EICUG Steering Committee Report to the IB

Renee Fatemi for the EICUG SC

July 28, 2022

EIC Users Group

1348 Members

- 831 experimentalists
- 344 theorists
- 159 accelerator scientists
- 8 computer scientists
- 4 support
- 2 other

266 institutions

36 countries

Steering Committee Members

Chair: Renee Fatemi, *University of Kentucky, USA*
Vice-Chair: Marco Radici, *INFN-Pavia, Italy*

At Large members:

Yuri Kovchegov, *Ohio State University, USA*
Silvia Dalla Torre, *INFN, Italy*
Tanja Horn, *The Catholic University of America, USA*

IB Representative:

Olga Evdokimov, *University of Illinois Chicago, USA*

European Representative:

Daria Sokhan, *Saclay, France / Univ. Glasgow, UK*

International Representative:

Asmita Mukherjee, *Indian Institute of Technology Bombay, Mumbai, India*

Lab Representatives:

Thomas Ullrich, *Brookhaven National Laboratory, USA*
Rolf Ent, *Thomas Jefferson National Accelerator Facility, USA*

Working Groups

SOFTWARE / AI – ***Updated*** • Andrea Bressan, Unviersity of Trieste/INFN • Markus Diefenthaler, Jefferson Lab • *Cristinao Fanelli, Massachusetts Institute of Technology* • *Tanja Horn, Catholic University of America* • Torre Wenaus, Brookhaven National Lab	Tasked to work on all aspects of EIC software Specifically: • Develop and maintain software tools for physics and detector simulations and reconstruction • Data and analysis preservation • Entry point to AI driven applications and algorithms
COMPUTING COORDINATION - ***Updated*** • **Graham Heyes**, Jefferson Lab co-chair • **Jerome Lauret**, Brookhaven National Lab co-chair • *Andrea Bressan → Software/AI WG delegate* • *Wouter Deconinck → detector 1 Simulation/Production/QA delegate* • *Cristiano Fanelli → Software/AI WG delegate* • *David Lawrence → Detector I Computing/Software delegate*	Tasked with coordination of EIC Computing efforts. Specifically: • Compliance with DOE and host lab requirements • Record of required/available resources and resource usage • Providing an access point for external resources • Infrastructure assessment to fold in international computing resources • Developing in-common data flow and management for EPIC and detector II.

Working Groups

THEORY - ***New***

- Wim Cosyn, Florida International University
- Anna Stasto, Pennsylvania State University
- Alessandro Bacchetta, University of Pavia/ INFN
- Felix Ringer, Stony Brook University

IB Driven initiative to maintain high level of theoretical engagement with EIC effort.

- Theoretical resource for experimental physics efforts
- Contact point for theorists looking to engage an EIC program.

DETECTOR II / IR8 - ***New***

- Sangbaek Lee, *ANL/MIT*
- Simonetta Liuti, *University of Virginia*
- Pawel Nadel-Turonski, *Stony Brook University*
- Thomas Ullrich *BNL/Yale*
- Anselm Vossen, *Duke*
- Walter Wittmer, *JLAB*

Facilitate the development of a unified concept for a general-purpose detector at IR8.

- Develop a portfolio of measurements that are complementary to the project detector physics program
- Establish a diverse and vibrant 2nd Detector WG
- Utilize extended design period for Detector II to identify groups that will focus on R&D for emerging technologies

Polarimetry Working Group
Moved out of EICUG to Project

IR/Luminosity Working Group ***Retired***

Committees

Charter Committee

Phase 2/3: January 2020 - current

- John Arrington (LBL, USA)
- Will Brooks (USM Valparaiso, Chile)
- Olga Evdokimov (Univ. of Illinois, Chicago, USA)
- Yuji Goto (RIKEN, Japan)
- Barbara Jacak (LBNL & Univ. California at Berkeley, USA)
- Richard Milner (MIT, USA) (Co-chair)
- Marco Radici (INFN Pavia, Italy)
- Franck Sabatié (Saclay, France) (Co-chair)
- Sevil Salur (Univ. Rutgers, USA)
- Daria Sokhan (Univ. Glasgow, UK)

Conference and Talks Committee

- Chair: Michela Chiosso (Univ. and INFN Torino, Italy)
- Vice-Chair: Alexey Prokudin (PSU Berks, USA)
- Members: term September 2021 - August 2022
  - Svetlana Barkanova (Memorial University of Newfoundland, Canada)
  - Megan Elizabeth Connors (GSU, USA)
  - Qinghua Xu (Shandong Univ., China)

