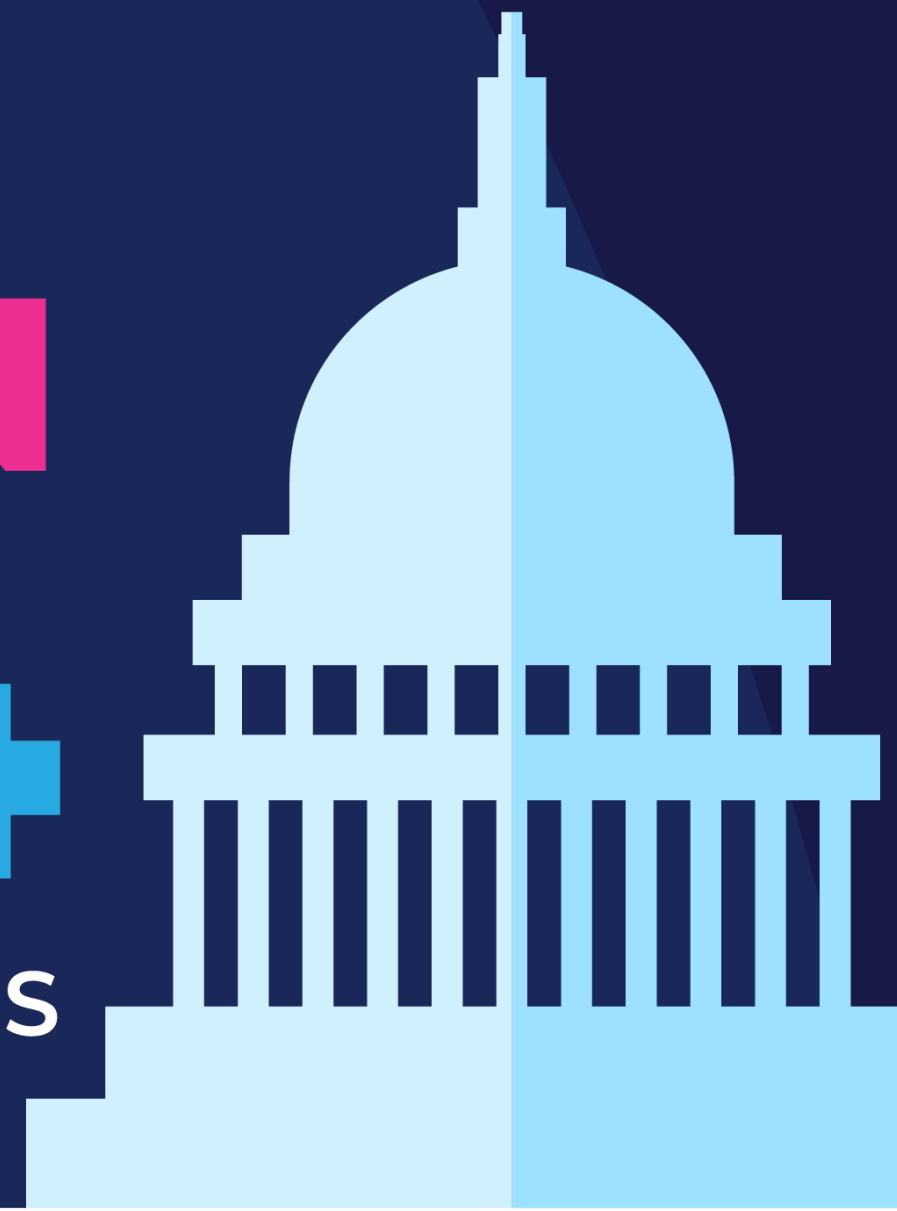


# SUGAR MADISON 2024

SEARCHING FOR THE SOURCES OF GALACTIC COSMIC RAYS



OCTOBER 14-17



# Speakers

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**Z. Cao** (*IHEP, China*)

**D. Caprioli** (*University of Chicago, USA*)

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### Current State of Multimessenger Astrophysics

**P. Huentemeyer** (*Michigan Technological University, USA*)  
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**J. Vandenbroucke** (*UW–Madison, USA*)

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| <b>J. Goodman</b> (University of Maryland, USA)     | <b>N. Park</b> (Queen's University, Canada)                          |
| <b>S. Gossan</b> (Hofstra University, USA)          | <b>S. Toscano</b> (ULB, Brussels, Belgium)                           |
| <b>F. Halzen</b> (UW-Madison, USA)                  | <b>P. Zuccon</b> (University of Trento, Italy)                       |
| <b>D. Hooper</b> (UW-Madison, Chicago, USA)         | <b>E. Zweibel</b> (UW-Madison, USA)                                  |
| <b>K. Kawata</b> (University of Tokyo, Japan)       |  |
| <b>J. F. Krizmanic</b> (NASA, USA)                  |  |

