



Summary / Outlook

EIC Users Meeting 2019

Paris

Bernd Sorrow



On behalf of the EIC UG Steering Committee

EICUG
Electron-Ion Collider User Group Meeting

The world's most powerful microscope for studying the "glue" that binds the building blocks of visible matter

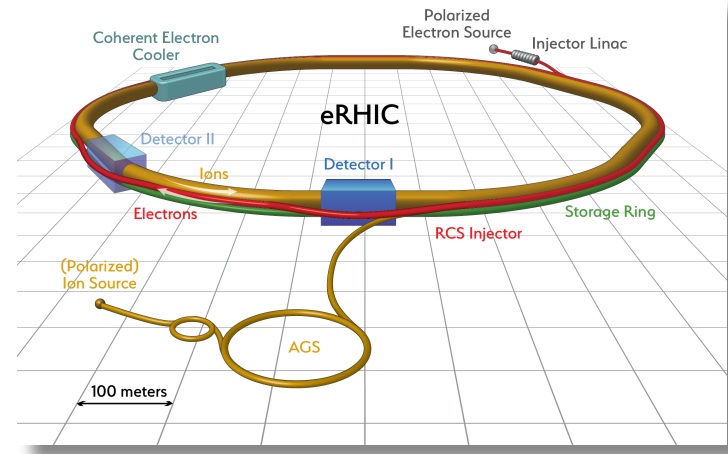
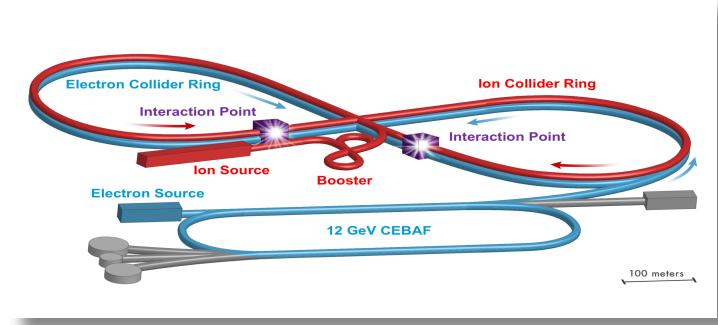
2019 JULY 22-26
PARIS
École Nationale Supérieure de Chimie

cea Irfu CNRS
université PARIS-SACLAY UNIVERSITÉ PARIS SUD



Outline

- Thank you!
- The message from T. Hallman, DOE NP Office
- EICUG Business: Statistics / Committees
- Planned / ongoing activities and events
- Outlook



EICUG
Electron-Ion Collider User Group Meeting

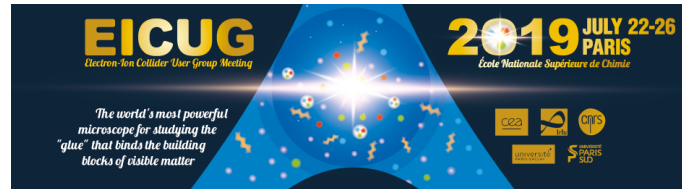
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The world's most powerful microscope for studying the "glue" that binds the building blocks of visible matter

Logos for C2A, INF, CNRS, Université de Paris, and Université Paris Sud.

THANK YOU!

- Thank you for participating at the [EICUG meeting 2019](#) on behalf of the EIC Users' group Steering Committee



- Special Thanks to Francesco Bossu, Carlos Muñoz Camacho, Valérie Frois and Franck Sabatié and their staff for hosting the Users' meeting this summer in Paris.
- Special thanks to funding agency and community representatives in the EU and US of the afternoon session starting at 15:00:
 - [Tim Hallman](#): DOE NP Perspective on a Future Election Ion Collider
 - [Anne-Isabelle Etievre](#): EIC interest from CEA-Saclay/IRFU perspective
 - [Patrice Verdier](#): EIC interest from CNRS/IN2P3 perspective
 - [Eugenio Nappi](#): EIC interest from INFN perspective
 - [Manfred Kramer](#): Nuclear Physics at CERN
 - [Marco Radici](#): Summary of EU strategy update
 - [Barbara Erazmus](#): Overview of European Hadronic Physics integrating activity STRONG2020



The Message from Tim Hallman, DOE NP Office



EIC Users' Group Meeting - Paris
Paris, France, July 22-26, 2019



The Message from Tim Hallman, DOE NP Office

□ Internationalization

The International Foundation for EIC: Meeting at IUPAP

- DOE encourages international cooperation in EIC activities, including nuclear and accelerator sciences, detector and accelerator R&D, computing, engineering and construction efforts.
- DOE-led EIC meeting with international funding agency and government representatives during the 5th IUPAP nuclear science symposium has been scheduled on August 3 at the University of Notre Dame London.

