



ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

2021 Regional Conference on Permafrost
19th International Conference on Cold Regions Engineering

October 24 - 29, 2021



RCOP-ICCCE

Announcements

Thomas A. Douglas
Conference Chair

There are two conference venues:

1) E-Attend where the overall schedule is and links to pre-recorded 5 minute presentations (called “posters”) are accessed.

AND

2) SpatialChat where standalone one page posters are displayed. A few conference collaborative venues are also in SpatialChat.

Everyone got an E-mail from uspermafrost.org last week with info on accessing these. Your E-mail used to register should get you right in.



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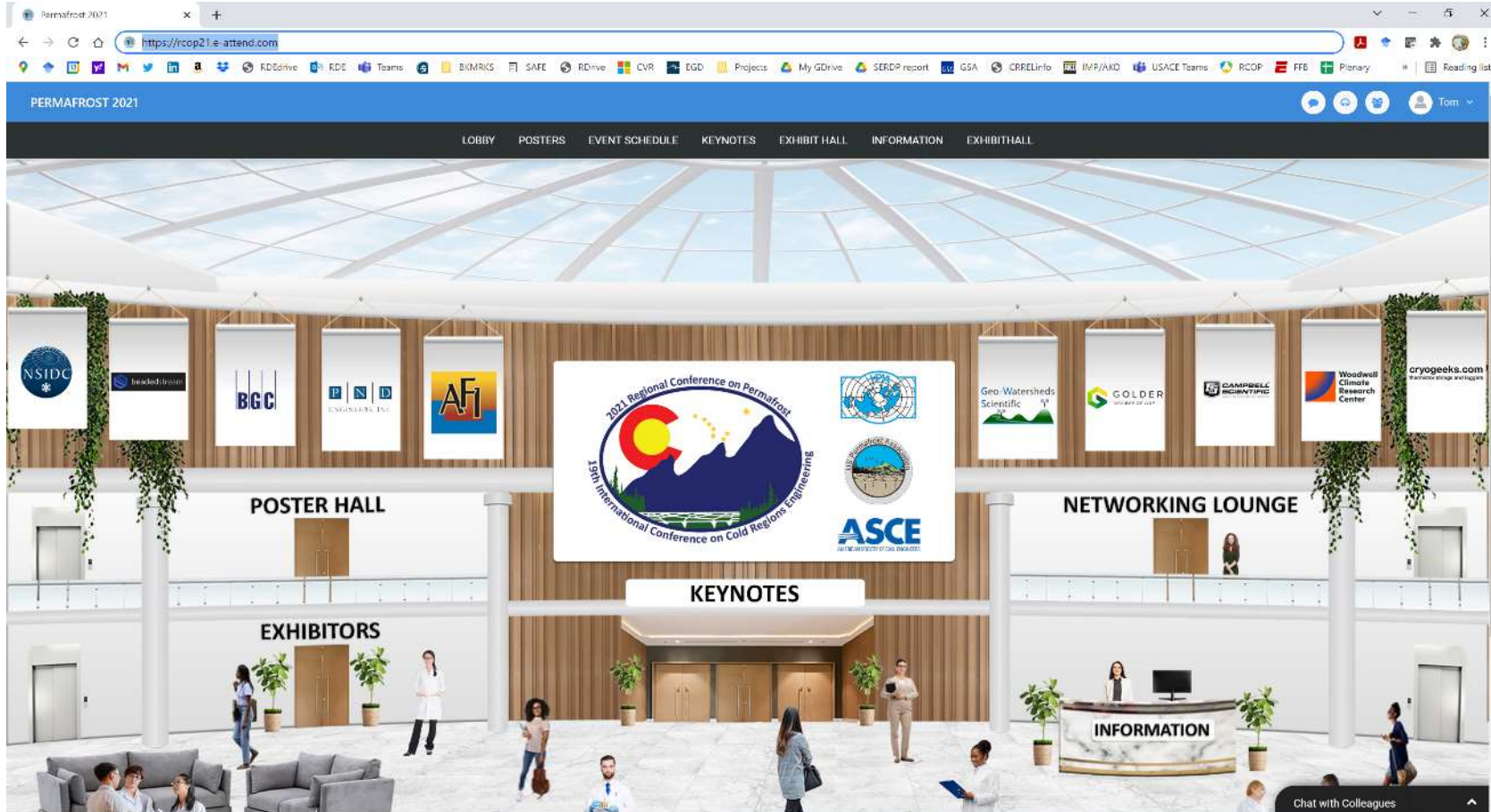
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E-attend- Conference main page, links to vendors, live talks, and pre-recorded 5 minute presentations (called “posters”)

