4th International Bee and Hive Monitoring (ZOOM) Conference

Zoom Conference, July 13-14, 2020

Pre-Recorded 15 Minute Presentations: Due on or before July 3, 2020
Abstracts for October issue of Bee Culture: Due on or before July 3, 2020
Pre-Conference Presentations and Abstracts: Stored on a University of Montana (UM) Unlisted Channel
Post-Conference Presentations: As approved by each speaker, will be made public on an UM Public Channel
Donation/Registration $20: https://colonymonitoring.com/events/, Click on Event, and PayPal Donation Button comes up.

Dear Monitoring Specialists:

Frank Linton and I are pleased to invite each of you to take part in an International Zoom Monitoring Conference. Due to COVID-19, we have rescheduled the in-person, Montana Bee Summit meetings for July 12-13, 2021.

We are substituting a zoom conference for this summer. We will conduct this video conference on the selected initially dates, July 13-14, for the 2020 Missoula conference.

A digital meeting provides everyone with an opportunity to give a status report on their bee and hive monitoring activities. We also want to start a discussion about forming a professional organization for all of us engaged in these innovative and emerging technologies.

We will organize the zoom speakers into Topic groups. Each Topic group will have a moderator. We expect most of these groups to consist of about five speakers, not more than ten. Each speaker will give a short, no more than 15 minutes; the presentation focused on a specific technology or data from a study. Talks should be informational and educational, not product advertisements.

During each talk, a moderator will compile chat comments sent by the Topic audience. After the speakers in a Topic group have completed their presentations, the moderator will convene a panel of speakers to address questions posed by conference members.

Previously, we asked for abstracts that could be published in the October 2020 issue of Bee Culture. We would still like to see that happen to increase public awareness of bee and hive monitoring technologies. Besides, the abstracts will serve as a springboard to the rescheduled 2021 conference in Missoula.

For this summer's Zoom Conference, we are asking that each speaker pre-record their and their presentation. We ask that all abstracts and pre-recorded presentations abstracts be submitted to us no later than July 3, preferably sooner. Also, do not forget

to register (make a $20 donation). The time deadline allows us to adjust final conference schedules, post-conference abstracts, and organize the pre-recorded presentations. The registration fee will pay for UM media students to upload presentations to the Conference YouTube and zoom sites and to provide technical support to Topic Moderators.

Pre-recorded presentations help our organization of the group sessions and allow for a pre-conference quality check. As a courtesy to the other speakers, we ask that each speaker in a group be present for the presentations and available for a live question and answer session.

The **Topic Group** list includes, but is not necessarily limited to the following:

- Bee Management Software
- Apps, Maps, and Other Stand-alone Programs for Smartphones and Tablets
- Scale-hives and Sensors for Data-Driven Bee Management
- Bee and Hive-Centric Sensor Devices
- RFID Solutions for Research
- Infrared Imaging Research and Applications
- Hive Monitoring for Asset Security and Theft Protection
- Chemical and Biological Monitoring of Bee Colonies (Pesticides, pests, diseases)
- Complimentary Technologies to Leverage Bee and Hive Monitoring, Networking, Tracking

Please note that Frank and I may add, remove, or change group Topic categories depending on the submissions that we receive from speakers. Considering the time zone shifts for an International Conference, we will try to schedule groups with speakers from disparate time zones to avoid requiring speakers outside of the Americas to be present in the middle of the night for the live Q&A sessions.

To summarize, for July 13-14, 2020, we will host an International Bee and Hive Monitoring Conference using zoom video conferencing.

By or before July 3, 2020, please email Jerry Bromenshenk (beeresearch@aol.com, Subject: Monitoring Conference) to:
- Confirm that you will attend the Zoom Conference
    - Name, Institution, email address, phone number (optional)
    - Attending as a
        - Speaker or Member

Also, you will need to upload to the Dropbox link that we will soon provide:

- A publication-ready Abstract with:
    - Name of Presenter(s)
    - Affiliation(s)

- o   Abstract Title
- o   Abstract Body (250-word limit)
- o   Acknowledgments
- A 15-minute presentation recorded in an MP4 format
  - o   Name of Presenter(s)
  - o   Affiliations(s)
  - o   Presentation Title (should match Abstract Title)
  - o   Presentation (you can use zoom's Share Screen to capture pictures, slides, videos, etc.)
  - o   Acknowledgments

Videos should be high-resolution, no longer than 15 minutes, and saved as an MP4 file. We are setting up and will send everyone a Dropbox link for submitting Abstracts and Video Presentations.

