

# Electron Ion Collider Collaboration (EICC)

*EIC Working Group(?)*

Abhay Deshpande & Richard Milner  
for  
EICC

EICC Meeting at MIT  
April 7, 2007

*Comments & suggestion that came up during the discussion are summarized in this format: red italicized on yellow background-boxes.*

# The EICC Charter: Purpose/Goal

The Electron Ion Collaboration (EICC) is formed with the following goals:

- To develop the most compelling science case for a high luminosity high energy electron-ion collider (EIC) independent of where it may be sited
- To work with accelerator physicists, especially at BNL and Jlab, to develop the optimal EIC accelerator design
- To design and realize through a R&D program the most optimal suite of detectors for the EIC

# **EICC Membership**

The EICC membership is open to any one who will work on achieving the goals of the EICC, stated earlier

# Why “collaboration”?

- Review of last few years...
- More than 25 institutes, ~100 people from three continents now want to know the status of various issues.. And more are joining this group.
- Effective communication with every one interested in the project
  - Many needs have come up: MC Generators and studies, R&D item prioritization.....
- Identify people with specific responsibilities, so that studies which are initiated continue
  - Distribution of responsibilities will create new collaborators through wider communications
- After the Galveston meeting
  - Need for a forum for discussions and input from all
- *Ride with the momentum gained so far, not only through the NSAC 2007, but beyond that to work towards “Scientific Need” or “CD0” in DOE lingo*

# EIC “Collaboration”

- Collaboration: “People who are willing to support the goals of the EIC collaboration and are willing to further them in any way they can”
  - Non-binding for now
  - Informal in activities & approach
  - But, **organized**
- PROs? I have already said...
- CONs?
  - Issues with Conflict of Interest? (Ed Kinney’s comment: funding agencies might perceive in aspect of EICC membership)
  - Others?

*Another concern was raised/discussed (Thomas Ullrich) calling this group a Collaboration, with regard to involvement of theorists...: It was generally agreed that to avoid such un-intended consequences, we might call ourselves EIC WG (similar to ILC), and be equally inclusive but at the same time remain **organized as proposed.***

# EICC Governance

The EIC Collaboration: governed by an EICC Steering Committee, broadly representative of the collaborating institutes with two co-chairs who will act as contact persons/spokespersons of the collaboration.

The purpose of the steering committee is:

- To oversee the coordination of the three central activities of the EICC, to work
- To work with all parties towards timely realization of EIC
- To ensure that the Collaboration is appropriately represented at all meetings, conferences, and relevant discussions

The Steering Committee is appointed by the EIC collaboration, and will be renewed *~annually*

# EICC Steering Committee

## Present Membership

- Allen Caldwell (MPI, Munich)
- Abhay Deshpande (Stony Brook, RBRC; Co-Chair/Spokesperson)
- Rolf Ent (Jlab)
- Gerry Garvey (LANL)
- Paul Reimer/Roy Holt (ANL)
- Emlyn Hughes (Columbia U.)
- Ken-Chi Imai (Kyoto U.)
- Lia Merminga (Jlab, Accelerators)
- Richard Milner (MIT, Co-Chair/Spokesperson)
- Peter Paul (Stony Brook)
- Jen-Chi Peng (UIUC)
- Thomas Roser (BNL, Accelerators)
- Two more asked: **LBL**, Indiana, awaiting response

*After the meeting Peter Jacobs  
Conveyed his consent to be on the  
Steering Committee*

# Working Groups and Conveners

To keep the momentum & studies going, we need to have different people take lead in various important sub-parts of this project.

## 1. Physics WG

- Polarized e-p
- Un-polarized e-p
- Un-polarized e-A
- GPDs: ep/eA
- Any other?

*The steering committee will approach individual members of the Collaboration (EIC WG) seeking help organize these working groups.*

## 2. Monte Carlo Simulations

## 3. Detector R&D

## 4. Any other?

***We suggest two or three interested & motivated people to volunteer and take lead in activities of each WG.***

# Meetings & Communication

- We propose 2 per year at the collaboration level
  - If some one is interested in hosting the next one around October'07, please contact us.
- Conveners will decide how many (more) might be needed and how to organize them.
  - In the past, informally, every three to four months some of us have met at: Colorado, BNL, Jlab....
- In discussion with the SC and the conveners, we will also organize topic meetings as and when needed, example:
  - Recent GPD workshop at UMD
  - Polarimetry WS for electrons and light polarized ions being discussed at this meeting (Wolfgang Lorenzon & Abhay Deshpande)
  - eA MC generator workshop (Brian Cole's talk)
    - Couple this effort with possible e-p MC generators?
- Strongly encourage you to start using the archived e-mail lists already available: (You will soon get an email about this)

# Last but not the least!

- Thank you all for coming on this holiday weekend
  - It shows your interest and commitment to this project
  - We look forward to work with this group in the coming years
- Thanks to our MIT collaborators: Richard, Doug, Bernd & Sheela Marston for hosting and organizing this nice meeting!
  - High bar for the future meeting organization
- Good bye, have a safe trip back, and see you very soon