<https://rcop21.e-attend.com/>

Use the e-mail with which you registered to access it!





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The screenshot shows the 'PERMAFROST 2021' website interface. At the top, there is a navigation bar with links for LOBBY, POSTERS, EVENT SCHEDULE, KEYNOTES, EXHIBIT HALL, INFORMATION, and EXHIBITHALL. Below this is a search bar and tabs for MAIN AGENDA, MY AGENDA, and VIEW ALL. The main content area displays a grid of poster presentations for Sunday, Oct 24th, from 10:00 PM to 10:00 PM. Each poster card includes a title, a 'Poster' label, and buttons for 'View' and 'More Info'. The posters listed are:

- SPATIAL VARIABILITY OF VEGETATION AND SURFACE COVER WITHIN DRAINED LAKE BASINS, NORTH SLOPE ALASKA
- IMPLEMENTATION OF 3 COMPONENT SEISMICS ON FROZEN GROUND
- THREE-DIMENSIONAL INVESTIGATION OF A BROAD-BASED CLOSED-SYSTEM PINGO ON THE TUKTOYAKTUK PENINSULA, NORTHWEST CANADA
- PERMAFROST WARMING AND THAW IN THE DISCONTINUOUS ZONE TRACKED USING ELECTRICAL RESISTIVITY TOMOGRAPHY, ALASKA HIGHWAY
- ESTIMATING SUB-SURFACE SNOW DENSITY USING THE SURFACE REFLECTION METHOD
- GEOPHYSICAL VALIDATION OF AIRBORNE SAR-OBSERVED PERMAFROST ACTIVE LAYER ESTIMATES, ALASKA USA
- INVESTIGATION OF PERMAFROST AND SOIL MOISTURE DISTRIBUTION USING GPR, NMR, AND ERT
- GEOPHYSICAL MONITORING SHOWS THAT SPATIAL HETEROGENEITY IN THERMOHYDROLOGICAL DYNAMICS RESHAPES TRANSITIONAL PERMAFROST
- MONTHLY UAV-BASED TOPOGRAPHIC SURVEYS REVEAL TIMING AND VOLUME BUDGETS OF SEASONAL GEOMORPHIC PROCESSES WITHIN
- IN-SITU MONITORING OF PERMAFROST'S GEOPHYSICAL AND GEOMECHANICAL CHARACTERISTICS USING DISTRIBUTED ACOUSTIC
- HIGH-RESOLUTION FROST HEAVE MAP AT FIRE SCARS IN BATAGAY, NE SIBERIA, DERIVED BY L-BAND INSAR AND VALIDATION WITH FIELD OBSERVATION
- ARCTIC EXPEDITIONARY INFRASTRUCTURE RESEARCH
- SYNOPSIS: PERMAFROST ENGINEERING IN A WARMING CLIMATE – CURRENT STATE AND FUTURE STRATEGY
- DEFORMATION CAUSED BY FROST HEAVE ON A ROCK SLOPE OF MUDSTONE
- ON THE USE OF ELECTRICAL RESISTIVITY TOMOGRAPHY MEASUREMENTS AND INDUCED POLARIZATION-SURVEYING IN ARCTIC LANDFILL
- NEW ECONOMICAL ICE CORING METHOD FOR ACCRETED ICE ON VERTICAL PILES



