

Nist web meeting

December 11, 2015

Contents

1	SFE schema 8:30 - 10:00	1
1.1	attendees	1
1.2	Points	2
2	Integration xrd equipment 10:30 - 12:00	2
2.1	attendees	2
2.2	Points	2
2.3	Questions	3
3	Processing structure 1:30 - 3:00	3
3.1	attendees	3
3.2	Points	3
3.3	Questions	4
4	Galaxy presentation 3:00 - 4:30	4
4.1	attendees	4
4.2	Points	4
4.3	Questions	4

1 SFE schema 8:30 - 10:00

1.1 attendees

- Nayan chaudhary, zach trautt, anjana, Daniel Saucedo, Ram, Arroyave

1.2 Points

- Start making something and evolve over time
- make the schemas reusable
- Data can be viewed **2** ways
 - material centered
- or
- paper centered (document centered)
- build a widget for entering DOI for a paper and gets all bibliography data
 - **TODO**: use zach curl code for pulling bibliography data via DOI
 - * contact: Alden Dima, Kari
- For xml namespaces look at zachs demo on github
 - **TODO**: Review zach trautt github namespaces
- processing schema should be as generalized as possible
 - we understand that this will not be perfect when we start

2 Integration xrd equipment 10:30 - 12:00

2.1 attendees

- Daniel Saucedo, Nayan chaudhary, Raymundo Arroyave, Anjana, Daniel Salas, Ji ma

2.2 Points

- unstructured data is meaningless to computer (materials data)
- each institution will have its own repository
- We want automated data entry computer → computer
- How to do this
 - compose or upload data model

- * focus on automation form instrument at a time
- * Do this by making models
- **TODO** : focus on data model
- **TODO** : get zachs script for transformation for broker data

2.3 Questions

- **Q:** Should the supporting data columns and row data be a stored as blob or in the schema?
 - we want to process it at some point
- **A:** make as unbounded list and put entire thing as a blob. each row could be a quantity or **columns arrays**. for plotting use columns.
- **Q:** (Nayan) Should we be dumping **all** data into the curator (without knowledge)?
- **A:** (Zach) Focus on what data is necessary for the data to be **reuseable** and capture that. Knowledge will come later
- **Q:** What about data that is not generated by the machine?
- **A:**
- **Q:** What about capturing histerisis
- **A:** Process of sample becomes processing steps of data steps

3 Processing structure 1:30 - 3:00

3.1 attendees

- Daniel Saucedo, Raymundo Arroyave, rudulfo arramayo, Daniel Salas, Ji ma

3.2 Points

- Handle system for naming each sample
- store processes as individual paths
 - copy paste operation for making a new

- use a sequence of process
- work **offline**
- **TODO:** make processing chema

3.3 Questions

4 Galaxy presentation 3:00 - 4:30

4.1 attendees

- Daniel Saucedo, Raymundo Arroyave, rudulfo arramayo, Ricardo Perez, Anjana

4.2 Points

- Aramayo presented galaxy
- **TODO:** incorporate materials scripts into galaxy

4.3 Questions