QUAREP-

3rd WG7 - Metadata meeting – minutes

Location: Zoom – University of Massachusetts Medical School, Worcester, MA
             Will be sent to WG7 members by email

Date/Time: 3/15/2021 (11:00 – 12:30 EDT)

Host: Caterina Strambio De Castillia (CS)
Chair: CS, Suanne Kunis (SK)
Minutes Authors: Miso Mitkovski, Susanne Kunis

Participants

Caterina Strambio De Castillia (UMass, Worcester, USA), Susanne Kunis (Osnabrueck, Germany), Damir Sudar (USA), Miso Mitkovski (Goettingen, Germany), Ulrike Boehm (Janelia Farm, USA), Josh Moore (OME), Elnaz Fazeli (Finnland), Thomas Guilbert (Paris, France), Santosh Podder (Pune, India), Shuichi Onami (Riken, Japan), Evangelos Sisamakis (PQ, Germany), Ian Dobbie (Oxford,GB), Steve Ogg (Univ. Alberta, Canada), James Chambers (UMass, Amherst, USA), Jaime Arturo Pimentel Cabrera (UNAM, Mexico), Vincent Schoonderwoert (SVI, Netherlands)

Agenda

Link to Agenda

Minutes

1. **Welcome Recording agreement & minutes writing**

2. **Decision about monthly meeting schedule**

    • Which time/day is preferred for participants from the US West/East Coast, Europe, Japan, India...?

    • It was agreed that future WG7 meeting time will be **11 EST (3pm UTC); every 3rd Monday of the month**

3. **Overview about the general progress of QUAREP-LiMi – WG7 Metadata**

    • Multiple manuscripts being written

    • Susanne K. is the group's webmaster. Will inform us about it, as well as Slack channel

    • Slack

        ▪ There is a WG7 Slack channel. Be sure to check it frequently, as it will be our live messaging tool.

- - After 10K messages, old messages will start to get deleted. Incrementally save Slack channel history?

  - Ulrike B. may have a way to establish an "enterprise Slack scenario" in which channel history will not be deleted. She will look into it.

- Be aware of our QUAREP online space at this link. Be sure to contact us (Roland?) in case you don't have access.

- Relevant manuscripts in progress (8 total)

  - Microscopy Metadata Model; OMERO.mde (link); Micro-Meta App; MethodsJ2, QUAREP LiMi White Paper

- Communication with WG1

  - Illumination QC with Metadata model; working on coordination with other QUAREP WGs

4. **Introduction to discussion about short, medium and long term goals (points 5 – 8)**

   - Slack Survey results/report/discussion

5. **Feedback and revisions of Microscopy Metadata Model**

   - Model should be presented to the microscopy community (scientists, manufacturers, database curators, etc.) and obtain feedback.

   - Peter B. (NIST) has been contacted and may join us at the next meeting regarding "how to formalize the process?, how to deal with 1000s of comments?"

   - Damir S.: has setup templates for issue reporting

   - Can interact/collect experience/develop feedback with the metadata with, for example, the Micro-Meta App (link)

   - Damir S: Presented GitHub link to "Microscopy Metadata Tiered guidelines" (link); another way to interact with the model

     - Can open an "issue ", i.e. "too many redundant fields ", etc.

     - In GitHub, go to "Issues " tab> Started> Fill in name and summary statement> follow template for issue description

     - Micro-Meta App field names are synchronized with GitHub

     - Damir will generate a README explaining the above

   - Susanne K. will link the new structure to our QUAREP website

   - Roland N: Show Micro-Meta App at ELMI (22-25 June, 2021), European community will be present.

6. **Reach out to manufacturers about Microscopy Metadata model**

   - Need manufacturer feedback

   - Roland N:

     - Has contacted Zeiss

     - Prepare high-level meeting w/ Caterina on board; present Micro-Meta App

- Setup meeting w/ PicoQuant (Jürgen Breitlow, Evangelos Sisamakis) to discuss "smart" drop-down menus, etc. In other words: setup use case with company to then show to others, but concept has to be very mature.