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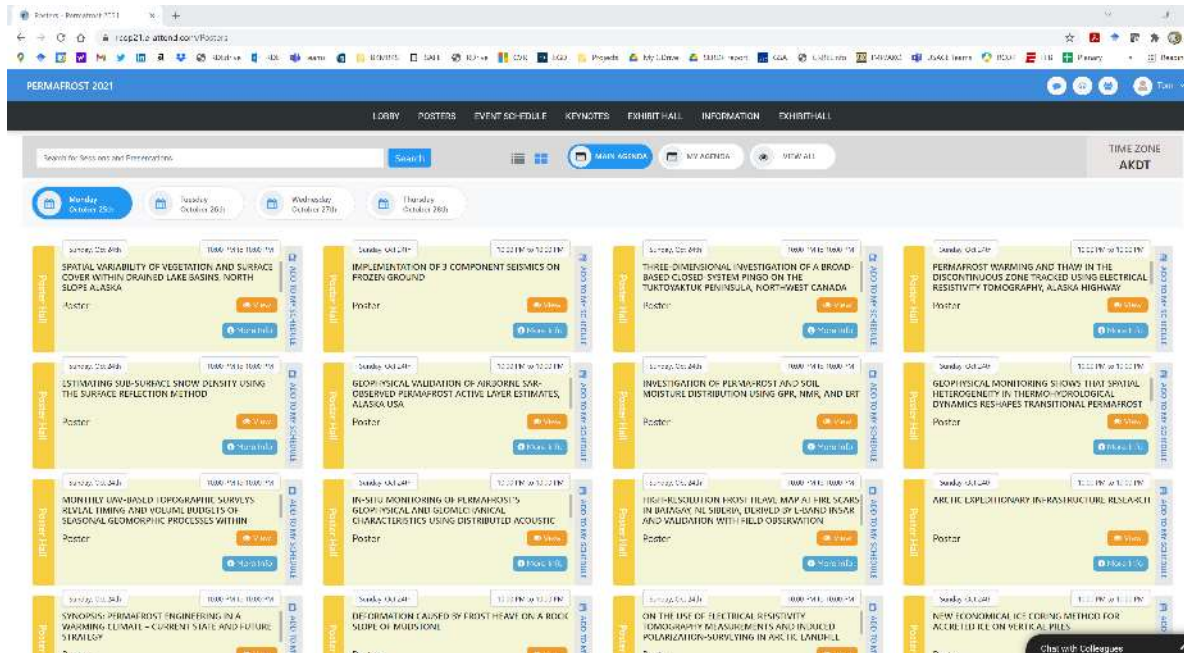
E-attend- Conference main page, links to vendors, live talks, and pre-recorded 5 minute presentations (called “posters”)

<https://rcop21.e-attend.com/>

Use the e-mail with which you registered to access it!

Please be patient when accessing presentation files in e-Attend. Large files take time to load and may look "unavailable" until they load. If a files is missing, email your file to Support. But give it some time to load first.

To access the Zoom for a session click on the "event schedule" tab in the e-Attend platform, find the session name, and then click "more info" and a “join” link will open to take you to Zoom.





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Previously recorded presentations on the site will be available for 3 months starting now!

The image shows a digital event card for a conference session. On the left, a vertical blue bar contains the word "Auditorium" in white. At the top, two white boxes indicate the date "Monday, Aug 16th" and the time "9:00 AM to 10:15 AM". The main title of the session is "OPENING GENERAL SESSION & KEYNOTE SPEAKER". Below the title, the text "On Demand" is displayed. To the right of "On Demand" is an orange button with an eye icon and the word "View". At the bottom, there are two buttons: an orange one with a presentation screen icon and the word "Presentations", and a blue one with an information icon and the words "More Info". On the right side of the card, a vertical grey bar contains the text "ADD TO MY SCHEDULE" in blue, with a calendar icon at the top.

If you are looking for someone's email, go to the information desk, go to e-Attend and click on "find colleagues" and download their vcard.