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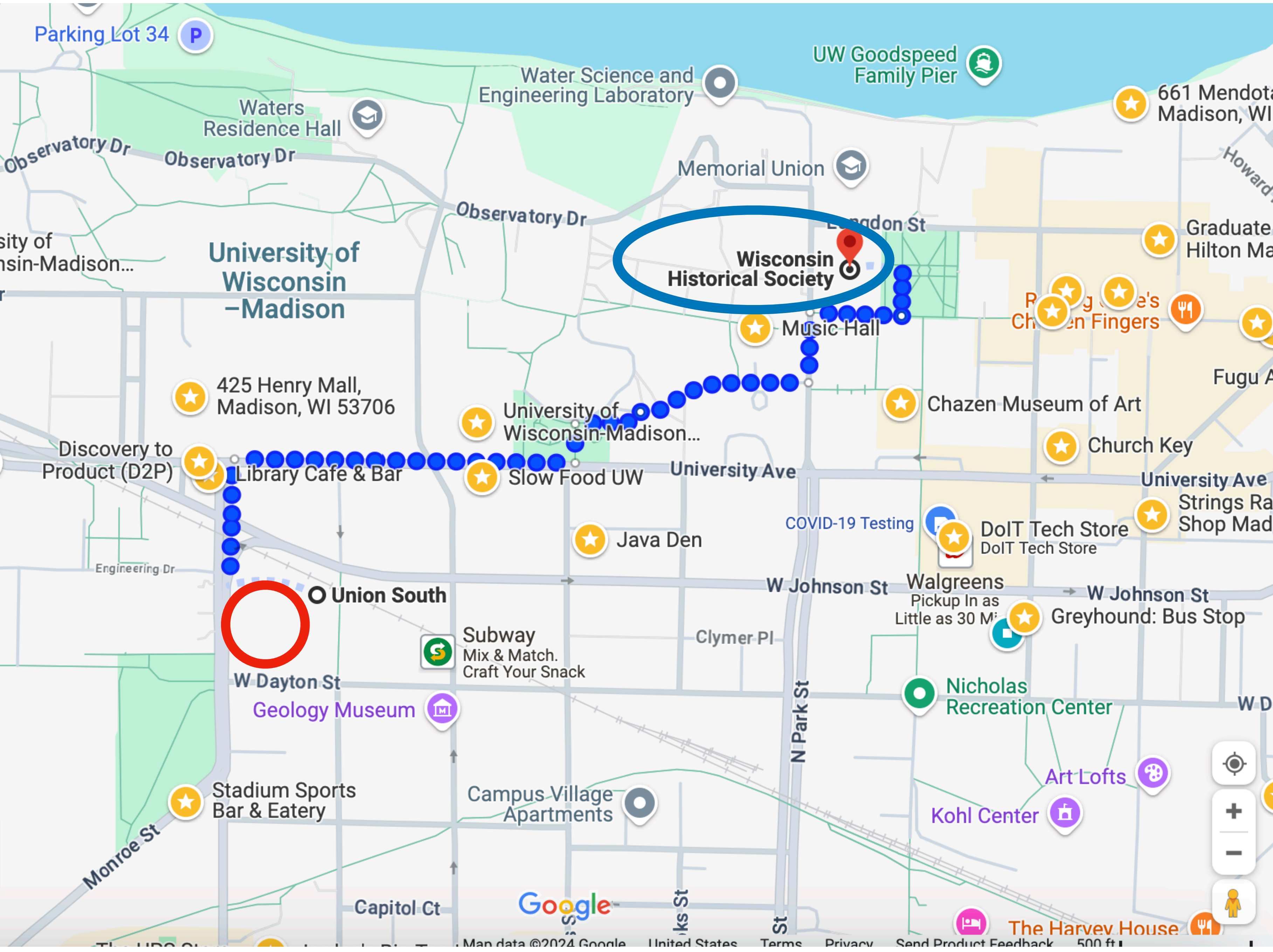
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Mon 14/10