- Josh M.: Need for libraries. And be clear about the status with early adopters.

- Initial proposal based on devices manufacturers and scientists, then vote...

- Caterina: need compromise that allows community input (not set in stone), but also allows for incremental progress

- Ulrike B: need platform (web?) that simplifies interaction; a step-by-step guide; videos. These should foster interaction with community; make more attractive.

  - Microscopy companies just need to expand their metadata info. Maybe some sort of converter (xml to json file) could be established to bring metadata into library.

  - Caterina: Micro-Meta App not thought of as final tool.

- Caterina: we need to setup scenario, which is then followed by manufacturers. If manufacturers want to use new terminology, then they have to take care of the "translation".

- Vincent S. (SVI): feedback regarding file readers, metadata parsing.

7. **Education about the importance of Microscopy Metadata**

- Outreach effort, especially toward scientists

- Create education material

- Meeting with Global BioImaging (Gleb Grebnev) coming up stressing the above. Call for WG7 members to get involved.

8. **Metadata storage specifications**

- Standardization and compatibility with next generation file format

- Call to WG7 members to get involved in this discussion.

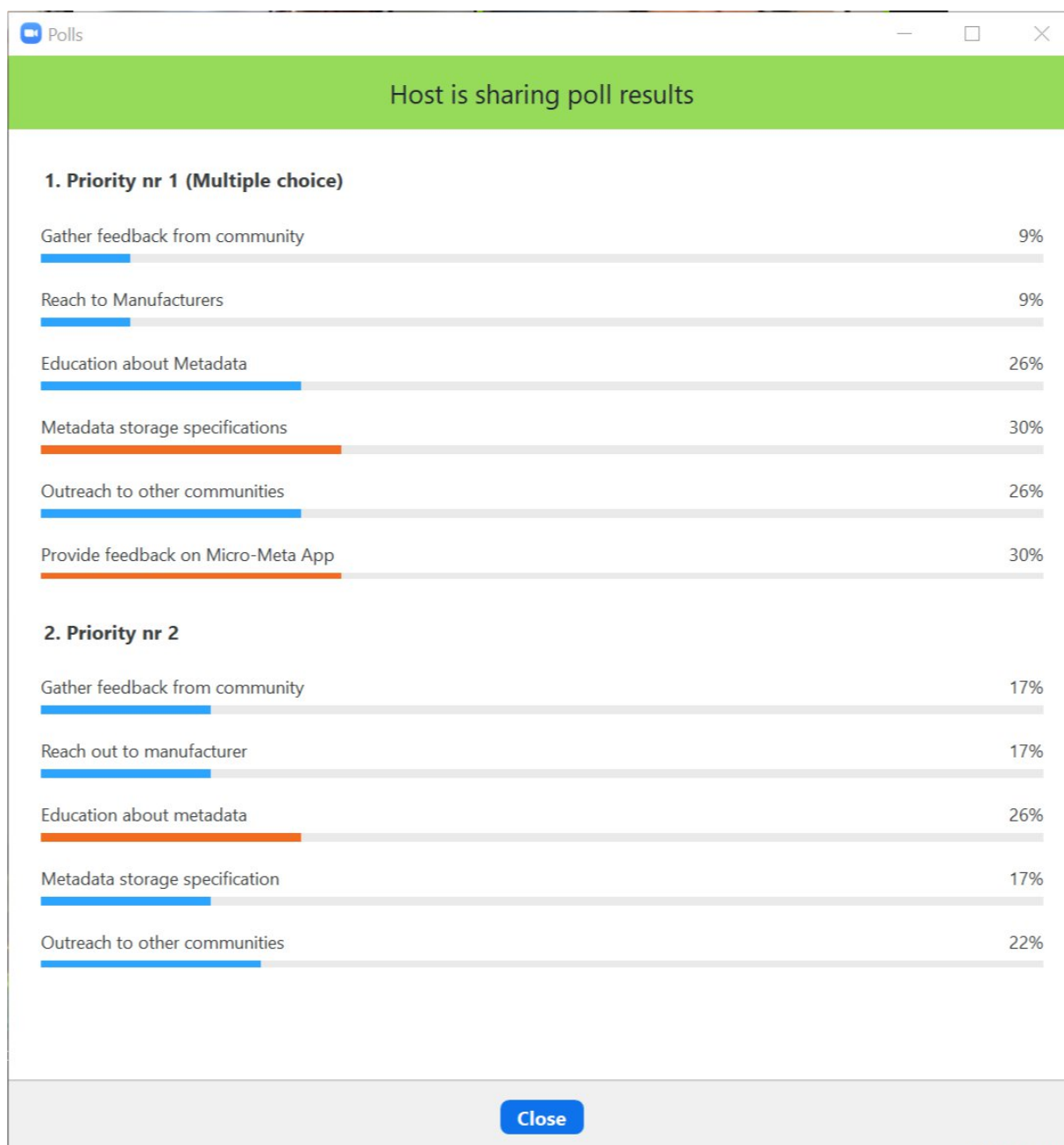9. **Outreach to other communities about Microscopy Metadata model**