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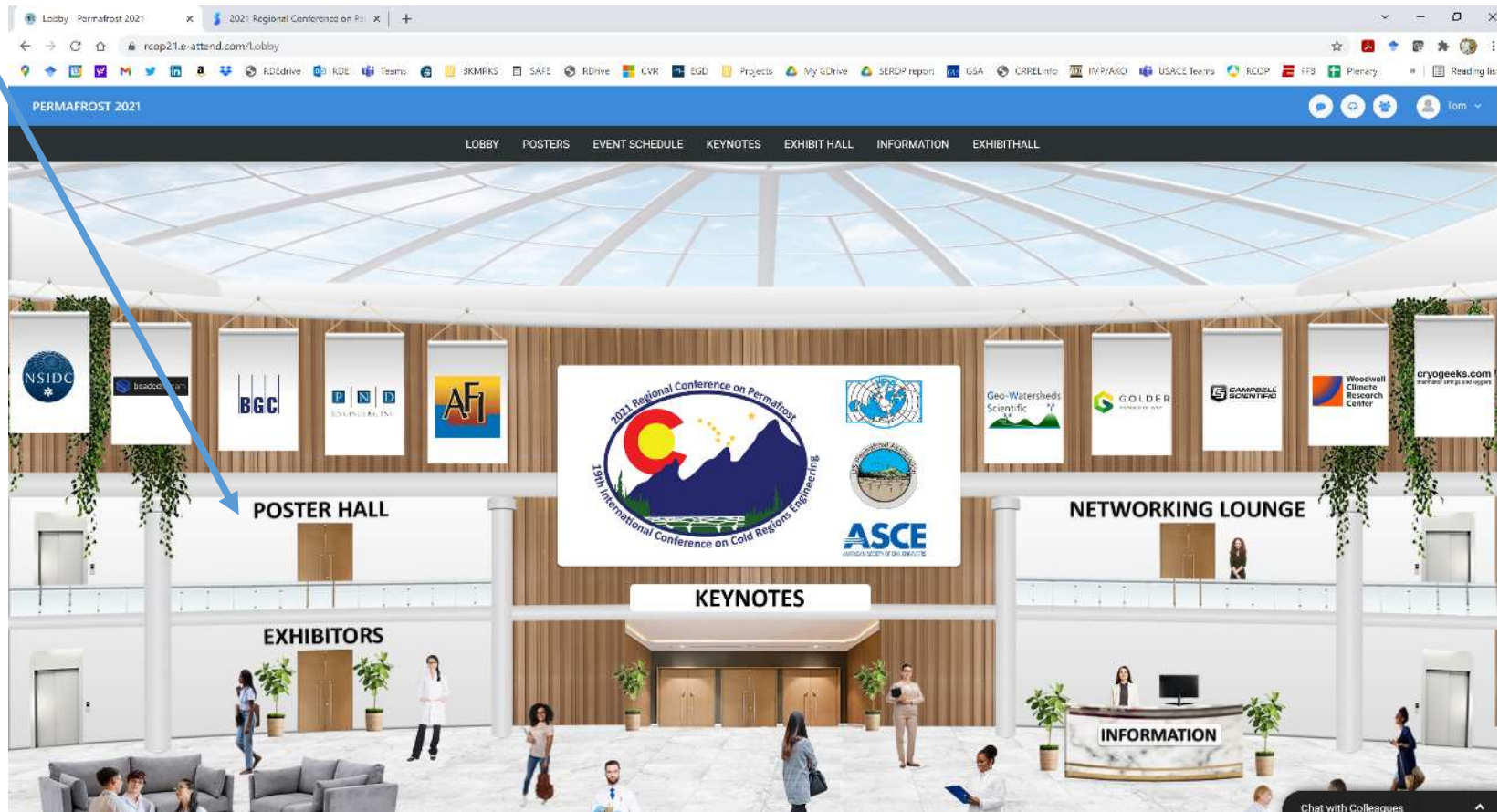
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SpatialChat- one page posters and places to meet and mingle

spatial.chat/s/RCOP2021

Use the e-mail with which you registered to access it!

From E-attend access the posters on SpatialChat here





SpatialChat- one page posters and places to meet and mingle

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Use the e-mail with which you registered to access it!

