

# 2020 EIC Users Group Meeting



## Report of Contributions

Contribution ID: 1

Type: **not specified**

## Welcome / Status update EICUG

*Wednesday, 15 July 2020 10:00 (25 minutes)*

**Presenter:** SURROW, Bernd (Temple University)

**Session Classification:** Plenary Session

Contribution ID: 2

Type: **not specified**

## **EIC Project update**

*Wednesday, 15 July 2020 10:25 (40 minutes)*

**Presenter:** YECK, James (University of Wisconsin-Madison and Brookhaven National Laboratory)

**Session Classification:** Plenary Session

Contribution ID: 3

Type: **not specified**

## **EIC Machine design update**

*Wednesday, 15 July 2020 11:05 (40 minutes)*

**Presenter:** WILLEKE, Ferdinand (BNL)

**Session Classification:** Plenary Session

Contribution ID: 4

Type: **not specified**

## **EIC Software update**

*Wednesday, 15 July 2020 11:45 (15 minutes)*

**Presenter:** DIEFENTHALER, Markus (Jefferson Lab)

**Session Classification:** Plenary Session

Contribution ID: 5

Type: **not specified**

## **US Funding Agency Presentations: Department of Energy**

*Wednesday, 15 July 2020 12:40 (40 minutes)*

**Presenter:** HALLMAN, Tim (DOE)

**Session Classification:** Plenary Session

Contribution ID: 6

Type: **not specified**

## **US Funding Agency Presentations: National Science Foundation**

*Wednesday, 15 July 2020 13:20 (40 minutes)*

**Presenter:** OPPER, Allena (NSF)

**Session Classification:** Plenary Session

Contribution ID: 7

Type: **not specified**

## **Countries / Community representatives: India**

*Wednesday, 15 July 2020 14:20 (30 minutes)*

**Presenter:** MOHANTY , Bedanga (National Institute of Science Education and Research)

**Session Classification:** Plenary Session

Contribution ID: 8

Type: **not specified**

## **Countries / Community representatives: Czech Republic**

*Wednesday, 15 July 2020 14:50 (30 minutes)*

**Presenter:** BIELCIK, Jaroslav (FNSPE CTU Prague)

**Session Classification:** Plenary Session

Contribution ID: 9

Type: **not specified**

## **Countries / Community representatives: Germany**

*Wednesday, 15 July 2020 15:20 (30 minutes)*

**Presenter:** SCHAFER, Andreas (Regensburg University)

**Session Classification:** Plenary Session

Contribution ID: **10**

Type: **not specified**

## **Countries / Community representatives: Poland**

*Wednesday, 15 July 2020 15:50 (30 minutes)*

**Presenter:** PRZYBYCIEN, Mariusz (AGH University of Science and Technology)

**Session Classification:** Plenary Session

Contribution ID: 11

Type: **not specified**

## **IB News**

*Thursday, 16 July 2020 10:00 (15 minutes)*

**Presenters:** BRESSAN, Andrea; AIDALA, Christine (Michigan)

**Session Classification:** Plenary Session

Contribution ID: 12

Type: **not specified**

## Expressions of Interest Q&A

*Thursday, 16 July 2020 10:15 (45 minutes)*

**Presenters:** Dr ASCHENAUER, E. C. (BNL); ENT, Rolf (Jefferson Lab)

**Session Classification:** Plenary Session

Contribution ID: 13

Type: **not specified**

## **Discussion of upcoming call for detector proposals and collaboration formation**

*Thursday, 16 July 2020 11:00 (30 minutes)*

**Presenters:** BRESSAN, Andrea; AIDALA, Christine (Michigan); ASCHENAUER, E. C. (BNL); ENT, Rolf (Jefferson Lab)

**Session Classification:** Plenary Session

Contribution ID: 14

Type: **not specified**

## Charter update discussion

*Thursday, 16 July 2020 11:30 (30 minutes)*

**Presenter:** MILNER, Richard (MIT)

**Session Classification:** Plenary Session

Contribution ID: 15

Type: **not specified**

**EOI contributed presentation: Institute for Modern  
Physics of the Chinese Academy of Sciences +  
consortium of Chinese institutions**

