



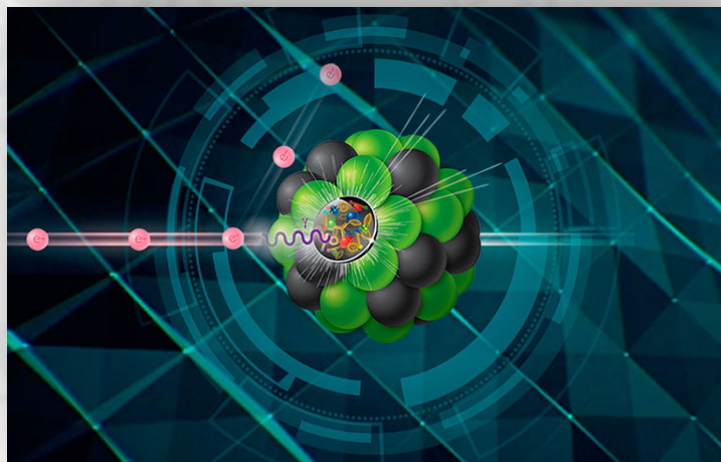
Welcome

EICUG Summer 2021 Meeting

Bernd Surrow and Richard Milner

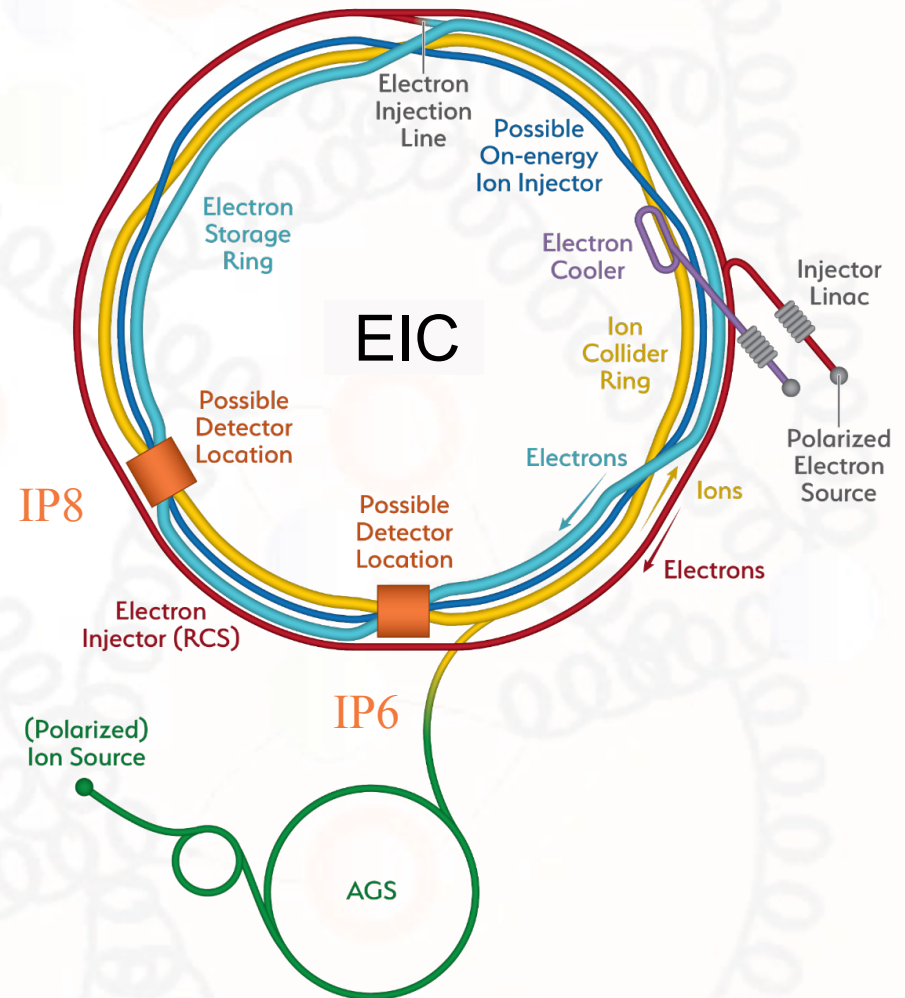


On behalf of the EICUG Steering Committee



Outline

- Welcome
- Orientation / Agenda Overview
- EICUG updates
 - Status
 - Committees
 - Charter
- Summary