General Conference Info:
Posters and poster sessions are here in SpatialChat!
To view recordings: Go to <https://rcop21e-attend.com/> and click on the "poster" tab. If files are missing, please email support@rcop-attend.com
The zoom sessions are available on e-Attend under the "Event Schedule" tab, scroll to the session and click the "more info" tab to get to the zoom link.

Mountain Time	Sunday 24	Monday 25	Tuesday 26	Wednesday 27	Thursday 28	Mountain Time
10am-11am		Poster Session 3, 4	Poster Session 5, 6	Poster Session 7, 8, 9, 10, 11	Poster Session 12, 13, 14, 15, 16, 17, 18	(Closed)
11am-12pm		Spring Breaks: Alaska, 1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31	Workshop: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31	Workshop: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31	Workshop: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31	(Closed)
12pm-1pm	PERM activities	[Session 1] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes	[Session 2] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes	[Session 3] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes	[Session 4] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes	[Session 5] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes
1pm-2pm		Meet the RCOP & ICRC Sponsors in the Exhibit Hall!				
2pm-3pm	[Session 6] Taking a Look at the Downside of Microorganisms and their Potential for Permafrost	[Session 7] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes	[Session 8] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes	[Session 9] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes	[Session 10] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes	[Session 11] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes
3pm-4pm	[Session 12] New Methods: Sensing, Technology and Applications to Map the Past, Present and Future of Permafrost	[Session 13] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes	[Session 14] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes	[Session 15] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes	[Session 16] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes	[Session 17] Geophysical and Remote Sensing Investigations of Changing Permafrost Landscapes

Welcome!
How to use SpatialChat:

- SpatialChat provides virtual rooms where you can move freely and connect with friends and colleagues.
- Your radial distance from other attendees' avatars govern your speaking/hearing volumes.
- You move through a room by moving your avatar.
- You can zoom in and out within a room by scrolling your mouse or using control on bottom right of screen.
- To move to a different room, select it from the list on right of room.
- If you click on an attendee in the list, you will move next to her/him.

Toggle between:
Rooms and attendees, or Chat

Various tools
Room zoom

Attendee List:
Welcome to RCOP2021! 1 4/50
Tom Douglas (you)
Bradley Gay
Rada
Susan Randlett
Welcome to RCOP2021! 2 1/50
The fire pit 0/50
The bar 1/50
Help Room 0/50

Room List:
1. Geophysical & remote sensin
2. Infrastructure engine... 4/50
3. Microorganisms
4. Ground-ice distribution
5. New remote sensing technol.
6. Geologic terrain analy... 0/50
7. Global Terrestrial Netw... 1/50

Footer:
We created a USPA YouTube channel. If you want to contribute with content, such as your recorded presentations, please email Peppi your file! rcop@civilu.com



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Note SpatialChat has a megaphone where you can be heard by the entire "room." Otherwise, the closer you move to a speaker's emoji the louder their voice (and yours) will be.

The screenshot displays the SpatialChat interface for the 2021 Regional Conference on Permafrost. The main area shows a virtual landscape with several posters pinned to it:

- Frauenfelder:** "On the use of Electrical Resistivity Tomography measurements and induced Polarization-surveying in arctic smallmouth assessments".
- Lynn:** "Teamwork in the Trenches: An interdisciplinary effort to address utility-related lands rehabilitation".
- Mohammadi:** "Application of empirical correlations for predicting thaw settlements: A case study of Inuvik, Canada".
- Sajid:** "Employing Polyols for Increasing Ice Melting Capacity and Decreasing Freezing Point of Salt Brine Deicer".

The right sidebar contains a chat log and a list of topics:

- Welcome to RCOP2021! 1 3/50
- Welcome to RCOP2021! 2 1/50
- The fire pit 0/50
- The bar 0/50
- Help Room 0/50
- 1. Geophysical & remote sensin
- 2. Infrastructure engine... 5/50
- Tom Douglas (you)
- Hizb Ullah Sajid
- Thomas Berglin
- Susan Randlett
- Jim Rypkema, Alaska DEC
- 3. Microorganisms
- 4. Ground-ice distribution
- 5. New remote sensing technol.
- 6. Geologic terrain analy... 0/50
- 7. Global Terrestrial Netw... 1/50

At the bottom, there are navigation icons for home, back, forward, and search, along with a volume icon and a 47% battery indicator.



