




# Report from first RRB Meeting

**Electron-Ion Collider Resource Review Board (RRB) Meeting**

 Apr 3, 2023, 8:00 AM → Apr 4, 2023, 5:00 PM US/Eastern



# Participants

## **Hosts:**

Haiyan Gao, Co-Chair, Associate Laboratory Director, Nuclear and Particle Physics, BNL  
David Dean, Deputy Director for Science, TJNAF  
Diego Bettoni, Co-Chair, Vice President, INFN  
Abhay Deshpande, EIC Science Director, BNL/SBU  
Jim Yeck, EIC Project Director, Associate Laboratory Director, BNL

## **EIC RRB Members:**

Diego Bettoni, Co-Chair, Vice President, INFN  
Grahme Blaire, STFC, United Kingdom  
Marcella Grasso, IN2P3/CNRS, France  
Tim Hallman, Associate Director of the Office of Science for Nuclear Physics, DOE  
Jenny Hiscock, STFC, United Kingdom (Remote)  
Arnaud Lucotte, IN2P3/CNRS, France  
Yong Kun Moon, Ministry of Science and ICT, South Korea  
Franck Sabatie, CEA Saclay, France  
Claire Samson, Canada Foundation for Innovation, Canada  
Marek Vyšinka, Ministry of Education, Youth and Sports, Czech Republic



# Participants

## **EIC RRB Observers:**

Pietro Antonioli, INFN Bologna, Italy

Jaroslav Bielčík, Czech Technical University, Prague, Czech Republic

Carlos Munoz Camacho, IJCLab, France

Yuji Goto, RIKEN, Japan

Taku Gunji, Center for Nuclear Study, University of Tokyo, Japan

Garth Huber, University of Regina, Canada

Pete Jones, iThemba Labs, South Africa

Peter Jones, University of Birmingham, United Kingdom

Oumar Ka, Cheikh Anta Diop University, Senegal (Remote)

Ana Amelia Machado, UNICAMP, Brazil (Remote)

Bedanga Mohanty, NISER, India (Remote)

Clifford Nxomani, National Research Foundation, South Africa

Rosario Nania, INFN, Italy

Yongseok Oh, Kyungpook National University, South Korea

Yi Yang, National Cheng Kung University, Taiwan

# Participants



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## **EIC Project, BNL & TJNAF Participants :**

Luisella Lari, EIC Project Manager, BNL

Maria Chamizo Llatas, EIC In-Kind Manager, and Deputy Associate Lab Director/NPP, BNL

Allison Lung, Deputy Project Director for TJNAF Partnership, TJNAF

Elke Aschenauer, Co-Associate Director for the Experimental Program

Rolf Ent, Co-Associate Director for the Experimental Program

## **U.S. Department of Energy Participants :**

Corey Cohn, DOE Office of Science

Michael Famiano, DOE Office of Science for Nuclear Physics

Paul Mantica, DOE Office of Science for Nuclear Physics



# Participants

## **Other Attendants:**

Jack Anderson (BNL, Deputy Director for Operations)  
Silvia Dalla Torre (INFN Trieste, ePIC deputy spokesperson, presenter)  
Markus Diefenthaler (TJNAF, presenter)  
Stuart Henderson (TJNAF, presenter)  
Ed Kinney (University of Colorado at Boulder, presenter)  
John Lajoie (Iowa State, ePIC spokesperson)  
Maria Zurek (ANL, presenter)  
Kyungseon Joo (Univ. of Connecticut)  
Amber Boehnlein (JLab)  
Eric Lancon (BNL)

# RRB Mandate and Draft Charter



- Abhay Deshpande (EIC Science Director, Stuart Henderson (TJNAF Director), Jack Anderson (BNL Deputy Director for Operations), and Haiyan Gao (RRB Co-Chair) welcomed the participants and thanked them for attending the first EIC RRB Meeting.
- Co-Chair, Haiyan Gao, presented the EIC RRB Board mandate and draft charter.
- Haiyan Gao and David Dean will alternate as the US Co-Chair for the RRB with Haiyan starting first.
- Diego Bettoni from INFN will serve as the international Co-Chair.
- Feedback from the participants on the charter was incorporated into a final draft for RRB member approval.

# EIC Project Status and Progress



- EIC Project Director, Jim Yeck, presented an update on the EIC project plan.
- The EIC is a DOE project and fully international in character.
- The Project is currently working towards Critical Decision (CD/3A) Long Lead Procurement planned for January 2024. This was made feasible by the Inflation Reduction Act funding of \$138M provided in September 2022.
- EIC remains on a technically driven schedule. The plan is to achieve CD2/3 in April 2025 before RHIC concludes operations in June 2025.
- Significant RHIC Operations funding will be redirected to EIC construction starting in FY2025 and reaching ~\$150M/year in FY2026.
- There is strong support from DOE for this plan.