- May want to reach out to other communities

- Ulrike B.: suggested EM community contact

- Roland N: Contact Wiebke M?

- Roland N: Can show Micro-Meta App at ELMI as part of a workshop (link)

10. **Coordination with other QUAREP-LiMi WG to incorporate their protocols and metrics into Microscopy Metadata Model**

11. **Decisions and assignment of task**

- Vincent S. (SVI): can share use cases emphasizing importance of metadata. Asks where to post it? Should post it on the QUAREP cloud.

- Ulrike B: shared link to EBI course on data management (link, link2). Maybe we could use the concept to inspire a metadata course/site to be implemented in a core facility setting.

- Josh (chat): I will need to leave in 5 minutes. I'd obviously vote for 8. storage specification as well. ;) Happy to be involved, but especially happy to have _others_ involved. Please get in touch. (j.a.moore@dundee.ac.uk or on the slack) For my part, I'd like to see some sharing use cases and can imagine storing public datasets with this metadata in the Image Data Resource.

- Roland N.: Have a 10-people Zoom session dedicated to Micro-Meta App, record it/digest feedback.

- Prioritization

  - May need a subgroup to decide what is to be shown in the ELMI workshop. Need to distribute work to additional members.

- Shuichi O: Reminder to include sample preparation metadata. Can talk to Nikon/Olympus in with regard metadata education.

Polls — Host is sharing poll results

1. Priority nr 1 (Multiple choice)

Gather feedback from community	9%
Reach to Manufacturers	9%
Education about Metadata	26%
Metadata storage specifications	30%
Outreach to other communities	26%
Provide feedback on Micro-Meta App	30%

2. Priority nr 2

Gather feedback from community	17%
Reach out to manufacturer	17%
Education about metadata	26%
Metadata storage specification	17%
Outreach to other communities	22%

Close

Action item	Owner	Deadline	Status
[action item]	[Name(s)]	[Date]	[Status, like "in process" or "Done"]
Micro-Meta App Feedback	**Caterina Strambio-De-Castillia, Roland Nietscke** Contact: caterina.strambio@umassmed.edu to join this group	19. April, 2021	In progress
Metadata education	**Caterina Strambio-De-Castillia, Nathalie Gauldreault,** Susanne Kunis, Elnaz Fazeli, Shuichi Onami, Ulrike Boehm, Santosh Podder Contact: caterina.strambio@umassmed.edu to join this group	19. April, 2021	In progress
Metadata storage specification subgroup	**Damir Sudar, Guillaume Gay,** Arturo Pimentel Contact: dsudar@qitissue.com to join this group	19. April, 2021	In progress
Add content to website	Susanne Kunis	19. April, 2021	Done