Welcome

- ❑ Welcome to the [EICUG meeting 2021](#) on behalf of the EIC Users' group Steering Committee
- ❑ Last week we had the first EICUG Early Career Workshop: <https://indico.jlab.org/event/438/> Thank you!
- ❑ We have experienced an unprecedented time with the COVID-19 pandemic. We hope that you are all healthy incl. your family and friends!
- ❑ Special Thanks to [Narbe Kalantarians](#) (Virginia Union University) and [Miguel Arratia](#) (UC Riverside) for helping with various practical details such as ZOOM!
- ❑ Special welcome / thanks to funding agency and country representatives:
 - [Allena Opper](#): NSF NP Perspective on a Future Electron Ion Collider
 - [Tim Hallman](#): DOE NP Perspective on a Future Electron Ion Collider
 - [Marek Lewitowicz](#): NUPECC Perspective on a Future Electron Ion Collider



Orientation / Agenda

□ Monday: EICUG Summer Meeting

10:00	EICUG Welcome Address	<i>Bernd Surrow et al.</i>
		10:00 - 10:20
	EIC project status updates	<i>James Yeck</i>
		10:20 - 11:05
11:00	Statement from lab management - Detector proposal review process	<i>Bob McKeown et al.</i>
		11:05 - 11:15
	High-level physics presentation (Mass)	<i>Jianwei Qiu</i>
		11:15 - 11:45
	High-level physics presentation (Spin)	<i>Alexei Prokudin</i>
12:00		11:45 - 12:15
	High-level physics presentation (high-density gluons)	<i>Larry McLerran</i>
		12:15 - 12:45
	Break	
13:00		12:45 - 13:20
	NSF perspective	<i>Allena Opper</i>
		13:20 - 13:50
	DOE perspective	<i>Timothy Hallman</i>
14:00		13:50 - 14:20
	NUPECC perspective	<i>Marek Lewitowicz</i>
		14:20 - 14:50



Orientation / Agenda

□ Tuesday: EICUG Summer Meeting

10:00	Announcement of Election Results	<i>Douglas Higinbotham et al.</i>	10:00 - 10:30
	EIC accelerator design overview / updates	<i>Ferdinand Willeke</i>	10:30 - 11:15
11:00	IR design overview IP6	<i>Holger Witte</i>	11:15 - 11:45
	IR design overview IP8	<i>Randika Gamage</i>	11:45 - 12:15
12:00	Break		12:15 - 13:00
13:00	ATHENA: Proposal Overview	<i>Silvia Dalla Torre</i>	13:00 - 13:30
	CORE: Proposal Overview	<i>Pawel Nadel-Turonski</i>	13:30 - 14:00
14:00	ECCE: Proposal Overview	<i>Or Hen</i>	14:00 - 14:30
	2nd IR Workshop Series Status / Updates	<i>Latifa Elouadrhiri</i>	14:30 - 15:00
15:00	Discussion		15:00 - 15:30



Orientation / Agenda

□ Wednesday: EICUG Summer Meeting

Calorimetry

Tracking

PID

Backward/Forward

Computing/Electronics

10:00	ATHENA Calorimetry	Vladimir V. Berdnikov
		10:00 - 10:15
	CORE Calorimetry	William Jacobs
		10:15 - 10:30
	ECCE Calorimetry	Friederike Bock
		10:30 - 10:45
	Calorimetry Q&A	
		10:45 - 11:00
11:00	ATHENA Tracking	Laura Gonella
		11:00 - 11:15
	CORE Tracking	
		11:15 - 11:30
	ECCE Tracking	Xuan Li
		11:30 - 11:45
	Tracking Q&A	
		11:45 - 12:00
12:00	ATHENA PID	Thomas Hemmick
		12:00 - 12:15
	CORE PID	Grzegorz Kalicy
		12:15 - 12:30
	ECCE PID	Xiaochun He
		12:30 - 12:45
	PI Q&A	
		12:45 - 13:00
13:00	Break	
		13:00 - 13:45
	ATHENA Backward/Forward	Alexander Jentsch
		13:45 - 14:00
14:00	CORE Backward/Forward	Charles Hyde
		14:00 - 14:15
	ECCE Backward/Forward	Igor Korover
		14:15 - 14:30
	Backward/Forward Q&A	
		14:30 - 14:45
	ATHENA Computing/Electronics	Jeff Landgraf
		14:45 - 15:00
15:00	CORE Computing/Electronics	Gary Varner
		15:00 - 15:15
	ECCE: Computing/Electronics	Cameron Dean
		15:15 - 15:30
	Computing/Electronics Q&A	
		15:30 - 15:45



