remote and onsite) will upload their poster as a pdf file (max size of 10MB) to the conference hosting site, Whova and have the option of also uploading a 3-minute video presenting the poster.
- Each poster will have a chat/mailbox for communicating with the author throughout the conference.

- In-person presenters will come to their poster session and present and discuss their study with conference attendees.
- Remote participants will be able to communicate with conference attendees (remote and in-person) via the chat/mailbox throughout the conference.
- Onsite posters must be in portrait (i.e., vertical) orientation and be no larger than A0 size. A0 is equivalent to 841 (width) X 1189 (height) mm or 33.1 X 46.8 inches.

**Onsite Poster Presentation Check-in**

- Authors presenting posters must check in with the session chair in the exhibition center during the 30 minutes prior to the poster sessions in which their presentations are scheduled.
- Poster stands and mounting materials will be provided.
- Posters are grouped by subject area, and each poster should be hung on the stand assigned to it.



## Program Overview

### Monday, October 2, 2023

8:30	Welcome to CinC 2023	Room 236
8:45	Session RDYIA - Rosanna Degani Young Investigator Finals	Room 236
10:15	Coffee break	
10:45	Session S21 - Cardiac Imaging and Applications	Room 225
	Session S22 - Heart Rate Variability: Applications	Room 235
	Session S23 - Modeling Cardiac Cells and Drug Effects	Room 233
	Session S24 - Special Session. Wearable photoplethysmography: the road ahead	Room 236
12:15	Social Activities	

### Tuesday, October 3, 2023

8:30	Session S31 - ECGs in Heart Diseases	Room 235
	Session S32 - Heart Rate Variability: Methods	Room 225
	Session S33 - Modeling Cardiac Tissue and Spread of Depolarization	Room 233
	Session S34 - Special Session. Inside the Beating Heart: Image-guided Cardiac Interventions	Room 236
10:00	Coffee break	
10:15	Session S41 - ECG Technology	Room 235
	Session S42 - Heart Rate Variability	Room 225
	Session S43 - Modeling AV Node and Atrial Arrhythmias	Room 233
	Session S44 - Special Session. At the Intersection of Cardiovascular Imaging, Mechanics and Modeling for Patient-customized Simulations	Room 236
11:45	Lunch	
12:30	Session S51 - ECG wearables	Room 235
12:30	Session S52 - The George B. Moody PhysioNet Challenge I	Room 236
	Session S53 - Modeling Ventricular Arrhythmias and Personalization	Room 233
	Session S54 - Photoplethysmography	Room 225
14:00	Coffee break	
14:15	Session S61 - ECG in Myocardial Ischemia and Infarction	Room 235
	Session S62 - The George B. Moody PhysioNet Challenge II	Room 236
	Session S63 - Whole Heart Modeling	Room 233
	Session S64 - Seismocardiography	Room 225
15:45	Poster Session with coffee	Atrium

### Wednesday, October 4, 2023

8:30	Session S81 - ECG in Arrhythmias	Room 236
	Session S82 - Atrial Arrhythmias I	Room 225
	Session S83 - Cardiovascular Mechanics	Room 233
	Session S84 - Medical Informatics I	Room 235

10:00	Coffee break	
10:30	Session S91 - Ventricular arrhythmias: from mechanisms to prediction	Room 235
	Session S92 - Atrial Arrhythmias II	Room 225
	Session S93 - ECGI formulation and applications	Room 236
	Session S94 - Cardiac Mechanograms	Room 233
12:00	Lunch and poster session	
14:00	Session SB1 - Ventricular arrhythmias - dealing with EGMs	Room 235
	Session SB2 - YIA Semifinalists	Room 236
	Session SB3 - Methods for ECGI	Room 233
	Session SB4 - Medical Informatics II	Room 225
15:00	Session CP - Closing Plenary	Room 236
16:00	Awards and closing remarks	Room 236