Attending are representatives of Australia, Brazil, Canada, France, Germany, Japan, Korea, India, Italy, Russia, UK and South-Africa.

Invitations are also being sent to CERN, Poland, Sweden, Romania



The Message from Tim Hallman, DOE NP Office

□ Current Status and Path Forward

Current Status and Path forward of EIC

The “wickets” are substantially aligned for a major step forward on the EIC

- A Mission Need Statement for an EIC has been approved by DOE
- An Independent Cost Review (ICR) Exercise mandated by DOE rules for projects of the projected scope of the EIC is very far along
- DOE is moving forward with a request for CD-0 (approve Mission Need)
- DOE has organized a panel to assess options for siting and consideration of “best value” between the two proposed concepts
- The Deputy Secretary is the Acquisition Executive for this level of DOE Investment
- **The FY 2020 President’s Request includes \$ 1.5 million OPC. The FY 2020 House Mark includes \$ 10 million OPC and \$ 1 million TEC.**



The Message from Tim Hallman, DOE NP Office

- Collaborative EIC community

Additional Comments

The goal of DOE all along has been to have both communities work together constructively towards an EIC throughout the lead up, during construction, and implementation of the research program and that has informed the approach developed by NP, SC, and S4

The underlying philosophy; no big winner and no big loser:



Unlike Agincourt in 1415, the goal is “everybody wins”.

There is a chance, if the momentum continues, that the EIC could be “on a path” in the foreseeable future with the stage set for next steps (e.g. planning for how construction scope will be shared, detector R&D, etc.). Continued constructive community cooperation can play a big role in the pace of progress.