Orientation / Agenda

□ Thursday: EICUG Summer Meeting

Computing

10:00	Introduction to the ECGG	10:00 - 10:25
	DAQ activities (flash)	Jan Bernauer 10:25 - 10:30
	Distributed DAQ system (ERSAP)	Vardan Gyurjyan 10:30 - 10:50
11:00	AI-enabled Physics Trigger System	Dantong Yu 10:50 - 11:10
	AI/ML and Detector co-design	Cristiano Fanelli 11:10 - 11:30

Software

	Software Working Group Overview	Andrea Bressan et al. 11:30 - 11:35
	ATHENA Software Overview	Sylvester Joosten 11:35 - 11:50
12:00	ECCE Software Overview	Joe Osborn 11:50 - 12:05
	Status of Validation	12:05 - 12:20
	Project eAST Overview	Wouter Deconinck 12:20 - 12:35
	Software Working Group Update	Markus Diefenthaler 12:35 - 12:45
	Discussion	12:45 - 13:00

Polarimetry

13:00	Break	13:00 - 13:45
	Polarimetry Overview	E. C. Aschenauer 13:45 - 14:00
14:00	Hadron Polarimetry Simulations	Ana Sofia Nunes et al. 14:00 - 14:20
	Hadron Polarimetry - RHIC tests	William Schmidke 14:20 - 14:40
	Compton Polarimetry	Ciprian Gal 14:40 - 15:00
15:00	RCS Polarimetry	Dave Gaskell 15:00 - 15:15



Orientation / Agenda

□ Friday: EICUG Summer Meeting

Physics

10:00	Connecting observables with pdf-type quantities related to spin and OAM	<i>E. C. Aschenauer</i>
		10:00 - 10:25
	Proton spin at small x	<i>Daniel Pitonyak</i>
		10:25 - 10:50
11:00	Connecting observables with different terms contributing to the proton mass	<i>Yoshitaka Hatta</i>
		10:50 - 11:15
	TMD extraction from data	<i>Alexey Vladimirov</i>
		11:15 - 11:40
	Progress in calculating Quasi-PDFs, GPDs, and TMDs on the lattice	<i>Yong Zhao</i>
		11:40 - 12:05
12:00	Connecting observables with high-density / saturation phenomena	<i>Bowen Xiao</i>
		12:05 - 12:30
	Discussion	
		12:30 - 13:00
13:00	Break	
		13:00 - 13:45
14:00	DE&I Survey results	<i>Wouter Deconinck</i>
		13:45 - 14:15
	Successfully engaging MSIs in Nuclear Physics	<i>Paul Gueye</i>
		14:15 - 14:45
15:00	Summary of Early Career Scientist day	<i>Jennifer Rittenhouse West</i>
		14:45 - 15:15
	EICUG - Next steps	
		15:15 - 15:45



Orientation / Agenda

□ Saturday: IB Meeting

10:00	Welcome	<i>Andrea Bressan et al.</i> 10:00 - 10:15
	Report/Remarks by outgoing EICUG Chair	<i>Bernd Surrow</i> 10:15 - 10:30
	Welcome/Remarks by incoming EICUG Chair	10:30 - 10:45
	IB News	<i>Andrea Bressan et al.</i> 10:45 - 11:00
11:00	Next EICUG meeting planing	<i>Barbara Badelek et al.</i> 11:00 - 11:15
	Institutional Presentations/Open discussion	<i>Andrea Bressan et al.</i> 11:15 - 12:00
12:00		



Orientation / Agenda

□ Remark

We can and should always strive to do the best possible job in creating a gender-balanced agenda.

Overlapping vacation schedules have unfortunately caused several speakers not able to attend our remote meeting.