For ease of recording your presentation, you can use the record function in zoom to prepare and save your performance.

Everyone involved with bee and hive monitoring should be familiar with zoom videoconferencing. If not, download a free copy of zoom from the Internet. The free version has most of the features of a paid, licensed copy. The major limitation of the free version is a 40-minute limit per session.

For an International zoom conference, only the Host must have a paid subscription. Our current license supports as many as 300 participants, and it can be increased to 600. There is no time limit for the host or invited participants. Invitations are sent to participants via a link embedded in an invitation email.

Pre-Presentation Recordings:

Zoom can be used to record presentations. The Share-Screen button allows for the inclusion of documents, charts, videos, and audio files. We ask that everyone use the zoom recording function to record and save his or her 15-minute presentations. Please use Zoom's Convert Meeting Recording function to format the saved recording as an MP4 file.

For those who have not recorded zoom sessions, launch zoom. On the Home page, click on the Gear icon at the top right of the screen. That should open a drop-down Settings menu on the left of the screen. Click on Recording and select Optimize 3rd Party Video (that enables the MP4 conversion). Open a zoom meeting as a Host. Test that your audio and video are on and working correctly, using the left-hand buttons for Audio and Video on the zoom taskbar at the bottom of the screen.

Have your presentation materials like slides, charts, documents, whiteboard, etc. in an easy to find and open folder. Use the Share Screen button to access these materials. When ready to start your presentation, click on the Record button in the zoom taskbar, just left of the center of the screen.

A menu will ask whether you want to Record on this Computer or Record to the (zoom) Cloud. We suggest that you use Record on this Computer. As soon as you make your choice, a recording of the session will start. Pause and Stop Recording buttons appear at the top of screen in the left corner and one the zoom taskbar at the bottom of the display.

Make your presentation as if you were talking to an audience. In this case, your audience and sole presenter is yourself. Set a timer to ensure that you complete your recording in 15 minutes or less. When you have finished your presentation, click on the Stop button. An End Button with a red background should appear in the right-hand corner of the zoom taskbar. Click on END. Now, you may Exit the zoom session. These two steps activate Zoom's Convert Meeting Recording to MP4 video. This step takes a bit of time. For example, a 90-minute classroom zoom session requires about 20 minutes for rendering and producing the MP4 recording. When done, zoom will save and open a folder on your computer. The folder should have three output files. An audio file, a Playback File, and the zoom session file with audio and video. You can click on the zoom file to see the finished recording. Since it is in an MP4 video format, it can be edited by a variety of video apps or uploaded to YouTube and then edited. Besides, you will want to rename the saved video file. Please follow this format for naming your recording: SpeakerName_PresentationTitle.

If you make a mistake, do not worry. Zoom does not care how many tries it takes to get a sound recording. I suggest doing a couple of short practice recordings. If you save your presentation to your computer, it will place it in a zoom folder. On my PC, it appears under My PC>Documents>zoom>date.name.number. Under the Recording menu in Settings, the folder name for saved recordings can be changed.

If you choose to save the recording to the zoom Cloud, you will get an email notification when the Recording has been converted to an MP4 format, with links for your access or to share with others. Unfortunately, zoom has a 1 GB limit on file storage, and access to Cloud storage may not be available to everyone.

We suggest saving the Zoom Presentation on your computer. We are setting up an unlisted YouTube Channel for storage and access to the presentations. An unlisted YouTube allows the Channel owner to designate who has access to the videos.

We are looking forward to seeing presentations from every one of the 50 research groups and companies who expressed interest in coming to our scheduled initially 2020 Technology Field Camp and MT Monitoring Conference. We are asking for a modest registration fee of $20 US so that we can hire some University of Montana media students to help participants with their presentations.

Please let us know that you are going to take part in our 2020 ZOOM Monitoring Conference. Get your Abstracts and Presentations to us before the end of June, if possible. July 3rd is the latest that we will consider submissions.

COVID-19 may present an obstacle, but it is not a barrier for a Conference. Hopefully, a vaccine and better treatments will be available before July 2021, so that we can all get together.

Best Regards to all. Stay safe and healthy.

Jerry and Frank