

FY2010 USQCD Demographic Survey Report

Revision 0.1

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May 5, 2011

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Change Log

Revision No.	Description / Pages Affected	Effective Date
0.0	Entire document.	October 15, 2010
0.1	Revised membership list	May 5, 2011

1 Survey Objective

During the DOE review held in April 2010, reviewers asked the following question: “Can you give quantitative data showing that your field is receptive to new people entering the field or to young people entering the field?” To answer this question, the LQCD Executive Committee Chair committed to conducting a comprehensive demographic survey. The objective of this USQCD Collaboration Membership Survey is to identify all members of the USQCD Collaboration and the basic demography of the population. This survey was not an anonymous survey. It is expected that if the survey is conducted for multiple years, it is likely that a pattern of the scientific interests in Lattice QCD would emerge.

2 Survey Follow-up

At the conclusion of the survey, it was noted that several USQCD members did not participate in the survey. Working with USQCD key members of the collaboration, the membership list was updated. The comprehensive membership list as of May 1, 2011 is given in the Appendix.

3 Survey Summary

A total of 106 USQCD collaborators responded to the survey. 75% of collaborators are employed by a university and 45% of individuals have served as a Principal Investigator. Majority of them (34%) are faculty members and 24% of them are graduate students. Most of the researchers (31%) are in their current position for 2 to 5 years.

4 Requirements

As described in the USQCD Collaboration web page <http://www.usqcd.org/collaboration.html>, “The USQCD collaboration was founded in 1999, for the purpose of creating and utilizing software and dedicated hardware resources for lattice gauge theory calculations. It is funded by the Department of Energy through the Scientific Discovery through Advanced Computation (SciDAC) program, and through the Office of Science's High Energy Physics and Nuclear Physics programs. A majority of United States lattice gauge theorists are members.” The instruction about how to become a USQCD member is also given in the above web page.

Basic requirements of the survey are as follows:

1. Following questions will be sent to the collaboration members:
 - a. Please enter your information below.
 - First name
 - Last name
 - Email address
 - Name of the institution
 - b. What is the type of your institutions?
 - University
 - National Laboratory
 - Department of Energy
 - Non-governmental research institution
 - Other

- c. What is your job classification?
 Grad student - University
 Postdoc - University
 Postdoc - Laboratory
 Faculty - University (tenured or tenure track)
 Research scientist - University (non-tenured)
 Research Scientists - Laboratory
- d. Please enter the number of years you have been in your current position
- e. Have you ever been a Principal Investigator (PI)? [For the purpose of this survey, a PI is a person who is assigned to be so for any annual proposal submitted to the LQCD Scientific Program Committee (SPC).]
 Yes No

- 2. The survey will be announced to current sdac mailing list (sdac@physics.ucsb.edu) for USQCD collaboration.
- 3. The survey will remain active for one month.
- 4. The survey results will be available in excel format.

5 Survey Deployment

The survey was conducted using Fermilab’s license of the Zoomerang survey tool.

Survey Announcement Letter

“You are invited to take the following web based USQCD Demographic Survey:
<http://www.zoomerang.com/Survey/WEB22B3CZVE3RY>

The objective of this USQCD Collaboration Membership Survey is to identify all members of the USQCD collaboration and their basic demography. The survey closes on September 20, 2010.

Please note that this is not an anonymous survey. If you know anybody who might be a member of the collaboration, but not a part of the sdac mailing list, please contact Bakul Banerjee (bakulb@fnal.gov) with their information. All faculty members are encouraged to inform graduate students and Postdocs about this survey.

Please answer every question. If you have any questions regarding the survey, please contact Bakul Banerjee at 630 840-5251 or bakulb@fnal.gov.”

The survey was deployed on 8/30/10 and closed on 9/20/10. The executive committee chair sent a reminder on 9/2/10. The text is given below:

“Dear colleagues,

The DoE has been asking us to collect demographic information about our collaboration for several years. Thanks very much to Bakul for taking on this job for us. The purpose is to assemble a complete demographic picture of the collaboration. DoE wants to be able to ask us, for example, how many graduate students are in the field and how many postdocs, to see whether the field looks healthy with young people entering and advancing. They assemble such information for many groups they fund.

