**Jefferson Lab Laboratory Directed Research & Development (LDRD)**

10/7/2014

This year marks the second year of Jefferson Lab’s LDRD program. As indicated earlier, our review process this year included both the evaluation of new proposals and the evaluation of the progress and plans for the three LDRD projects that were initiated last November. The review process has been completed and proposals have been selected to be funded.

In addition to status reports and plans for the three LDRD projects funded last year, seven new proposals were received and reviewed by the JLab LDRD Project Review team supplemented by subject matter experts. One of the proposals received was actually three individual projects all related to accelerator physics issues associated with the MEIC; for purposes of evaluation it was threated as three separate proposals. In some cases, the Project Review Team sought advice from people outside the laboratory. Verbal presentations of the proposals were made and the committee discussed at length the merits of each proposal.

In reviewing the projects, the team considered each project’s potential impact on the lab, the likelihood that it would achieve its goals, its level of innovation, its prospects for attracting future funding, and its alignment with the strategic directions of the divisions and of the laboratory. Ultimately of the twelve proposals considered, the selection committee classified five proposals as good, one as excellent, and six as outstanding. The three “continuation” proposals (for projects started in FY2014) were treated on equal footing with the proposals for new projects.

We have decided to fund all six of the proposals that were judged to be outstanding. Included in that group are all three of the proposals that began last year, and three new proposals related to MEIC accelerator physics issues. The total funding for all six projects exhausts the sum available for LDRD, but the implications for next year are modest as only one of the six projects plans to continue into FY2016. This will allow us to have a robust LDRD program in FY2016 within the total funding envelope for the program.

The proposals we will fund this year are:

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| **Proposal #** | **Submitted By** | **Title** |
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| ***Continuation of Projects Begun in FY14*** |
| 2014-LDRD-3 | Jack McKisson | Physics\_Wireless, Data Acquisition System for Imaging Detector |
| 2014-LDRD-6 | Christian Weiss | Physics potential of polarized light ions with EIC@JLab |
| 2014-LDRD-10 | Andrew Kimber | Development of a prototype for a fast RF kicker for the MEIC electron cooler |
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| **Proposal #** | **Submitted By** | **Title** |
|  |  |  |
| ***New Projects to be Started in FY15***  |
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| 2014-LDRD-1a | Yuhong Zhang | Cooling by a bunched beam |
| 2014-LDRD-1b | Yves Roblin | CSR Suppression experiment |
| 2014-LDRD-7 | He Zhang | Enhancing Simulation Capability for Electron Cooling in MEIC Project |

We are delighted with the progress that was made on the LDRD projects begun last year, and look forward with great interest to the results of all six of these projects and the boost they will give to long-term strategic directions of the laboratory. We would also like to express our appreciation to all the proponents and those who helped them with the proposals.