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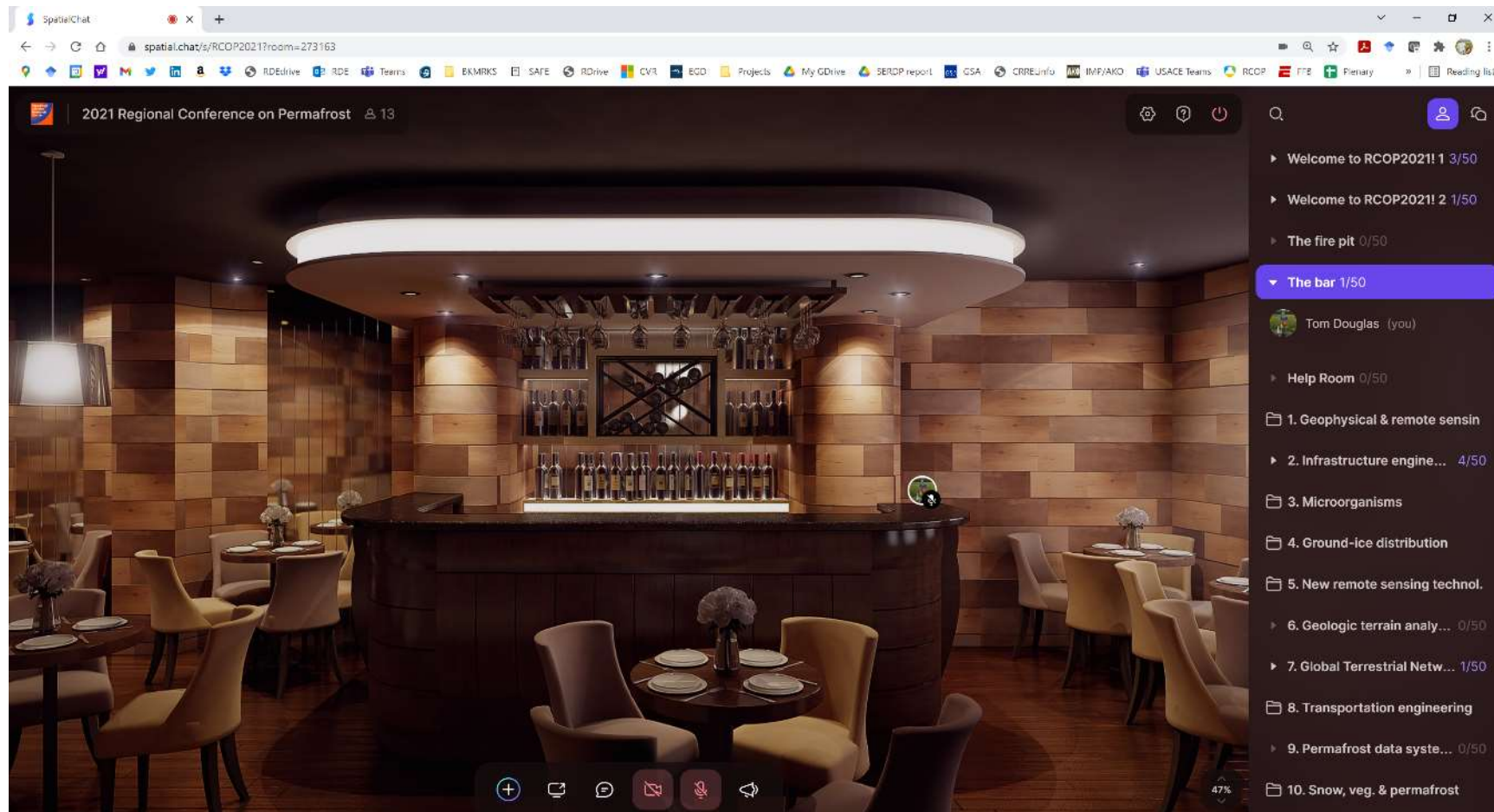
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By myself at the bar last night.....