08:00	<b>Introduction</b> Northwoods Room, Union South, University of Wisconsin-Madison	Paolo Desiati 08:45 - 09:00
09:00	<b>Galactic Cosmic Rays: loose ends or shaking pillars? (remote)</b> Northwoods Room, Union South, University of Wisconsin-Madison	Pasquale Blasi 09:00 - 09:45
10:00	<b>AMS-02 results and perspectives for future measurements with a magnetic spectrometer</b> Northwoods Room, Union South, University of Wisconsin-Madison	Paolo Zuccon 09:45 - 10:30
	<b>Coffee Break</b> Northwoods Room, Union South, University of Wisconsin-Madison	10:30 - 11:00
11:00	<b>Science Results of 9 Years of Measurements from CALET Operation on the International Space Station</b> Northwoods Room, Union South, University of Wisconsin-Madison	John Krizmanic 11:00 - 11:45
12:00	<b>Lunch (On Your Own)</b>	
13:00	<b>Results from the DAMPE space mission (remote)</b> Northwoods Room, Union South, University of Wisconsin-Madison	Ivan De Mitri 13:15 - 14:00
14:00	<b>Spectral Signatures of Local Cosmic Ray Sources</b> Northwoods Room, Union South, University of Wisconsin-Madison	Igor Moskalenko 14:00 - 14:45
	<b>Coffee Break</b> Northwoods Room, Union South, University of Wisconsin-Madison	14:45 - 15:15
15:00	<b>Investigating the CREDIT history of supernova remnants as cosmic-ray sources</b> Northwoods Room, Union South, University of Wisconsin-Madison	Philipp Mertsch 15:15 - 16:00
16:00	<b>Multi-messenger modeling of Galactic cosmic-ray acceleration and transport</b> Northwoods Room, Union South, University of Wisconsin-Madison	Lukas Merten 16:00 - 16:45
18:00	<b>Special Events: Welcome Reception</b>	
19:00		
20:00	<b>Library Reading Room, Wisconsin Historical Society</b>	18:00 - 20:00





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Tue 15/10

09:00	<b>Recent Results on Cosmic Ray Spectrum and Anisotropy from the GRAPES-3 Experiment (remote)</b> <i>Pravata Kumar Mohanty</i>	
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	09:00 - 09:45
	<b>In-person presentation</b>	<i>Zhen Cao</i>
10:00		
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	09:45 - 10:30
	<b>Coffee Break</b>	
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	10:30 - 11:00
11:00	<b>The Fermi view of the Galactic diffuse gamma-ray emission</b> <i>Michela Negro</i>	
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	11:00 - 11:45
	<b>Lunch (On Your Own)</b>	
12:00		
13:00		11:45 - 13:15
	<b>HAWC Observations of the Spectrum, Composition and Anisotropy of Cosmic Rays Below the Knee</b> <i>Juan Carlos Díaz Vélez</i>	
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	13:15 - 14:00
14:00	<b>Galactic Gamma Ray Sources as seen by HAWC</b> <i>Jordan Goodman</i>	
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	14:00 - 14:45
	<b>Coffee Break</b>	
15:00	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	14:45 - 15:15
	<b>Young stellar cluster as cosmic ray sources</b> <i>Giovanni Morlino</i>	
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	15:15 - 16:00
16:00	<b>In-person presentation</b> <i>Nahee Park</i>	
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	16:00 - 16:45
	<b>Panel: Current State of Multimessenger Astrophysics</b> <i>Andrii Neronov, Prof. Justin Vandenbroucke, Petra Huentemeyer</i>	
17:00		16:45 - 17:45
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	
18:00		
19:00	<b>Special Events: Ghost Tour (Advance Registration and Payment Required)</b>	
20:00	<i>Outside the Wisconsin Historical Society</i>	19:00 - 20:30



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Wed 16/10

09:00	<b>Galactic gamma-ray PeVatron observations and non-thermal processes in galactic sources (remote)</b> <i>Rubén López-Coto</i>
	Northwoods Room, Union South, University of Wisconsin-Madison 09:00 - 09:45
10:00	<b>IceCube: Status of the Search for Cosmic Ray Sources</b> <i>Mr Francis Halzen</i>
	Northwoods Room, Union South, University of Wisconsin-Madison 09:45 - 10:30
	<b>Coffee Break</b>
	Northwoods Room, Union South, University of Wisconsin-Madison 10:30 - 11:00
11:00	<b>Panels: Future of Multimessenger Astrophysics</b> <i>Eli Waxman, Kohta Murase, Szabolcs Marka</i>
	Northwoods Room, Union South, University of Wisconsin-Madison 11:00 - 12:00
12:00	<b>Lunch (On Your Own)</b>
13:00	12:00 - 13:15
	<b>In-person presentation</b> <i>Sarah Gossan</i>
	Northwoods Room, Union South, University of Wisconsin-Madison 13:15 - 14:00
14:00	<b>The Unexpected TeV Emitters in the Galactic Plane</b> <i>Ke Fang</i>
	Northwoods Room, Union South, University of Wisconsin-Madison 14:00 - 14:45
	<b>Coffee Break</b>
15:00	14:45 - 15:15
	<b>Interaction of Cosmic Rays at Mesoscopic Scales</b> <i>ELLEN GOULD ZWEIBEL</i>
	Northwoods Room, Union South, University of Wisconsin-Madison 15:15 - 16:00
16:00	<b>Are Supernova Remnants as Cosmic Ray Factories? Yes, but...</b> <i>Damiano Caprioli</i>
	Northwoods Room, Union South, University of Wisconsin-Madison 16:00 - 16:45
	<b>Galactic CR sources: Insights from the diffuse emission, TeV halos, and the CR anisotropy</b> <i>Prof. Gwenael Giacinti</i>
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Thu 17/10

