

## Fermilab Community Advisory Board Meeting March 22, 2018

### Meeting Minutes

*Members attending:* Brenner, Gebhardt, Goodman, Wilson, Kania, Egeland, Garstecki, Inglese, Van Cleave, Hawks, Klaus, Faber, Porter, Tsang

*New members:* Gaby Hernandez, Ted Mesiacos, John Watts, Mike Salazar, Ewa Jodlowska, Joe Aguilar, Arnolfo Santoro, Debra Swinden

*Fermilab/DOE personnel attending:* Lockyer, Riesselmann, Yurkewicz, Bollinger, Hahn

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- 1.) Welcome (Kurt Riesselmann)
  - 2.) Around-the-table introduction of current and new members
  - 3.) Presentation: Kurt Riesselmann - Update of current projects – see posted presentation
    - Projects and their DOE Critical Decision (CD) milestones
      - CD-0 – DOE approves idea/goal and declares mission need
      - CD-1 – DOE approves concept of project
      - CD-2 – DOE approves and fixes cost and timeline of project
      - CD-3 – Construction begins
      - CD-4 – Construction ends
    - Projects completed at Fermilab between 2014-2018
      - NOvA neutrino project (construction at Fermilab and in Minnesota)
      - MicroBooNE neutrino project
      - Muon g-2 project
      - Utility Upgrade Project
    - List of current projects – 2018-2020
      - CMS Phase 1
      - CMS High-Lumi Upgrade at CERN
      - LHC High Lumi Accelerator
      - LCLS-II X-ray Laser project
      - Mu2e muon project
      - LBNF/DUNE neutrino project
      - PIP-II accelerator project
      - Integrated Engineering Research Center (IERC)
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- Planned talks and tours at upcoming CAB meeting in 2018
  - Frequent updates on LBNF/DUNE neutrino project (Fermilab's flagship project)
  - Presentation on PIP-II (construction of new accelerator close to Wilson Hall)
  - Progress on IERC (construction of new building close to Wilson Hall)
  - Tour of ICARUS neutrino experiment
  - Presentation on education programs
  - Presentation on recruitment and diversity

#### 4.) Q&A with Fermilab Director Nigel Lockyer

- What big astrophysics projects is Fermilab involved in?
  - Dark Energy Survey in Chile – study of 300 million galaxies
  - Large Synoptic Survey Telescope, led by Stanford Lab – observation of 10 billion galaxies
- Are there any plans to have a tribute to Stephen Hawking?
  - Hawking visit Fermilab many years ago. No plans to have any kind of tribute
- What is new?
  - Quantum is the new nano – particle physics is the new quantum
  - Have scientists working on new experiment on teleportation
- Is current administration supportive of Fermilab's research and projects?
  - They are highly supportive
- Do you feel that the budget and the shut down have been a problem?
  - We have been able to make things work, but there are some delays with projects
- Are there any new partners coming on board with the LBNF/DUNE?
  - Primary partners so far are CERN, UK, India, Italy, Switzerland, France.

#### 5.) Walking tour of Linear Accelerator and Main Control Room

#### 6.) Adjourn

Next meeting: May 24, 2018