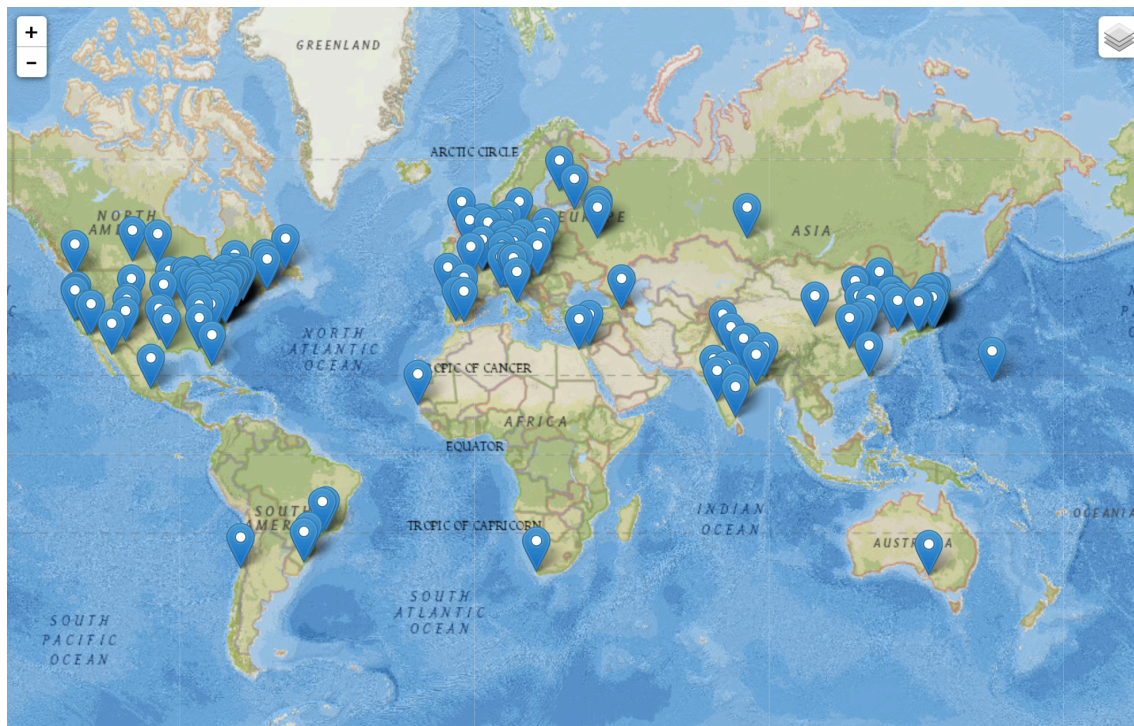
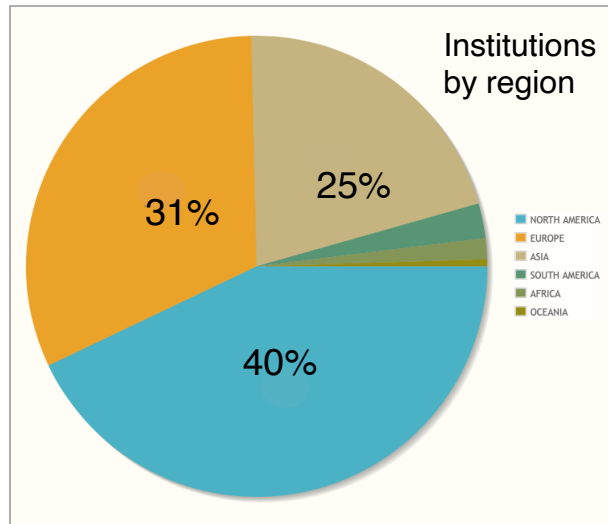


EICUG Updates

Size and demographics

- EICUG organization established in summer 2016
- In numbers....: **1296 members** (Experimental scientists: 796 / Theory scientists: 326 / Accelerator scientists: 161 / Computer Scientists: 7 / Support: 4 / Other: 2), 262 institutions, 35 countries, 6 world regions

World map:





EICUG Updates: Organization / Terms

□ Institutional Board:

- **Chair:** Olga Evdokimov (University of Illinois Chicago, USA), term January 2021 - December 2022
- **Vice Chair:** Andrea Bressan (INFN Trieste), term January 2021 - December 2022

Appointments
ending in
summer 2021!

□ Steering Committee Members:

- **Chair:** Bernd Surrow (Temple University, USA), term September 2019 - August 2021
- **Vice Chair:** Richard Milner (MIT, USA), term September 2019 - August 2021
- **At Large Members:**

- Silvia Dalla Torre (INFN - Trieste, Italy), term January 2021 - December 2022
- Barbara Jacak (LBL and UCB, USA), term January 2020 - December 2021
- Yuri Kovchegov (OSU, USA), term January 2021 - December 2022

○ European Representative:

- Daniel Boer (University Groningen, NL), term September 2019 - August 2021

○ International Representative:

- Wouter Deconinck (University of Manitoba, Canada), term January 2020 - December 2021

○ Lab Representatives:

- Rolf Ent (Thomas Jefferson National Accelerator Facility, USA)
- Thomas Ullrich (Brookhaven National Laboratory, USA)

Elections &
Nominations
Committee will
announce results
on Day 2!