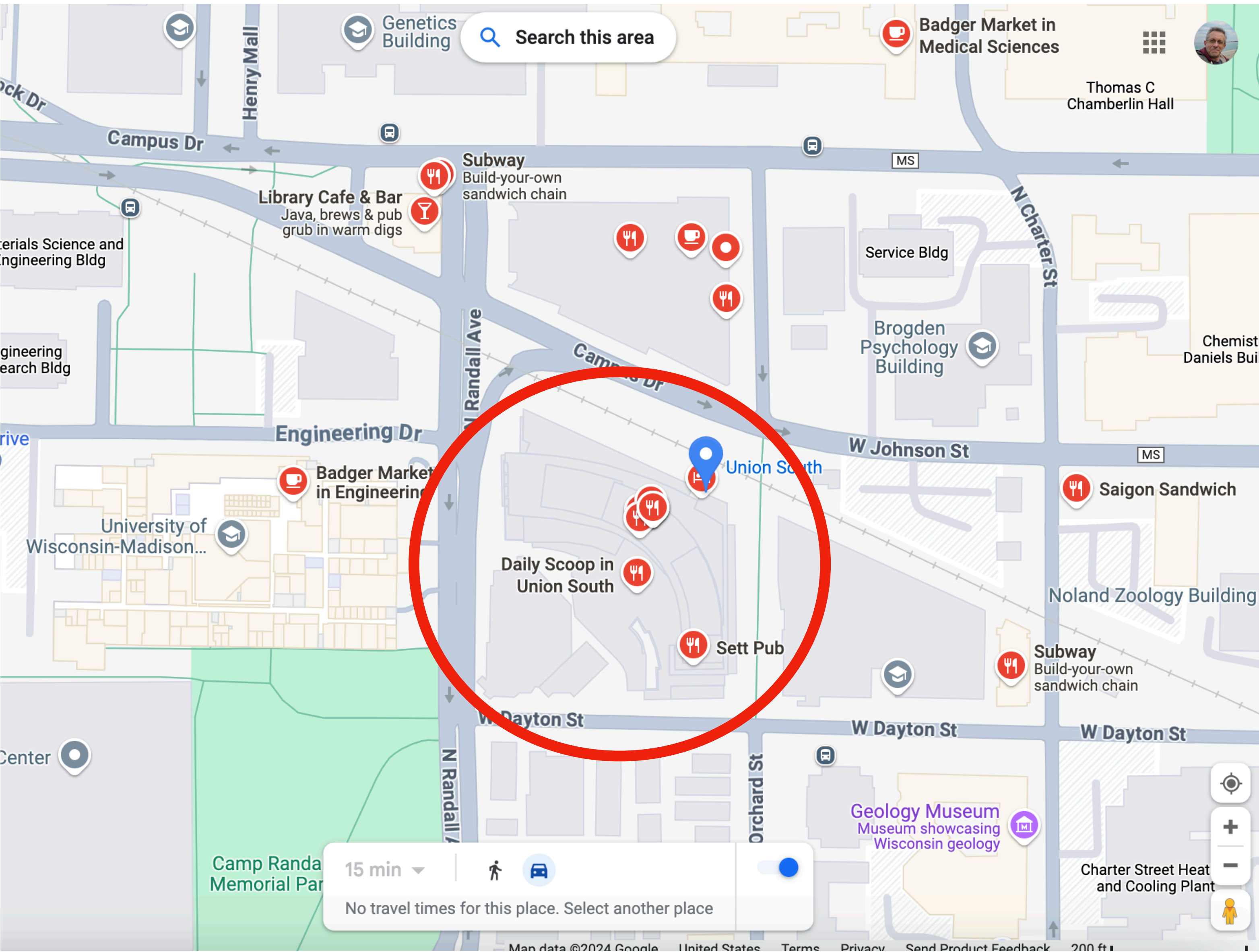
09:00	<b>A Multi-Messenger View of the Milky Way</b>	<i>Dan Hooper</i>
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	09:00 - 09:45
10:00	<b>IceCube's Galactic Neutrinos: Diffuse Emission or Hidden Sources?</b>	<i>Markus Ahlers</i>
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	09:45 - 10:30
	<b>Coffee Break</b>	
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	10:30 - 11:00
11:00	<b>Searching for Galactic PeVatrons with the Tibet ASgamma Experiment</b>	<i>Dr Kazumasa Kawata</i>
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	11:00 - 11:45
12:00	<b>Lunch (On Your Own)</b>	
13:00	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	11:45 - 13:15
	<b>In-person presentation</b>	<i>Tim Linden</i>
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	13:15 - 14:00
14:00	<b>Symposium's Summary</b>	<i>Simona Toscano</i>
	<i>Northwoods Room, Union South, University of Wisconsin-Madison</i>	14:00 - 14:30