# Experiment and Detector



- ePIC Collaboration Status and Plans for New Members- Silvia Dalla Torre (ePIC Deputy Spokesperson)
- EIC Project Detector Overview- Elke Aschenauer (Co-Associate Director for the Experimental Program) – this talk integrated the ePIC technical coordination and resource coordination.
- Detector Advisory Committee Report- Edward Kinney (DAC Chair)
- ePIC Computing Plan- Markus Diefenthaler (ePIC Computing Coordinator)



# Roundtable Discussion (Funding Agencies)



## Members

- Canada
- Czech Republic
- France
- India
- Italy
- South Korea
- United Kingdom
- United States

## Observers

- Brazil
- Japan
- Senegal
- South Africa
- Taiwan



# Decisions

- The final version of the RRB charter was unanimously approved by all voting members following another round of discussion in the afternoon.
- The RRB will meet nominally every 6 months.
- Next meeting: December 7-8, 2023 in Washington, DC
- April 2024 meeting tentatively planned to take place in Europe

Topics for the next meeting will include:

- Common Funds
- Computing
- Set up various agreements
- Governance: US CD processes; Change Control Management; Scope changes
- Quality assurance (In-kind)



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# RRB Charter



# Purpose

The purpose of the Electron-Ion Collider Resources Review Board (EIC-RRB) is to provide coordination among the different funding partners during both the detector development and construction phase of the project and during the operations of the experiments that follow. In its early years, the RRB will focus on the construction, commissioning, and initial operations. The RRB shall provide oversight of resources utilized for detector construction and planning, which is the ePIC detector in the EIC project scope. The RRB will function as the body that reaches agreement on scope entailed in common projects, as appropriate, which shall be funded by members of the RRB. The RRB will be responsible for annually agreeing on and endorsing ePIC detector commitments from the members. The RRB will monitor progress toward overall ePIC detector funding and construction. At the appropriate time, the RRB will include in its purview common computing needs of the EIC detector(s).

The RRB Charter should be reviewed and updated as the EIC moves from construction towards operations, and as the needs of the program evolve.



# Membership

BNL and TJNAF, as the co-hosts for the EIC Experimental Program, will invite funding agencies to appoint delegates to serve as members of the RRB during the construction phase of the project. The EIC Project Director shall be ex officio on the RRB.

The RRB shall consist of one representative from each funding agency that supports institutions who collaborate on the EIC detector(s) including software and computing (e.g., in-kind and/or workforce). In this initial phase, flexibility will be applied to membership on the RRB, with likely contributors to the detectors and experiments being candidates for initial membership.

RRB members may delegate participation for a given meeting. Members may also designate one Principal Investigator as an observer at each RRB meeting.

The BNL Associate Laboratory Director (ALD) for Nuclear and Particle Physics and the TJNAF Deputy Director for Science will serve as standing members of the RRB.

# Co-Chairs



The Co-Chairs shall convene meetings, set meeting agendas, and determine objectives for the RRB. The Co-Chairs shall report to the EIC Project Director on the activities and recommendations of the RRB and keep the EIC Advisory Board informed.

The US Co-Chair shall serve two-year terms, and shall rotate between the BNL ALD for Nuclear and Particle Physics and the TJNAF Deputy Director for Science.

There will also be one Co-Chair from a non-DOE funding agency. International partner agencies shall decide on their election/rotational scheme for the international Co-Chair. A chair-line will be established for the international funding agencies (consisting of a Co-Chair and a Co-Chair Elect). The first international Co-Chair will assume the role by the invitation of BNL and TJNAF as co-hosts for the EIC Experimental Program.



# Meetings

The RRB will meet twice per year; at least one of these meetings will be in person and will be held in Washington, DC, or a location near BNL or TJNAF during initial phases of the project. The meetings will consist of open sessions and executive (member-only) sessions. Special meetings of the RRB may be called as needed.

Meetings will provide an opportunity for members to conduct the business of the RRB, as described in the Purpose above. Minutes of these meetings will be distributed to the EIC Project and to the EIC Advisory Board. The EIC project staff at BNL and/or TJNAF provides administrative support to the RRB Co-Chairs and meetings.

The Chair of the EIC Advisory Board will be invited to the RRB meetings.

# Charter Approval and Amendments



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The Charter will be established at the initial meeting of the EIC-RRB. A supermajority (2/3) of RRB members will approve the Charter and amendments.



CHARLES B. WANG CENTER

Welcome to the  
Electron-Ion Collider  
Resource Review Board  
Meeting  
April 3-4, 2023