*Thursday, 16 July 2020 12:00 (7 minutes)*

**Presenter:** Dr ZHAO, Yuxiang (Institute of Modern Physics, Chinese Academy of Sciences)

**Session Classification:** Plenary Session

Contribution ID: 16

Type: **not specified**

## Integration, Material budget, Magnet

*Friday, 17 July 2020 10:00 (1 hour)*

- 1) Integration issues
- 2) Continue discussion on material budget
  - include detector dead areas defined by services
- 3) Configurations correlated with the magnet (bore, field, etc.) - what is really needed?
  - pro/con for different magnets

**Presenters:** KISELEV, Alexander (BNL); BROOKS, William (Universidad Técnica Federico Santa María)

**Session Classification:** Plenary Session

Contribution ID: 17

Type: **not specified**

## **Background level**

*Friday, 17 July 2020 11:00 (20 minutes)*

short presentation on where things are

**Session Classification:** Plenary Session

Contribution ID: **18**

Type: **not specified**

## Data rates (background + signal)

*Friday, 17 July 2020 11:20 (20 minutes)*

- 1) estimating the number of channels to read, the expected rate per channel, the information to read.
- 2) contribution from detectors-related noise
- 3) hit rate in the VTX layers of the tracking detectors including background.
- 4) radiation dose in the VTX layers of the tracking detectors in both TID and NIEL.
- 5) ...

**Presenters:** CELENTANO, Andrea (INFN-Genova); NEYRET, Damien (CEA Saclay IRFU/DPhN)

**Session Classification:** Plenary Session

Contribution ID: 19

Type: **not specified**

## **Path towards "full detector simulations"**

*Friday, 17 July 2020 11:40 (20 minutes)*

**Presenters:** BARISH, Kenneth (UC Riverside); JONES, Peter (University of Birmingham); DALLA TORRE, Silvia (INFN, Trieste); HORN, Tanja (Cath)

**Session Classification:** Plenary Session

Contribution ID: 20

Type: **not specified**

## **Detector matrix review and moving the needle forward**

*Friday, 17 July 2020 12:00 (20 minutes)*

**Presenters:** BARISH, Kenneth (UC Riverside); JONES, Peter (University of Birmingham); DALLA TORRE, Silvia (INFN, Trieste); HORN, Tanja (Cath)

**Session Classification:** Plenary Session

Contribution ID: 21

Type: **not specified**

## **Path towards complementarity**

*Friday, 17 July 2020 12:20 (30 minutes)*

**Presenters:** ASCHENAUER, E. C. (BNL); NEWMAN, Paul (University of Birmingham, UK)

**Session Classification:** Plenary Session

Contribution ID: 22

Type: **not specified**

## **Additional topics**

*Friday, 17 July 2020 12:50 (10 minutes)*

**Session Classification:** Plenary Session

Contribution ID: 23

Type: **not specified**

## **Inclusive reactions WG**

*Thursday, 16 July 2020 14:00 (20 minutes)*

**Presenters:** SCHMOOKLER, Barak (Stony Brook University); FATEMI, Renee (University of Kentucky); SATO, nobuo (Jefferson Lab)

**Session Classification:** Plenary Session

Contribution ID: 24

Type: **not specified**

## Semi-inclusive Reactions WG

*Thursday, 16 July 2020 14:35 (20 minutes)*

**Presenters:** VOSSSEN, Anselm (Duke University); XIAO, Bowen (Central China Normal University); STEVENS, Justin (William & Mary); SEIDL, Ralf (RIKEN); ALEXEY, Vladimirov (Regensburg University)

**Session Classification:** Plenary Session

Contribution ID: 25

Type: **not specified**

## **Jets, Heavy Quarks WG**

*Thursday, 16 July 2020 15:10 (20 minutes)*

**Presenters:** PAGE, Brian (Brookhaven National Laboratory); SICHTERMANN, Ernst (Lawrence Berkeley National Laboratory); PETRIELLO, Frank (Northwestern University); VITEV, Ivan (LANL); CUN-QUEIRO, Leticia (ORNL)