We'll write up a summary of the topics discussed at the symposium, including the current status and future.



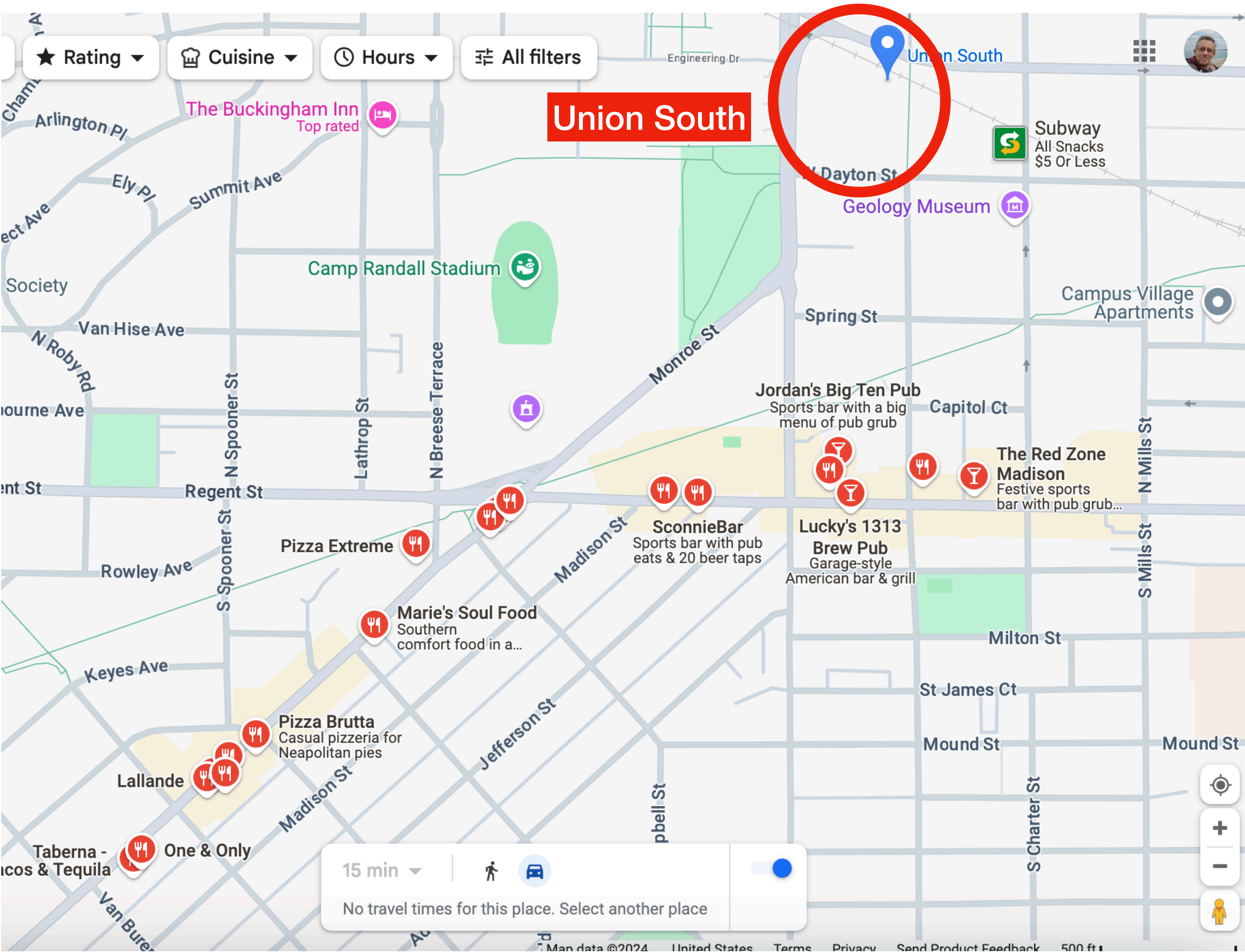


# Restaurants around Union South

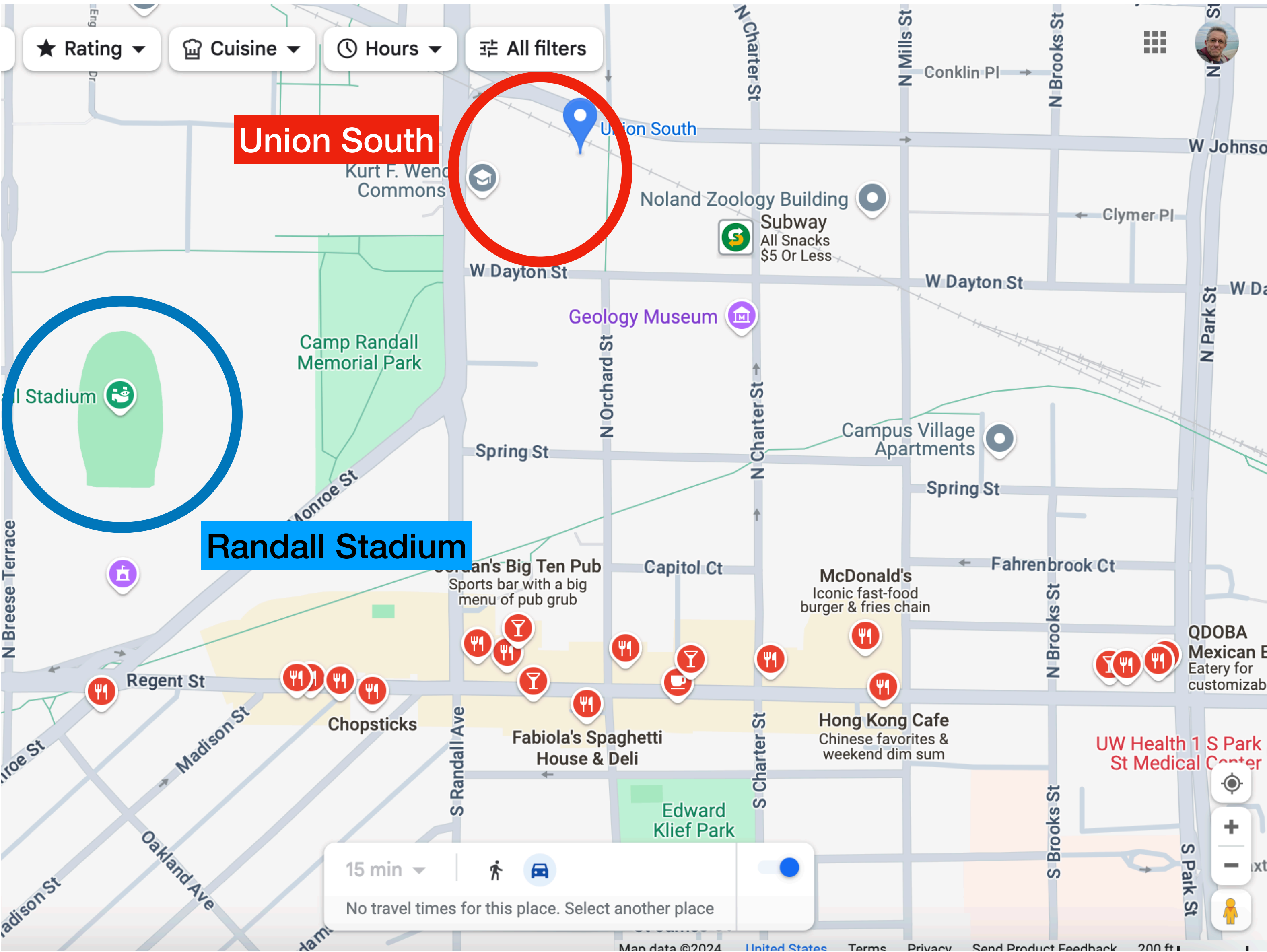


Union South

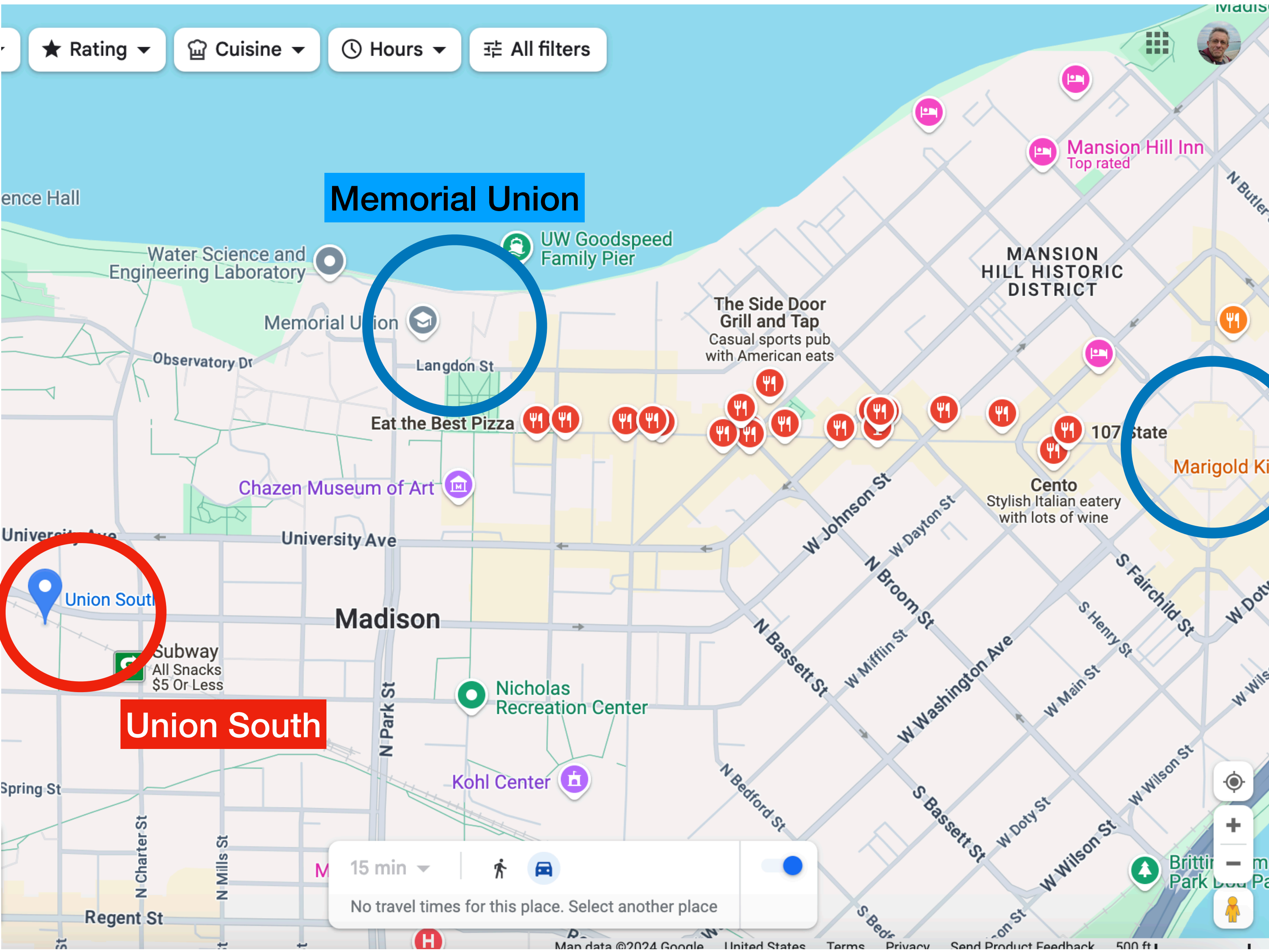
# Restaurants on Monroe St



# Restaurants on Regent St



# Restaurants on State St



Capitol Square



14-17 October 2024  
Union South, University of Wisconsin–Madison  
US/Central timezone

- Overview
- Speakers and Panelists
- Call for Abstracts
- Timetable
- Payment
- Contribution List
- Registration
- Participant List
- Hotels
- Visiting Madison**
- Special Events
- Previous Symposium Editions

Contact  
✉ [sugar2024@icecube.wis...](mailto:sugar2024@icecube.wis...)

## Visiting Madison



### General Tourism Information

Tourism information is available from the following sources:

- [Visit Downtown Madison](#)
- [Destination Madison](#)
- [Travel Wisconsin](#)

### Transportation to Madison

Madison is served by the [Dane County Regional Airport](#) (airport code MSN). It is also accessible via the [Van Galder Bus Company](#) from Chicago O'Hare International Airport (ORD) and [Badger Coaches](#) from Milwaukee Mitchell International Airport (MKE).

