

Common Fund CryoEM Centers Annual Meeting

24 - 25 May 2022

New York, NY

Hosted by

National Center for CryoEM Access and Training (NCCAT)

New York Structural Biology Center

Tuesday 24 May 2022

8:00 am **Breakfast**

8:30 pm **Welcome** **Clint Potter, NCCAT**
Welcome **TBD (NIH representatives)**

8:40 am **National CryoEM Centers Progress** **Bridget Carragher, NCCAT**
8:45 am **Amy Liu, S2C2 (Training Focus)**

(15 minutes + 5 minutes for questions)

9:05 am **Claudia Lopez, PNCC (Outreach and Access Focus)**

(15 minutes + 5 minutes for questions)

9:25 am **Ed Eng, NCCAT (Automation Focus)**

(15 minutes + 5 minutes for questions)

9:45 am **User Talks** **Mike Schmid, S2C2**

9:50 am **Bret D. Freudenthal, U Kansas Medical Center**

(12 minutes + 3 minutes for questions)

10:05 am **Sudha Chakrapani, Case Western U**

(12 minutes + 3 minutes for questions)

10:20 am **Andrew Santiago-Frangos, Montana State U**

(12 minutes + 3 minutes for questions)

10:45 am **Coffee Break**

11:15 am **National CryoET Centers Progress** **Steve Reichow, PNCC**

11:20 am **Elizabeth Wright, MCCET (Overview)**

(12 minutes + 3 minutes for questions)

11:35 am **Lydia-Marie Joubert, SCSC (Methods Focus)**

(12 minutes + 3 minutes for questions)

11:50 am **Andy Hoenger, CCET**

(12 minutes + 3 minutes for questions)

12:05 am **Misha Kopylov, NCCAT (Training Focus)**

(12 minutes + 3 minutes for questions)

12:30 am **Lunch**

1:30 pm **Keynote Lecture** **David Baker, U Washington**

- 2:15 pm** **Panel discussion: impact of RoseTTAFold and Alphafold**
Pilar Cossio, Flatiron Institute
Panelists: David Baker, U Washington; Stephen Burley, Rutgers U;
Oliver Clarke, Columbia U
- 3:00 pm** **Coffee Break**
- 3:30 pm** **Curriculum Development Talks** **Clint Potter, NCCAT**
3:35 pm **Julia Brasch, U Utah**
(12 minutes + 3 minutes for questions)
3:50 am **Yingjie Victor Chen and Wen Jiang, Purdue U**
(12 minutes + 3 minutes for questions)
4:05 am **Michael Cianfrocco, U Michigan/UCSD**
(12 minutes + 3 minutes for questions)
4:20 am **Grant Jensen, Caltech**
(12 minutes + 3 minutes for questions)
4:35 am **Christina Zimanyi, NCCAT; Merit Badge Update**
(12 minutes + 3 minutes for questions)
- 5:00 pm** **Snacks and drinks**
- 7:00 pm** **End of day**

Wednesday 25 May 2022

- 8:00 am** **Breakfast**
- 8:30 pm** **Screening at the National CryoEM Centers** **Craig Yoshioka, PNCC**
8:35 am **Omar Davulcu, PNCC**
(12 minutes + 3 minutes for questions)
8:50 am **Htet Khant, S2C2**
(12 minutes + 3 minutes for questions)
9:05 am **Eugene Chua, NCCAT**
(12 minutes + 3 minutes for questions)
- 9:30 am** **Breakout Sessions** **Eric Gouaux, PNCC**

Proposed topics:

RMS/ Measuring Project Success: Elina Kopylov, NCCAT; Stefan Maas, NIH
Future of Training: Claudia Lopez, PNCC; Amy Liu, S2C2
Centers role in image processing/ Data storage and retention: James Evans, PNCC; Craig Yoshioka, PNCC; Yee Li, S2C2
Future of instrumentation/technology: Bridget Carragher, NCCAT; Wah Chiu, S2C2
Outreach to resource limited institutions: Steve Reichow, PNCC; Lydia-Marie Joubert, S2C2
Common Efforts Between the Centers: ??????

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10:30 am Coffee Break

11:00 pm Keynote Lecture Elizabeth Villa, UCSD

11:45 pm Summary of Breakout Sessions Eric Gouaux, PNCC

12:45 pm Box Lunch

1:30 pm End of Joint Session

[The meeting will then break into two tracks]

Track 1 National Centers for Access and Training

1:30 pm Extended tours and demonstrations at NCCAT/NCITU

Discussions and breakout sessions for individual or small groups

[These will be located at Simons Electron Microscopy Center where NCCAT and NCITU are housed. We will have breakout rooms available in case groups want to organize into small meetings]

Track 2 National Centers for CryoET

1:30 pm Welcome Elizabeth Wright, MCCET

1:35 pm User Projects TBD

1:35 pm Keith Thompson, MCCET (User base overview)

(12 minutes + 3 minutes for questions)

1:50 pm Gira Bhaba, NYU (User project)

(12 minutes + 3 minutes for questions)

2:05 pm Andy Hoenger, CCET

2:20 pm Stefan Olivier, Stanford Medical School

(12 minutes + 3 minutes for questions)

2:35 pm Method Development TBD

2:35 pm Daija Bobe, NCITU (Waffle method)

2:50 pm Jae Yang, MCCET

3:05 pm Michael Stowell, CCET

3:20 pm Pete Dahlberg, SLAC (Correlative CLEM and cryoET)

3:35 pm Coffee Break

4:00 pm Panel discussion on CryoET Wah Chiu, SCSC

Proposed panelists: Elizabeth Villa, UCSD; Yee Li, SLAC; Grant Jensen, U Utah

5:00 pm Concluding Comments from representative from NIH TBD

6:30 pm Dinner for those remaining