Elections and Nominating Committee

Term: September 2021 - August 2022

- Chair: Douglas Higinbotham (JLab, USA)
- Vice-Chair: not yet available
- Members
  - Adrian Dumitru (CUNY, USA)
  - Bedangadas Mohanty (NISER, India)
  - Cristina Tuvè (Univ. and INFN - Catania, Italy)
  - Charlotte Van Hulse (IPN-Orsay, France)

Diversity and Inclusion Committee

- Chair: Taya Chetry (Mississippi State University, USA) ← New chair
- Members
  - Paul Gueye (Michigan State University, USA)
  - Narbe Kalantarians (Virginia Union University, USA)
  - Asmita Mukherjee (Indian Institute of Technology Bombay, India)
  - Sanghwa Park (Stony Brook University, USA)
  - Rosi Reed (Lehigh University, USA) ← New members
  - Cheuk-Ping Wong (Los Alamos National Laboratory, USA) ← New members

Thank you for your service to the EICUG!

Additional EICUG SC Activities:

Post DPAP review / pre-closeout meeting

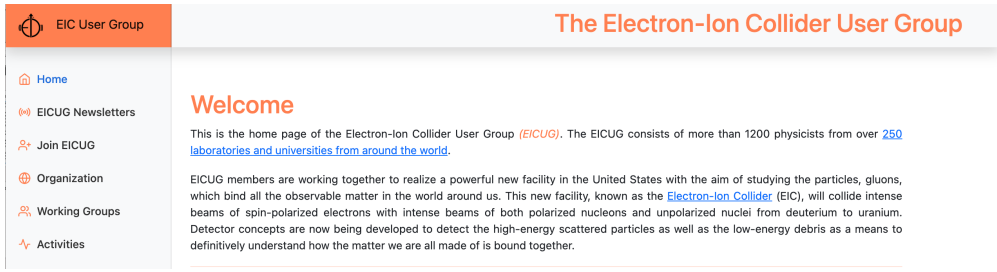
- Project, proposal leadership and SC meet weekly for a month before DPAP close-out
- Provide neutral ground to start interactions between leaders of proposals.
- Discussions focused around how to keep the EICUG unified after close out.

EICUG Fly-in Day on the Hill

- Virtual meetings held on April 25-26th
- Strong turnout from community - more than 50 people total.
- Virtual format didn't work. Meetings were "conference calls" and much shorter than traditional meetings. We need to push for in-person next year.

New Website

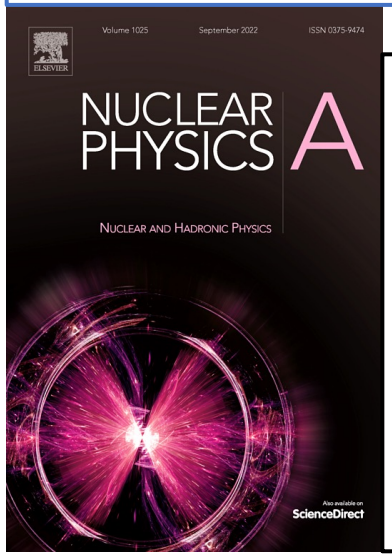
- Task force led by Thomas Ullrich and Maxim Potekhin. Reps from various parts of EICUG - Markus Diefenthaler, Tanja Horn, Yuri Kovchegov, Alexey Prokudin, and Marco Radici contributed.
- Thank you to Wouter and Vladi for agreeing to be webmasters.



Publications

The Electron-Ion Collider – The Benefits of Two Detectors

- Task force led by Rolf Ent with contributions from myself, Olga Evdokimov, Marco Radici and Daria Sokhan.
- Thank you to JLAB graphics department for producing final glossy.
- PDF version sent to IB reps and hard copy to point person at all international funding agencies.



Yellow Report

- Scheduled to be published in issue/vol 1026 of Nuclear Physics A
- Manuscript will be compiled on July 27th and proofs will follow within a few days.

Onward! Priorities for the upcoming year.

- Support the EPIC Collaboration and Detector II/IR8 working group.
- Organize the EICUG involvement in the upcoming Long Range Planning Exercise.
  - EIC integration into the QCD town hall meetings
  - Facilitate discussion and writing of EIC white paper
- Increase engagement with congressional representatives and restore nuclear advocacy day to previous levels of interaction.
- Build up the user's group and increase international involvement in EPIC and Detector II effort.