<http://eicug.org/web/content/electron-ion-collider-users-group-eicug>



EICUG Updates: E&N Committee

□ Election & Nomination Committee

○ New Nomination & Election Committee:

- Abhay Deshpande (SBU/BNL) (2nd term until 08/31/2021)
- Yuri Kovchegov (OSU) (2nd term until 08/31/2021)
- Marta Ruspa (INFN Torino) (Chair) (2nd term until 08/31/2021)
- Douglas Higinbotham (JLab) (Vice Chair) (1st term until 08/31/2021)
- Charlotte Van Hulse (IPN-Orsay) (1st term until 08/31/2021)

○ We want to express our sincere thanks to the above EICUG members for serving on this committee.

○ At least **three new appointments** starting in summer 2021 - handled by new EICUG chair!



EICUG Updates: Talks committee

□ Conference & Talks Committee

○ New Conference & Talks Committee:

- Sevil Salur (Rutgers) (2nd term until 08/31/2021)
- Dmitry Romanov (JLab) (2nd term until 08/31/2021)
- Michela Chiosso (INFN Torino) (1st term until 08/31/2021)
- Svetlana Barkanova (Memorial Uni. of Newfoundland) (1st term until 08/31/2021)
- Alexey Prokudin (PSU Berks) (1st term until 08/31/2021)

- We want to express our sincere thanks to the above EICUG members for serving on this committee.
- At least **two new appointments** starting in summer 2021 - handled by new EICUG chair!!



Working groups / Coordination groups

- Several dedicated working / coordination groups have been formed beyond ongoing detector proposal efforts to serve the wider EIC community:
 - **Software Working Group**: Andreas Bressan (INFN Trieste), Markus Diefenthaler (JLab), and Torre Wenaus (BNL)
 - **Computing Coordination Group (CCG)**: Jerome Lauret (BNL) and Graham Heyes (JLab)
 - **Polarimetry Working Group**: Elke Aschenauer (BNL) and Dave Gaskell (JLab)
- Vision for two additional working groups providing a platform for EIC community-wide discussions: (1) **Physics, in particular Theory** and (2) **Detector R&D**



Charter Update

- ❑ In accordance with instructions laid out in the **current Charter**, an ad hoc committee was established in February 23, 2020 to **review the EICUG Charter**:

John Arrington, Will Brooks, Olga Evdokimov, Yuji Goto, Barbara Jacak, Richard Milner (Chair), Marco Radici, Franck Sabatie, Sevil Salur, Daria Sokhan
- ❑ Conducted a **survey of EICUG membership in August 2020**
- ❑ **Main Conclusions**:
 - Membership broadly satisfied with functioning of EICUG
 - No consensus on changing conditions for membership at this time
 - Clear wish that EICUG act to enhance diversity and inclusion
- ❑ Subsequently, the **EICUG Steering Committee has formed an ad hoc committee on Diversity and Inclusion**:
Taya Chetry (Mississippi State U.), Wouter Deconinck (U. of Manitoba) (Chair), Paul Gueye (Michigan State U.), Narbe Kalantarians (Virginia Union U.), Astrid Morreale (Los Alamos National Lab), Sanghwa Park (Stony Brook U.)
- ❑ The D&I Committee will present results on recent survey on Friday, August 6!



Summary and Outlook

- A lot of activities since the last EICUG summer meeting:
 - Completion and release of Yellow Report - Major EICUG initiative in 2020!
<https://arxiv.org/abs/2103.05419> / Publication of YR planned!
 - Open Call for Detector Proposals: <https://www.bnl.gov/eic/CFC.php>
 - Award of CD1: <https://www.bnl.gov/newsroom/news.php?a=118765>
 - Formation of three dedicated proposal efforts: ATHENA / CORE / ECCE
 - 2nd IR Workshop Series
 - Discussion session / Detector systems at EIC: Tuesday, August 3, 03:00PM (EDT)
- We have prepared an exciting program for this week. We are looking forward to your active participation!
- We are grateful to presentations by the funding agency and community representatives!