

Imaging for Life Detection Workshop Logistics

When:

From Wednesday August 28 at 12 pm, to Friday August 30 at 1 pm.

Where:

Johnson Rooms, **Robert H. Lurie Engineering Center**, College of Engineering,
University of Michigan, Ann Arbor

Information for Participating Remotely.

The Dial-in Number will be: 1.888.240.2560

Meeting ID: 114 460 7833

or

Blue Jeans

Web address: <https://bluejeans.com/1144607833>

The dial in phone number and meeting ID are the same for all three days.

Getting to Ann Arbor (the closest airport is **Detroit Metro –DTW**):

<https://campusinfo.umich.edu/article/and-airport>

Places to stay and what to do in Ann Arbor:

<https://campusinfo.umich.edu/visiting-ann-arbor>

Most convenient hotels in downtown Ann Arbor:

<https://www.marriott.com/hotels/travel/arbdt-residence-inn-ann-arbor-downtown/>

and

<https://www.graduatehotels.com/ann-arbor/>

Closest hotels to the meeting venue:

<http://www.hiannarbor.com/>

and

https://hamptoninn3.hilton.com/en/hotels/michigan/hampton-inn-ann-arbor-north-ARBGRHX/index.html?SEO_id=GMB-HP-ARBGRHX

Map of Meeting Location:

Johnson Rooms, 3rd Floor, **Robert H. Lurie Engineering Center**

<https://campusinfo.umich.edu/building-search/building/90/robert-h-lurie-engineering-center>

Agenda

August 28

Introductions and the Search for Life

12:00 – 1:00 pm Lunch and Introductions

1:00 – 1:15 pm Welcome Remarks by Jay Nadeau and Nilton Renno

- 1:15 – 1:45 pm** Microbial Morphology and Motility as Biosignatures by Jay Nadeau
1:45 – 2:15 pm Imaging Technologies for Life Detection by Chris Lindensmith
2:15 – 3:00 pm Imaging in Planetary Exploration by Carolyn Porco
- 3:00 – 3:30 pm** **The Planetary Science Congressional Caucus** by Chris Matus,
Regional Director - Office of US Senator Gary Peters
- 3:00 – 3:30 pm** **Coffee Break**
- 3:30 – 4:30 pm** **Discussion:**
What instruments have been used to search for life in other planets?
What new instruments are being developed?
- 4:30 – 5:00 pm** **Summary and Recommendations** by Jay Nadeau

August 29

Technological Challenges for Life Detection

- 8:00 – 8:30 am** **Coffee and Snacks**
9:00 – 10:00 am Imaging and Molecular Analyses of Life Systems by Thai Truong
10:00 – 10:30 am Chip-Scale Spectrometer for Extreme Environments by P. Ku
- 10:30 – 10:45 pm** **Coffee Break**
- 10:45 – 11:30 am** Assessing Biogenicity in Images of Geofabrics by Heather Graham
11:30 – 12:00 pm Searching for Life in Subsurface Minerals by Michael Spilde
- 12:00 – 1:30 pm** **Lunch**
- 1:30 – 2:30 pm** Multi-Spatial Imaging for Life Detection by Penny Boston
2:30 – 3:00 pm The Dynamics of Ice by Jeremy Bassis
- 3:00 – 3:30 pm** **Coffee Break**
- 3:30 – 4:00 pm** Migration of Filaments in Modern Microbial Mats by Bopi Biddanda
4:00 – 4:30 pm Machine Learning to Detect Life Like Motility by Shawn Anderson
4:30 – 5:00 pm **Discussion:** How can we search for life with current technologies?
5:00 – 5:15 pm **Summary and Recommendations** by Nilton Renno

Workshop Recommendations

August 30

- 8:00 – 8:30 am** **Coffee and Snacks**
9:00 – 9:15 am Plans for a Journal Article by Jay Nadeau
9:15 – 10:15 am Groups Discussions
- 10:30 – 10:45 pm** **Coffee Break**
- 10:45 – 11:45 am** Groups Recommendations

11:45 – 12:00 pm Closing Remarks by Jay Nadeau
12:00 – 1:00 pm Lunch