

US Groups Overview

Bob Wilson
13 May 2018
ICARUS Collaboration Meeting
Fermilab

Outline

- Local Groups Listserv
- Survey of US Groups Interests
- US Groups Short Presentations

US Groups Listserv

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US Groups Survey of Interests

Thanks to Minerba for the idea to do a Google docs survey and the initial set of questions; additions from Angela

Name + Institution

11 responses

Vittorio Paolone+University of Pittsburgh

William Louis, LANL

Daniel Cherdack [University of Houston]

Milind Diwan BNL

Michael Mooney, Colorado State University

Bob Wilson Colorado State University

Jaehoon Yu+University of Texas at Arlington

Kevin McFarland, University of Rochester

Mark Convery SLAC

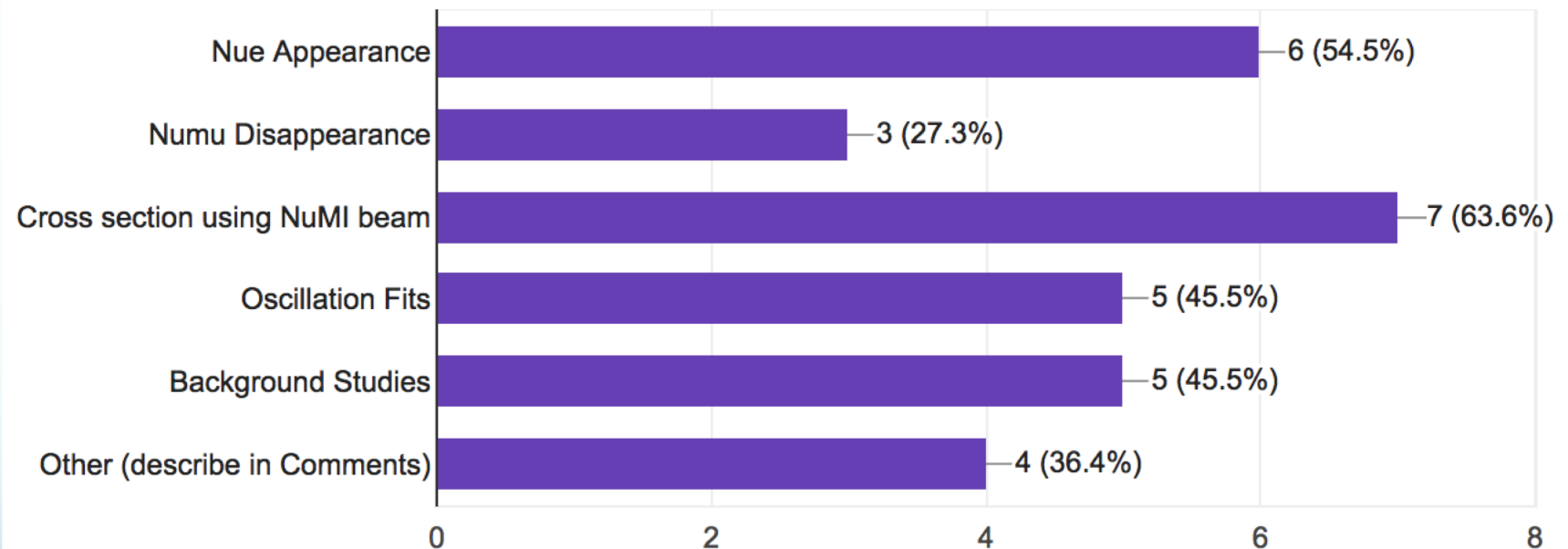
Fermilab

Elizabeth Worcester, BNL

US Groups Survey of Interests

Science interest [Check all that apply.]