**Session Classification:** Plenary Session

Contribution ID: 26

Type: **not specified**

## Exclusive Reactions WG

*Thursday, 16 July 2020 15:45 (20 minutes)*

**Presenters:** PASQUINI, Barbara (University of Pavia and INFN, Pavia); SOKHAN, Daria; DUPRE, Raphael (IPN Orsay); FAZIO, Salvatore (Brookhaven National Laboratory); LAPPI, Tuomas (University of Jyvaskyla)

**Session Classification:** Plenary Session

Contribution ID: 27

Type: **not specified**

## Diffractive Reactions & Tagging WG

*Thursday, 16 July 2020 16:20 (20 minutes)*

**Presenters:** STASTO, Anna (Penn State University); HIGINBOTHAM, Douglas (Jefferson Lab); HEN, Or (MIT); KLEIN, Spencer (LBNL); COSYN, Wim (Ghent University)

**Session Classification:** Plenary Session

Contribution ID: 28

Type: **Oral**

## **Countries / Community representatives: Canada**

*Wednesday, 15 July 2020 16:20 (30 minutes)*

**Presenter:** DECONINCK, Wouter

**Session Classification:** Plenary Session

Contribution ID: 29

Type: **not specified**

## **EOI contributed presentation: CEA Saclay**

*Thursday, 16 July 2020 12:07 (7 minutes)*

**Presenter:** BOSSU, Francesco (CEA-Saclay)

**Session Classification:** Plenary Session

Contribution ID: **30**

Type: **not specified**

## **EOI contributed presentation: INFN**

*Thursday, 16 July 2020 12:14 (7 minutes)*

**Presenter:** DALLA TORRE, Silvia (INFN, Trieste)

**Session Classification:** Plenary Session

Contribution ID: 31

Type: **not specified**

## **EOI contributed presentation: AGH U. of Science and Technology, IFJ PAN, and Temple –Forward detectors in the electron hemisphere**

*Thursday, 16 July 2020 12:21 (7 minutes)*

**Presenters:** SURROW, Bernd (Temple University); CHWASTOWSKI, Janusz (INP PAS, Cracow); PIOTRZKOWSKI, Krzysztof (UCLouvain & AGH UST); PRZYBYCIEN, Mariusz (AGH University of Science and Technology)

**Session Classification:** Plenary Session

Contribution ID: 32

Type: **not specified**

## **EOI contributed presentation: Consortium to construct the Electron Endcap Electromagnetic Calorimeter (crystal/glass) - CUA, MIT, IPN Orsay, Kentucky, Lehigh, Alikhanian National Laboratory**

*Thursday, 16 July 2020 12:28 (7 minutes)*

**Presenters:** APRAHAMIAN, Ani (AANL); MUNOZ CAMACHO, Carlos (IJCLab, CNRS/IN2P3); FANELLI, Cristiano (MIT); HASELL, Douglas (MIT); MKRTCHYAN, Hamlet (A. Alikhanyan National Science Laboratory); PEGG, Ian (CUA); FATEMI, Renee (University of Kentucky); MILNER, Richard (MIT); REED, Rosi (Lehigh University); HORN, Tanja (Cath)

**Session Classification:** Plenary Session

Contribution ID: 33

Type: **not specified**

## **EOI contributed presentation: Los Alamos National Lab**

*Thursday, 16 July 2020 12:35 (7 minutes)*

**Presenter:** VITEV, Ivan (LANL)

**Session Classification:** Plenary Session

Contribution ID: 34

Type: **not specified**

## **EOI contributed presentation: University of California EIC Consortium**

*Thursday, 16 July 2020 12:42 (7 minutes)*

**Presenter:** ARRATIA, Miguel (University of California, Riverside)

**Session Classification:** Plenary Session

Contribution ID: 35

Type: **not specified**

## **EOI contributed presentation: Stony Brook University**

*Thursday, 16 July 2020 12:49 (5 minutes)*

**Presenter:** DEHMELT, Klaus (Stony Brook University)

**Session Classification:** Plenary Session

Contribution ID: **36**

Type: **not specified**

## **EOI contributed presentation: Argonne National Lab**

*Thursday, 16 July 2020 12:54 (5 minutes)*

**Presenter:** JOOSTEN, Sylvester (Argonne National Laboratory)

**Session Classification:** Plenary Session