If you have graduate students or undergraduates who work on lattice QCD with you, we'd like to know about them, too, even if they're not members of USQCD. (They should join.) We want to get a response from every active person who works with USQCD.

The survey takes about a minute to fill out. Try to make sure that everyone in your group fills it out. I'm going to report on the results at our next LQCD review.

Thanks very much for your help,
Paul

Paul B. Mackenzie
Theoretical Physics Department
Fermilab
(630) 840-3347

6 Data Analysis

The primary objective of this survey was to collect basic demographic data for the USQCD collaboration. Questions were intended to identify the names, email addresses, positions held, and affiliations. The survey also collected data about years of work experience and number of Principal Investigators.

A total of 106 unique individuals responded. Two entries were made manually and two duplicate entries were deleted.

The analysis of the rest of the data collected is given below.

6.1 Employment

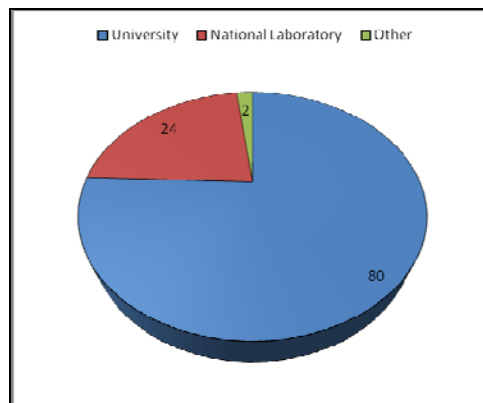


Figure 1: Employment

6.2 Job Classification

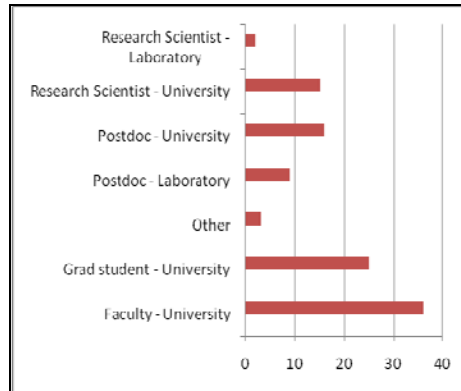


Figure 2: Job Classification

6.3 PI Experience

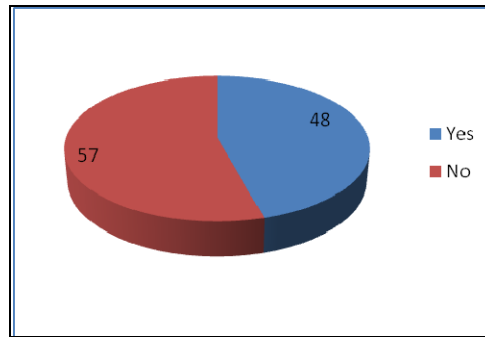


Figure 3: PI Experience

6.4 Years in Current Position

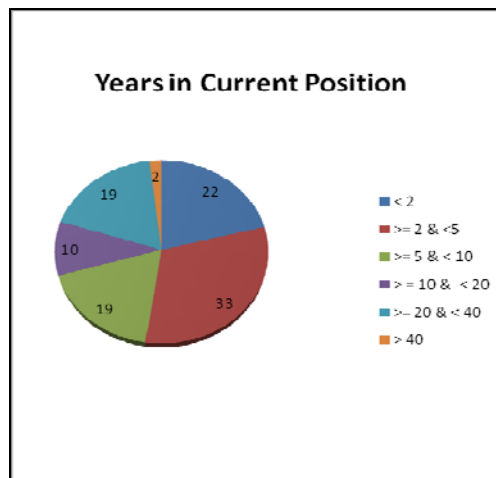


Figure 4: Years in Current Position

Appendix: List of USQCD Membership

Last name	First Name	Institution	Email address
Abdel-Rehim	Abdou	College of William and Mary	amrehim@cs.wm.edu
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