11 responses

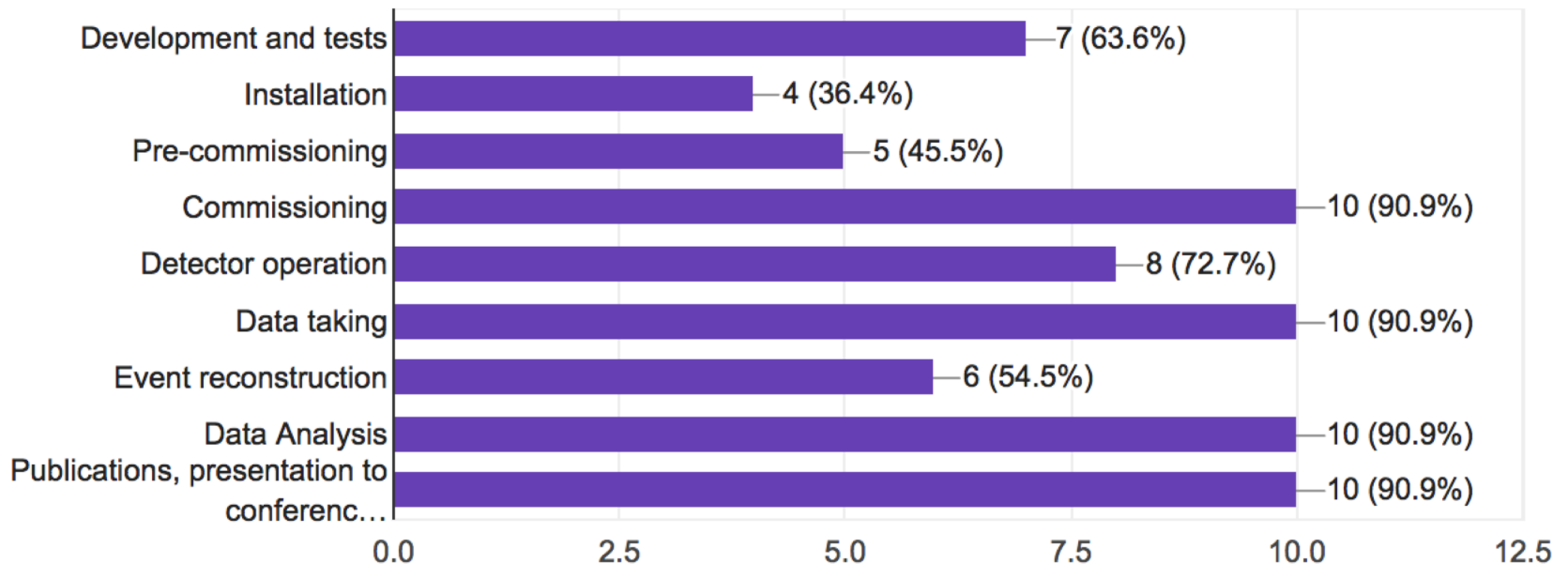


US Groups Survey of Interests

The “Activities for ICARUS” slides were distributed to the US Groups 30 April 2018. The files is attached to the agenda for tomorrow morning’s session.

Which Activities is your institution interested to contribute? [Check all that apply.]

