

# Information on Manpower Within GlueX

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## Abstract

This note highlights the issues that we would like to see addressed in the various talks at during the October 2007 GlueX Collaboration Meeting.

## 1 Introduction

Over the next nine months, there will be a tremendous amount of work that needs to take place to be ready for the CD3 reviews which are likely to start in June of 2008. Because of this, we have several very important tasks that we need to accomplish at this meeting. First, we need to have everyone aware of what will need to happen in the run up to CD3 and what will be expected. Second, we need to start putting in place the construction MOUs for the detector. These will be different (more legal) than the agreements we had for R& D. We also need to take an accurate picture of the anticipated manpower which will be needed for the construction tasks and how much of this man power is identified and possibly in place. Finally, we need to understand (as best as is possible in the environment that we are working) what a 100% design really means and what is left to do to get to it.

As people are putting together their talks, it would be particularly important to focus on those topics that are oin to help us develop the picture we need. Good questions to try and answer in the talks are:

1. Who is responsible for the construction of the detector component?

2. If the construction is split, what is the split in responsibility and who has the primary contact?
3. What manpower is available at the local institution (with names, positions and level of commitment)?
4. What other commitments do the above people have (other experiments...)?
5. Are there planned/expected retirements over the next five years?
6. What manpower is anticipated as part of the construction? (This is in the documnetation for CD-2, but can we see it spelled out her?)
7. Is there more manpower needed and if so, what is it?
8. What is the current status of the design, and in particular what is missing?
9. What needs to happen to get to a 100% design?
10. Is the manpower in place to get to this design?
11. Is the space available, or will it be available to carry out the work?

Addressing these issues in the talks will hope us focus on the manpower situation as a whole. It will also greatly facilitate the writing of the construction MOU's which we need to start putting in place.

## **2 The Detectors**

This section lists what our current understanding is on the various detectors and components. It is a starting point and should be updated. All commnets are welcome on this.

### **Tagger and Photon Beam**

This includes all aspects relevenat to producing the tagged, polarized photon beam for GlueX. The following institutions are associated with this project as some level. We have also had interestexpressed from Yerevan to take on the pair spectrometer for measuring polarization.

- Catholic University
- University of Connecticut
- Glasgow
- ITEP (Protvino)

### **The Liquid Hydrogen Target**

Jefferson Lab is responsible for the design and construction of the liquid hydrogen target.

- Jefferson Lab.

### **The Start Counter**

If we build a start counter, then Jefferson Lab has responsibility for this element.

- Jefferson Lab.

### **The Central Drift Chamber**

This chamber is the responsibility of Carnegie Mellon University. It includes the chamber, gas system and Electronics to get high voltage onto the chamber and signals off the wires. It does not include the preamplifiers and beyond.

- Carnegie Mellon University

### **The Forward Drift Chambers**

These chambers are currently the responsibility of Jefferson lab. The chamber/electronics break is the same as for the CDC.

- Jefferson Lab.

## **The Barrel Calorimeter**

The University of Regina has responsibility for both the construction of this detector and the readout electronics that reside on the calorimeter (nominally the SiPMs). The University of Alberta is working with the University of Regina on this project.

- The University of Regina
- The University of Alberta

## **The Time-of-Flight Wall**

The time of flight wall including the light gathering electronics is the responsibility of both Indiana University and IHEP (Protvino).

- Indiana University
- IHEP Protvino

## **The Forward Calorimeter**

The calorimeter, its support structure and the on-glass electronics are the responsibility of Indiana University.

- Indiana University

## **The Upstream Photon Veto**

- Florida State

## **The Superconducting Solenoidal Magnet**

- Jefferson Lab
- IUCF

## **2.1 Mechanical Infrastructure**

This include platforms, installation equipment, etc.

- Jefferson Lab
- Others?

### **Trigger**

- Christopher Newport University

### **Readout Electronics**

- Jefferson Lab
- IUCF
- U. Penn
- University of Alberta

### **Data Acquisition and Slow Controls**

- Jefferson Lab

### **Reconstruction and Simulation Software**

- Jefferson Lab
- University of Regina
- University of Connecticut
- Carnegie Mellon University

### **Analysis Software**

- Indiana University
- Carnegie Mellon University