### Getting Around Madison

[Madison Metro Transit Bus System](#) offers local bus service around the city, particularly in the downtown and campus areas. Bus fare is \$2 per ride, except for routes 80, 81, 82, and 84, which are free. These routes serve the university and areas immediately around campus.

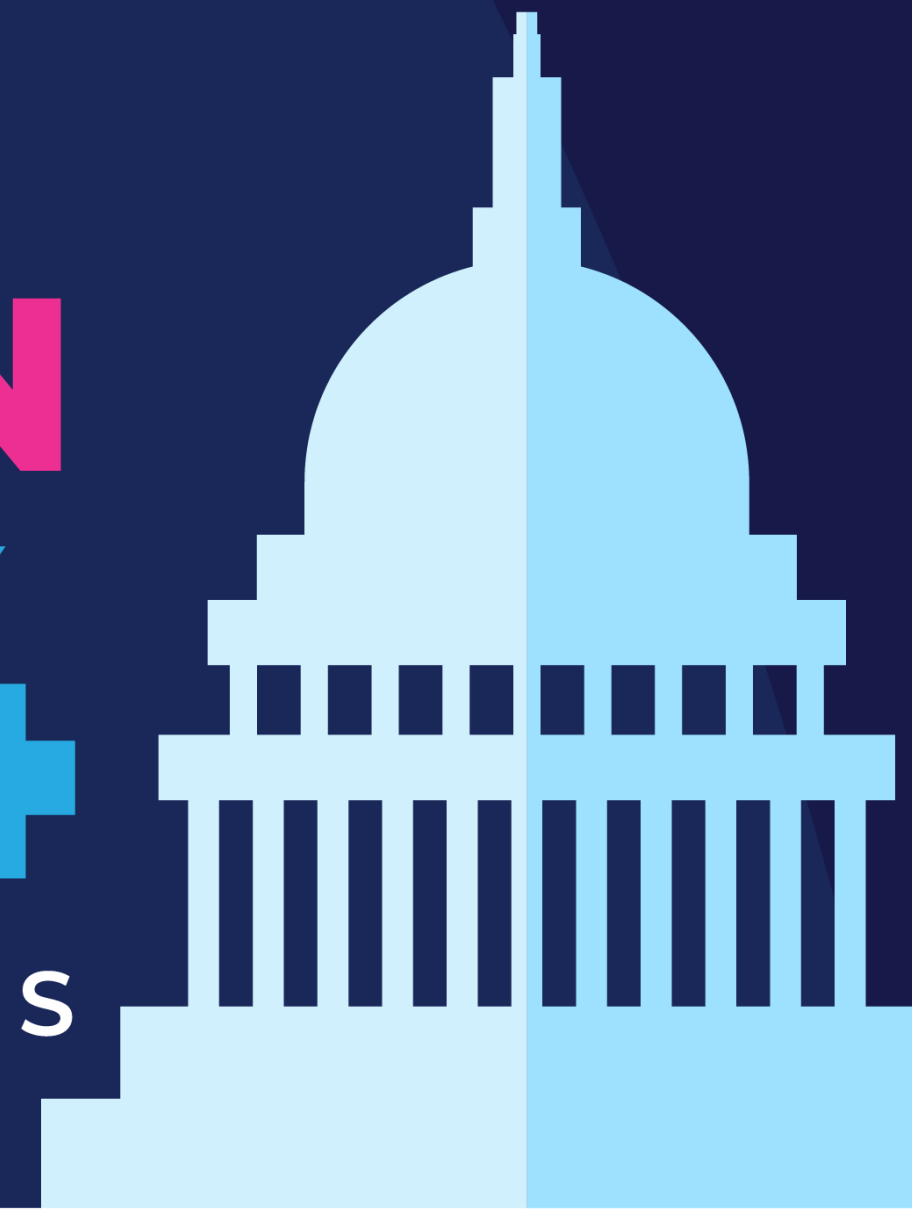
Bus timetables are available on the Metro Transit website, Google Maps, and the Transit app.

Madison is very bicycle-friendly and offers [B-Cycle bike rental stations](#) throughout the city.

Uber and Lyft are available in Madison. Taxi service is limited, but available from [Union Cab Cooperative](#) and [Madison Taxi](#). Taxis in Madison do not pick up street fares, and wait times can be long. Advance booking is encouraged.

# SUGAR MADISON 2024

SEARCHING FOR THE SOURCES OF GALACTIC COSMIC RAYS



OCTOBER 14-17



**welcome to SuGAR 2024**

**welcome to Madison**