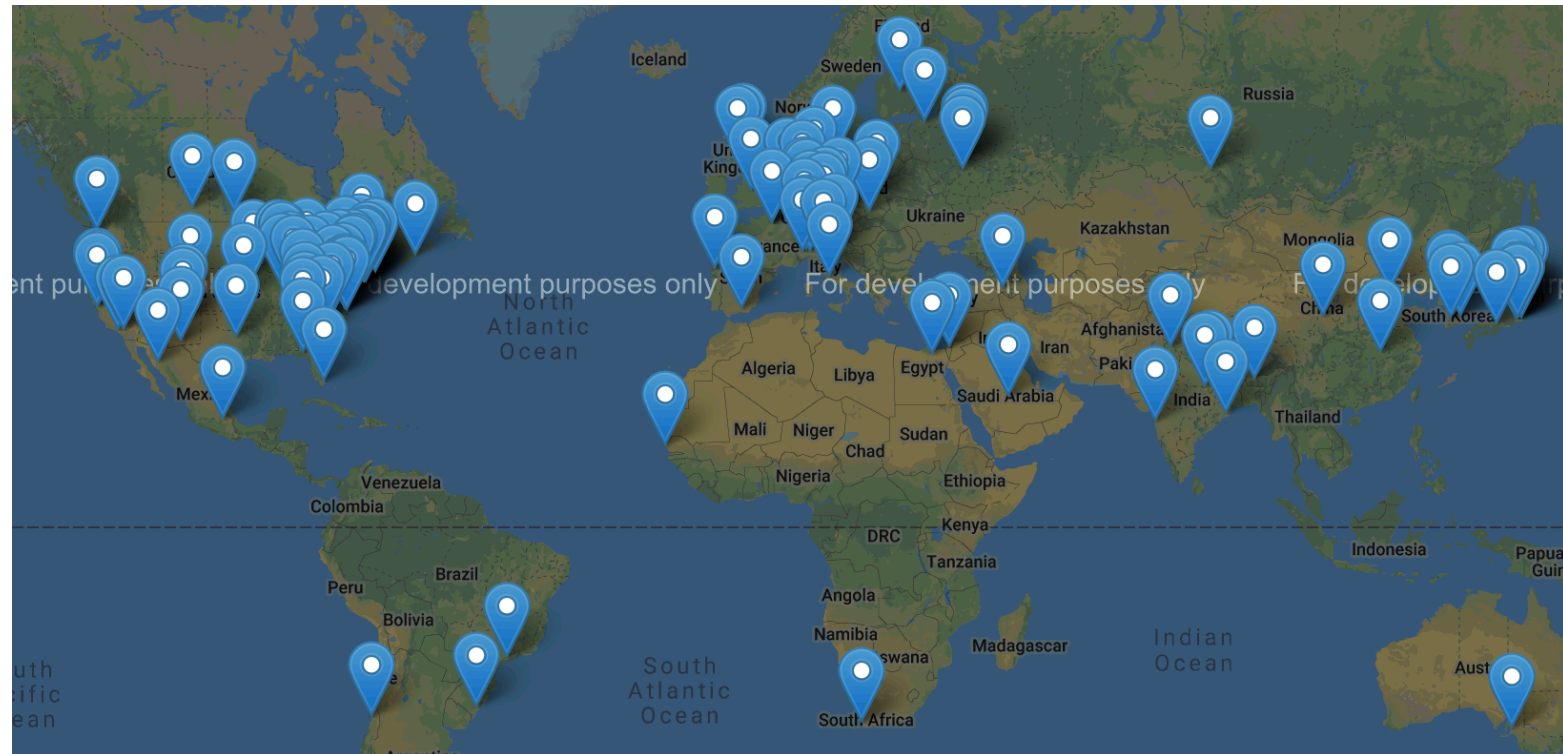


EICUG Statistics

□ Size and demographics (1)

- EICUG organization established in summer 2016
- In numbers....: **881 members** (Experimental scientists: 511 / Theory scientists: 188 / Accelerator scientists: 142 / Support: 3 / Other: 37), 186 institutions, 30 countries, 6 world regions

○ World map:

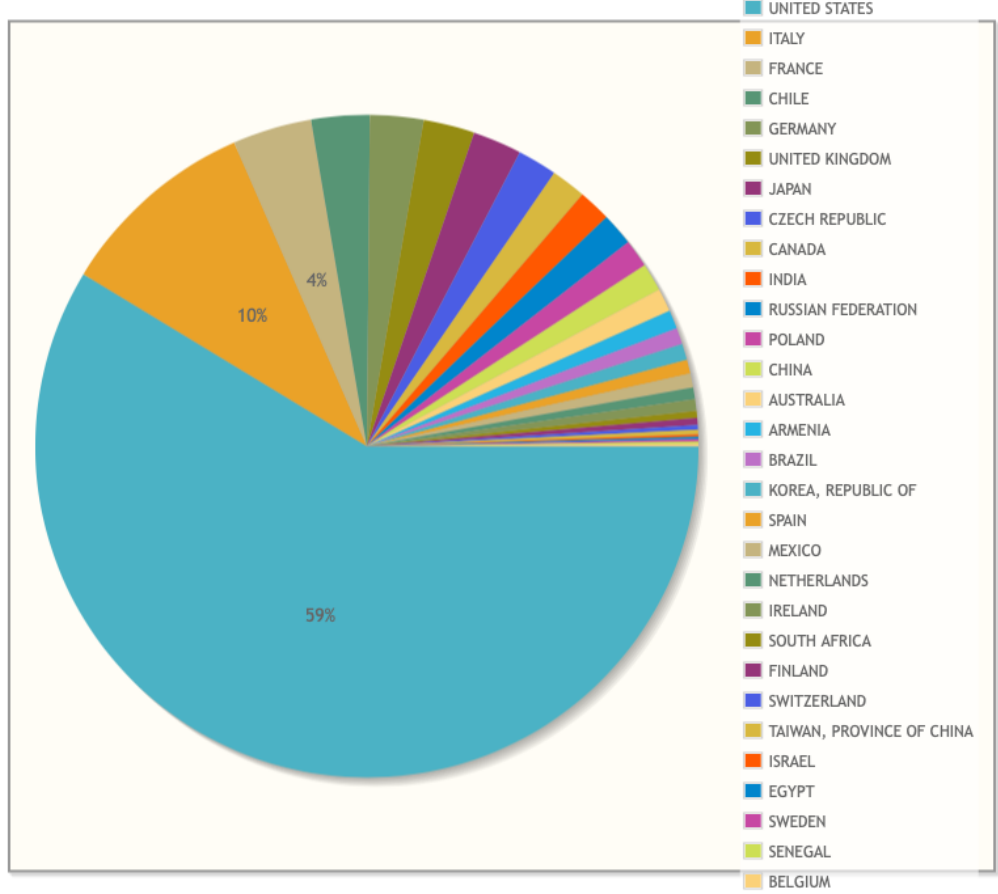




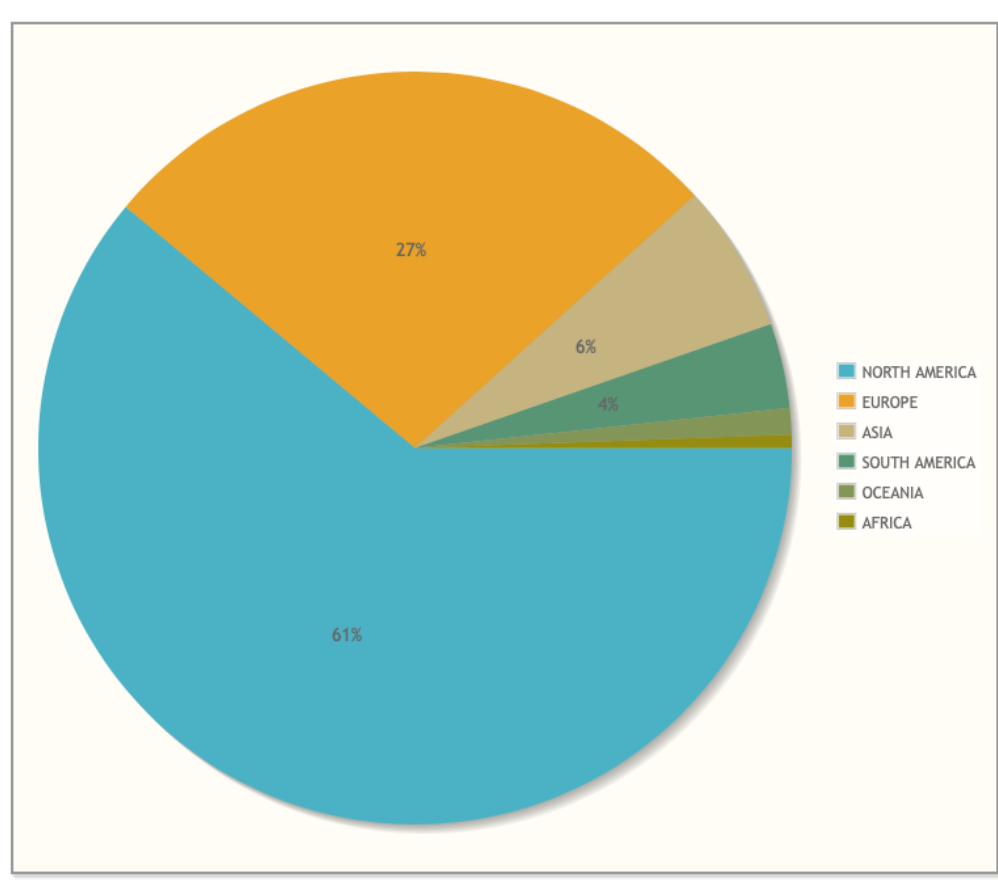
EICUG Statistics

Size and demographics (2)

Members by Country:



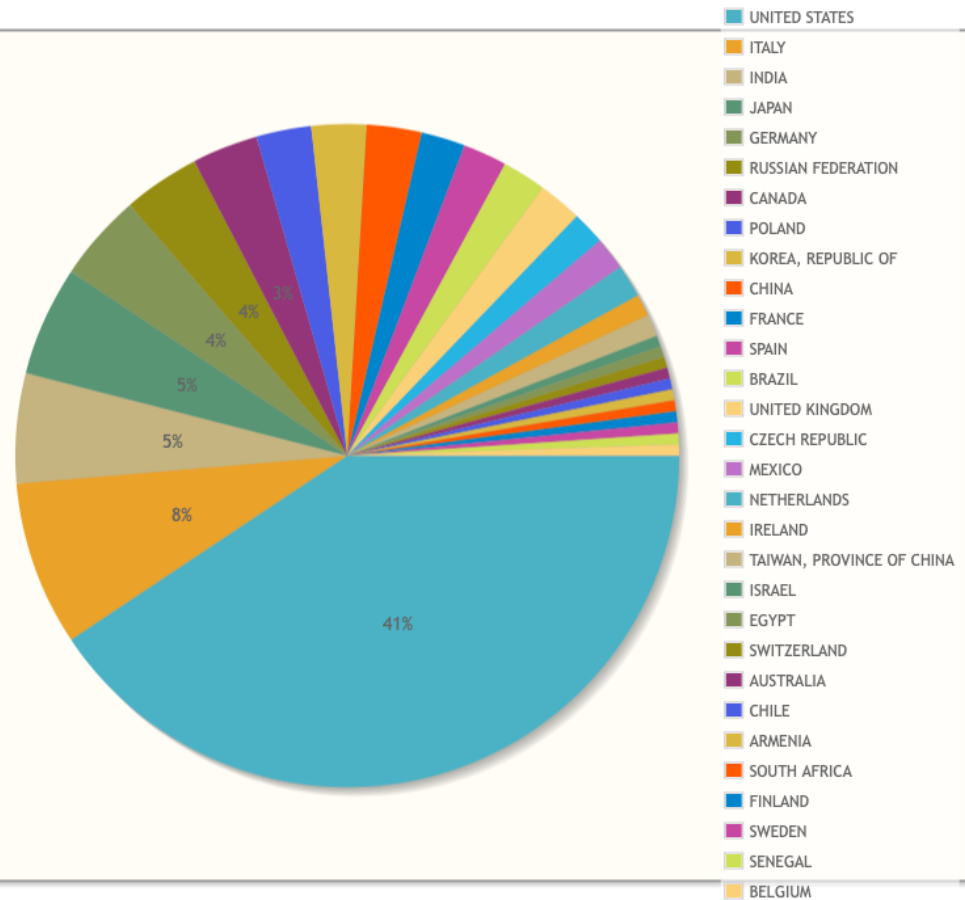
Members by Region:



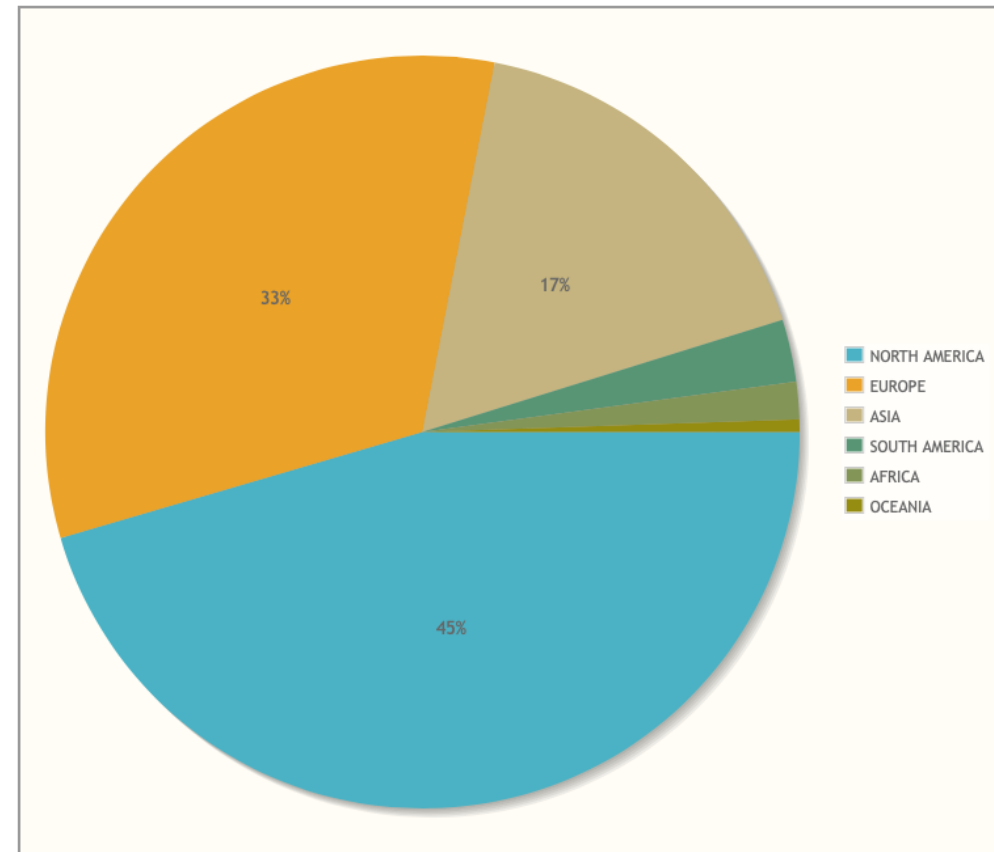
EICUG Statistics

Size and demographics (3)

Institutions by Country:



Institutions by Region:





EICUG Committees

□ Steering Committee

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

- **Chair:** Bernd Surrow (Temple University, USA); term Aug 2019 - July 2021
- **Vice Chair:** Richard Milner (MIT, USA); term Aug 2019 - July 2021
- **At Large Members:**
 - John Arrington (Argonne National Laboratory, USA); term Jan 2019 - Dec 2020
 - Marco Radici (INFN - Pavia, Italy); term Jan 2019 - Dec 2020;
 - Ernst Sichtermann (Lawrence Berkeley National Laboratory, USA); term Nov 2017 – Oct 2019
- **European Representative:**
 - Daniel Boer (University Groningen, NL) ; term Aug. 2019 - July 2021
- **International Representative:**
 - Yuji Goto (Riken, Japan): term Apr 2018 -- March 2020
- **Lab Representatives:**
 - Thomas Ullrich (Brookhaven National Laboratory, USA)
 - Rikutarō Yoshida (Thomas Jefferson National Accelerator Facility, USA)

Sincere THANKS
to Charles Hyde
for his service as
Vice-Chair over the
last two years!

□ Meetings / Agenda / Minutes: BlueJeans Meetings, Thursday, 10:00AM (EDT)

<http://eicug.org/web/content/steering-committee>



EICUG Committees

□ Election & Nomination Committee (E&N): 5 members drawn from entire EICUG

- Kawtar Hafidi (ANL)
- Paul Newman (University of Birmingham)
- Richard Milner (MIT) (Chair)
- Raju Venugopalan (BNL)
- Christian Weiss (JLab)

New committee will be appointed shortly. Please provide names for suggestions!

□ Charge:

Once the Steering Committee is in place, the SC Chair will put in place an **Election and Nominating (E&N) Committee** consisting of **five members drawn from the entire EICUG membership**, with no more than two members from the same institution, and excluding members of the SC. **The E&N Committee will elect by majority vote its own Chair.** The term of each member on the E&N Committee is 1 year. Members may serve no more than two consecutive terms on the Nominating Committee. **The E&N Committee is charged with drawing up a slate of candidates for all open positions on the Steering Committee**, to be presented at the next meeting of the EICUG membership. The slate shall include at least two candidates for each open position. In the event that a full slate of six candidates cannot be identified for the three at-large SC positions, the three candidates who receive the largest vote totals will still be deemed as the newly elected at-large members. In addition, the E&N Committee conducts the elections. To avoid the possibility of conflict of interest, commercial companies will not vote in the elections.



EICUG Committees

□ Conference & Talks Committee (E&N): 5 members drawn from entire EICUG

- Carlos Munoz Camacho (IPN-Orsay)
- Yulia Furletova (JLab)
- Barbara Pasquini (Pavia)
- Lijuan Ruan (BNL)
- Ralf Seidl (RIKEN) (Chair)

- 1) Link: [Upcoming Talks and Conferences](#)
- 2) Link: [Previous Talks and Conferences](#)
- 3) Link: [Talk guidelines](#)
- 4) Link: [Open EICUG talks](#)

□ Charge:

- **Receive requests for EIC speakers and nominate appropriate speakers soliciting input from the EICUG in a procedure that is timely, equitable and transparent to all EICUG members.** The procedure by which this is done, and subsequent amendment to this procedure, is to be determined by the conference and talks committee. The procedure, and subsequent significant amendments should be approved by the Steering Committee, and publicized to the EICUG.
- **Actively contact upcoming conference and meeting organizers** and inform them of the service offered by EICUG Conference & Talks Committee to provide appropriate EIC speakers.
- **Report to the EICUG Steering Committee periodically.**

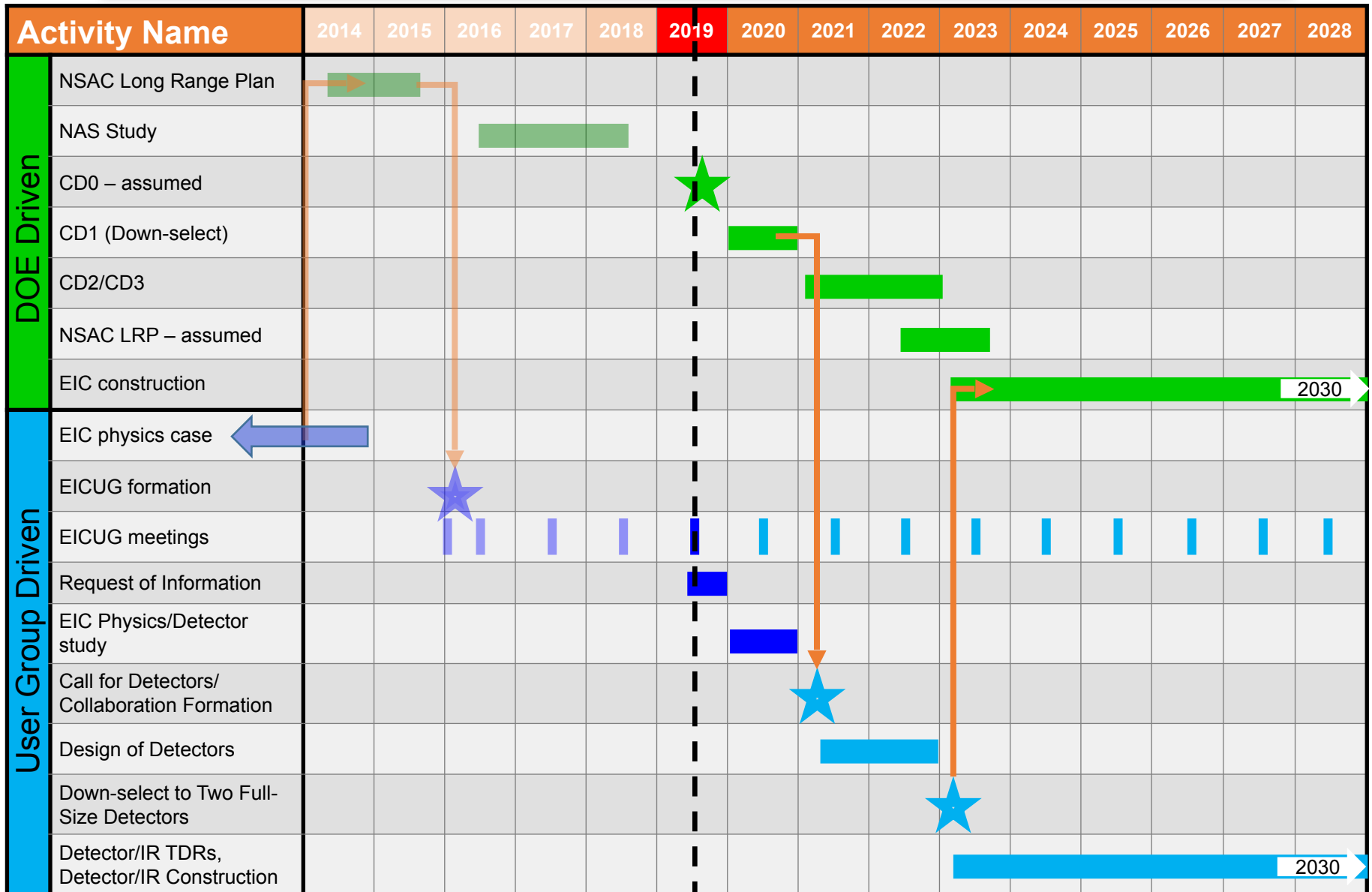
R. Seidl was elected as chair by the C&T committee / Work just started - Will ask all committee members if they are willing to serve another term!








