**Tagger Microscope Construction Update**

***Mechanical Construction Update***

**Summary of Events:**

Since April 1st, UConn has been concentrating on the fabrication of the first article fiber bundle. Successful fusing of optical fibers has occurred but the cross-sectional dimensions at the fused joint are out-of-spec. We are currently investigation the cause and are approximately 1 ½ weeks behind schedule. As of now, we are still on track for making the first article milestone provided new glass ferrules for the fiber splicing unit do not need to be ordered. If new glass ferrules are needed then the first article milestone might be pushed back by up to 4 weeks. If this delay occurs then it can be absorbed by the flexibility in the schedule during subsequent bundle production. In either case the delivery date for the microscope to JLab will stay the same.

**Current Projects:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Project*** | ***Start Date*** | ***Est. Completion Date*** | ***% Project Complete*** | ***Status*** |
| 1st Article Fiber Bundle | 04 Mar 2013 | 13 May 2013 | 36.2 % | - 3.6 % |
| TAGM Enclosure Drawings | 25 Feb 2013 | 03 Jun 2013 | 40.0 % | On Track |
| Electronics Encl. Construction | 11 Mar 2013 | 08 Nov 2013 | 11.4 % | On Track |
| Prep. for Storage/Shipment | 01 Apr 2013 | 14 Feb 2014 | 0.8% | On Track |
| Overall TAGM Construction | -- | -- | 4.1 % | On Track |

**Project Costs:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Project*** | ***Grad. hours*** | ***Tech. hours*** | ***Student hours*** | ***Machinist hours*** | ***Total Costs*** |
| 1st Article Fiber Bundle | 18 hrs($360) | 28 hrs($420) | 12 hrs($120) | 4 hrs($180) | $1080 |
| TAGM Enclosure Drawings | 12 hours ($240) | 2 hrs($30) | 0 | 0 | $270 |
| Electronics Enclosure Construction | 0 | 0 | 0 | 6 hrs($270) | $270 |
| Prep. for Storage/Shipment | 0 | 0 | 2 hrs($20) | 0 | $20 |
| Overall Man-hour Cost | -- | -- | -- | -- | $1640 |

**Upcoming Projects:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Project*** | ***Start Date*** | ***Est. Completion Date*** | ***Status*** |
| 1st Article Optical Fiber Bundle | --- | 13 May 2013 | Continued |
| TAGM Enclosure Drawings | --- | 03 Jun 2013 | Continued |
| Electronics Encl. Construction | --- | 08 Nov 2013 | Continued |
| Prep. for Storage/Shipment | --- | 14 Feb 2013 | Continued |

***Electronics Construction Update***

**Summary of Events:**

Since 1 April we noticed a schedule conflict between our contract schedule and Fernando's. We have discussed the issue and have resolved it with a slight modification to our schedule. The 1st article deadlines for the electronics have now been moved into the full assembly and testing. Once JLab receives the bias control boards and backplanes they will immediately send them to us, and Fernando has agreed to try to speed up the preamp SiPM assembly so by mid August we can have approximately 4 boards. The rest of the preamps will be sent piecewise as they're finished.

**Current Projects:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Project*** | ***Start Date*** | ***Est. Completion Date*** | ***% Project Complete*** | ***Status*** |
| Updating Electronics Drawings | 11 Feb 2013 | 25 Mar 2013 | 100 % | Completed |
| Overall TAGM Electronics Construction | 11 Feb 2013 | 31 Jan 2014 | 10.6 % | On Track |

**Project Costs:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Project*** | ***Grad. hours*** | ***Tech. hours*** | ***Student hours*** | ***Machinist hours*** | ***Total Costs*** |
| Updating Electronics Drawings | 66 hrs ($1320) | 0 | 0 | 0 | $1320 |
| Overall Man-hour Cost | -- | -- | -- | -- | $1320 |

**Upcoming Projects:**

|  |  |  |  |
| --- | --- | --- | --- |
| ***Project*** | ***Start Date*** | ***Est. Completion Date*** | ***Status*** |
| Updating Electronics Drawings | --- | 25 Mar 2013 | Completed |
| Receive All Bias and Backplane | End of July 2013 | 21 Oct 2013 | In Progress |
| Receive first set of Preamps | Mid August 2013 | 21 Oct 2013 | In Progress |