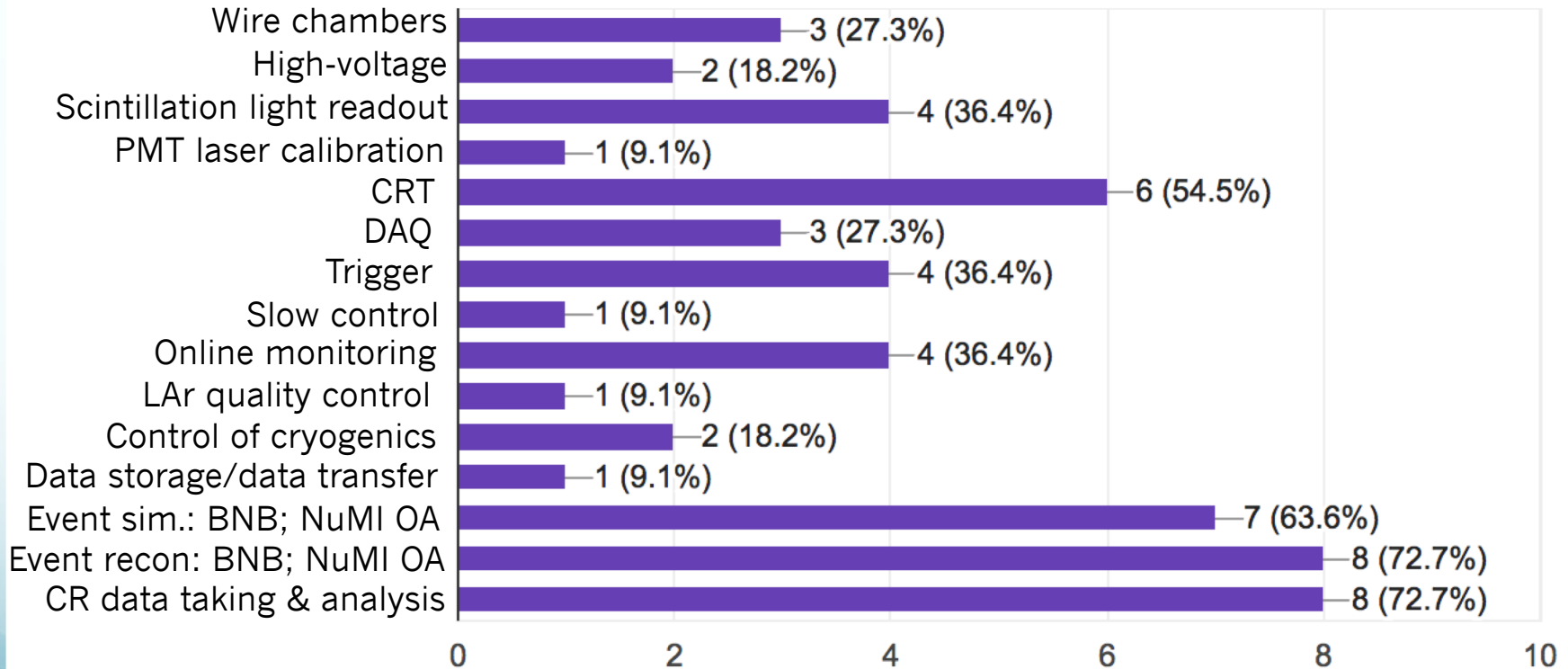
11 responses



US Groups Survey of Interests

Which sub-systems is your institution interested to contribute? [Check all that apply.]

11 responses



US Groups Survey of Interests

More details about the contribution - it would be helpful to refer the "Activities" file (<https://indico.cern.ch/event/727055/>) for specific activities e.g. slide 5 items 8-10 and slide 6 - item 4

How many graduate students, post-docs and summer students are you expecting to have working in ICARUS? [Include FTE estimate and if they will be resident at Fermilab.]

Summary:

Faculty ~10-12 (varying effort) mostly away from FNAL

Staff Sci. 2 away + 0.5 FNAL

Post docs ~5 fte away + 3 fte FNAL

Grad students ~ 3 fte away 2 fte FNAL

You will hear details in the following presentations.

US Groups Survey of Interests

Comments/Feedback

5 responses

Including stopping Kaons (mono-chromatic ν_{μ} s from NUMI beam dump), improving SBN NuMI flux predictions using NA61 hadro-production measurements.

I think it is an omission to leave out "TPC electronics" in the contributions list above, unless you are saying it is oversubscribed...

Not committing to 100% of the above!

I am interested in beyond the standard model physics, in particular the low mass dark matter search

We submit our operating grant renewal application in early fall 2018. Our ability to participate will be completely contingent on our ability to articulate a clear plan for ICARUS work in that grant application and a positive review of that contribution.

Topic for discussion tomorrow afternoon

US Groups Presentations

Shown at the US Groups meeting 2 May 2018

- **Goal:** Introduce the group, interests and ways the group *could* contribute to ICARUS in the installation, commissioning, and run phase of the experiment
 - A guaranteed minimum of 12' (can use less) but we can adjust once we know how many presenters there are
 - It is understood that some groups are more able to commit to specific tasks
- It is assumed everyone is motivated to be in ICARUS for the physics program
 - Expressing interest in particular areas of physics interest is good but in this presentation it should be fairly declarative
 - BNB Oscillation Physics
 - Cross section analyses with NuMI neutrinos
 - There will be more explicit physics discussions at future collaboration meetings!