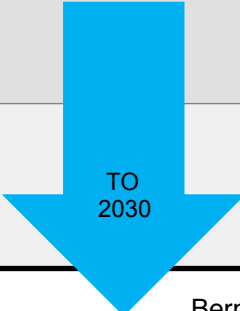
EICUG: Request of Interest

- **Request of Information** was circulated to EICUG on Saturday, July 20, 2019
- **Goal:**
 - **Information gathering initiative** in preparation for the start of the EIC project.
 - **Collect various EICUG essential information by institution** such as **size, physics interest, detector interest, facility information, infrastructure, and technical expertise** using an EICUG WWW-page database tool / Google forms.
 - Information is relevant to **determine the coverage of various physics and technical topics and determine in particular the broader interest of international groups.**
 - **Information gathered will only be used for internal, EICUG-specific, planning purposes** and will reside with the EICUG Institutional Board.
 - The **EICUG SC will analyze the collected data and present it in anonymous statistical form to the EICUG during an upcoming EICUG meeting.** This survey is **essential to guide the process for the formation of study groups, the discussion of detector options for two interaction regions, and the steps towards experimental collaborations** potentially crystalizing among common-interest groups/institutions.
- **Guidelines:**
 - **Each Institutional Board member is asked to collect the requested information.** We are asking you that your information is provided per institution collecting the requested information for your institutional research groups represented by theory and experimental faculty and senior staff beyond postdoctoral level long-term appointments.
 - Please **provide the information based on your current institutional capabilities/funding as a base.**
 - The completion of the survey will take about 15-20 minutes. Deadline: August 30, 2019

EICUG: Timeline



EICUG: Detector Timeline Steps

	Request of Information	EIC Physics / Detector Design Study	Collaboration Formation. Call for Detectors	Design of Detectors	Down Select to two full size detectors	Detector/IR TDR and Construction
2019	 User Group Driven				Collaboration Driven	
2020						
2021						
2022						
2023						
2024						 TO 2030



EICUG: EIC Detector and Physics Design Study

- Purpose: Advance the state of documented physics studies (Whitepaper / Detector and Physics Handbook) in preparation for EIC.
 - Quantify physics measurements for existing or new physics topics
 - Quantify detector needs and requirements (resolution, segmentation, grouping)
 - Engage the EIC community independent of laboratories
 - Create conditions for formation of Experimental Collaborations

- Proposal: EIC Users Group plans a long (~1 year) workshop series whose output is a physics/detector book that is composed of papers (typically 10 to 20 pages long) authored by the participants in the workshop series (as required, this can be repeated to prepare for later phases of the EIC).

- Format: Define 5 - 10 "areas" and appoint conveners (Experimentalists / Theorist) for each area, and one member of the EICUG Steering Committee as observer. The conveners accept proposed topics for study and organize meetings when appropriate. The Steering Committee observer has the responsibility to ensure activity and progress.



Planned / ongoing activities and events

- Appoint [new Election & Nomination Committee](#) / [Re-appoint Conference and Talks Committee](#)
- With anticipated award of CDO, [review charter](#) and eventually re-write charter which includes discussion of role of EICUG (<http://www.eicug.org/web/sites/default/files/EICUG-Charter-01122018.pdf>)
- Continue with [EIC specific Senate / House visit](#): First successful visit, Dec. 4, 2018
- Continue with [EICUG quarterly remote meetings](#): [Oct. 2019](#) / [Jan. 2020](#) / [Apr. 2020](#)
- Planning:
 - [Complete, analyze and present "Request of Information"](#)
 - Refine and update [timeline](#)
 - Detailed organization of [EIC Physics Design and Detector Study ~ 1 year workshop](#)
 - Discussion on formation of experimental collaborations
- Please provide any guidance or suggestions - We are in this together!

Summary

- We are at the dawn of a very exciting time realizing a future EIC Facility!
- Thank you for participating at the EICUG meeting 2019 on behalf of the EIC Users' group Steering Committee.
- Have a safe trip back home or enjoy your stay in Paris or elsewhere in Europe!
- See you in Miami in 2020 and Warsaw in 2021!