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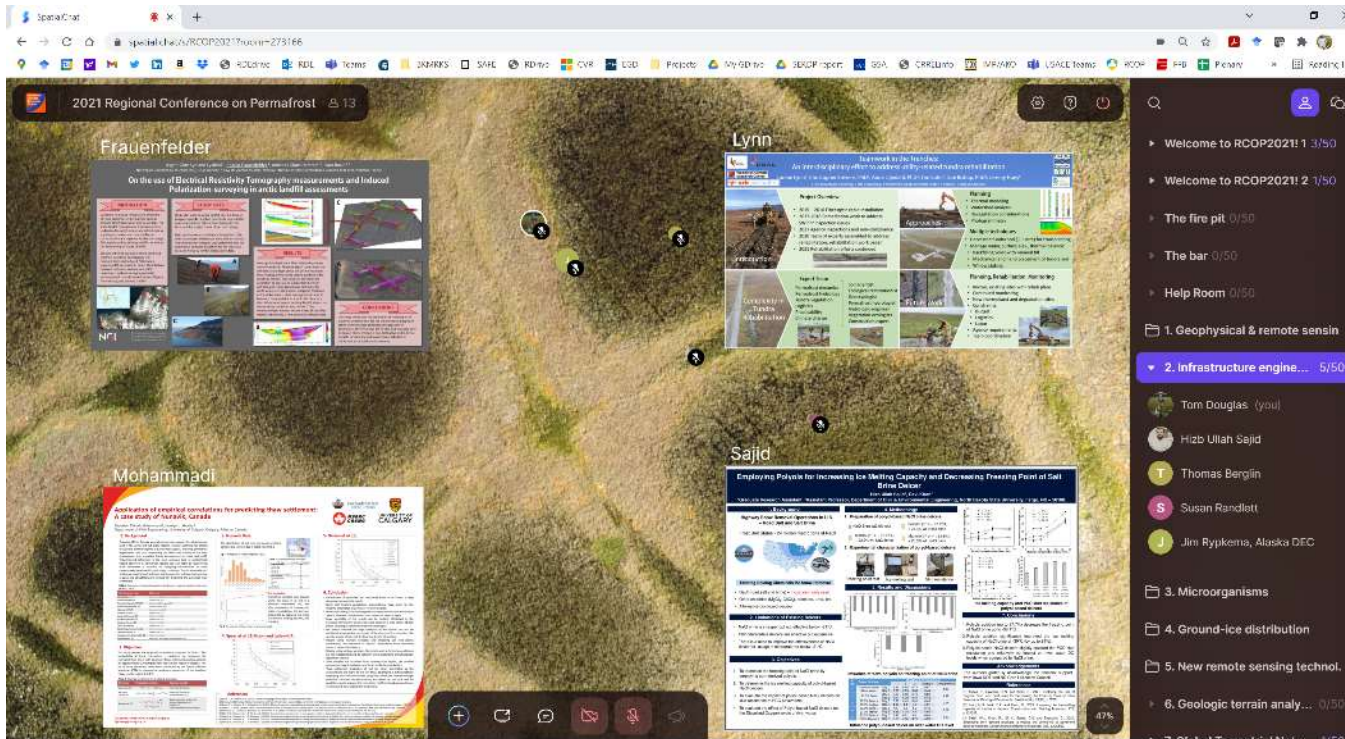
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Please turn off your hot mic when you move from SpatialChat to a Zoom session as it can lead to background noise.

Some of the poster sessions did a "few minute walk" in SpatialChat during their scheduled time. The crew moved from poster to poster together and allowed the presenter a few minutes time to present and answer questions. The conveners kept time and got people moving from one poster to the next.



If you are on a government computer, you may not be able to get onto SpatialChat. Don't give up, try it on your personal computer because it is a great way to interact!