



CANARIE



CA^{net}⁴

Intelligent Infrastructure Program



Quarterly Progress Report

NETWORKS > COLLABORATION > RESULTS > RESEAUX > COLLABORATION > RESULTATS

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Project Information

Lead Contractor:	McGill University		
Project Name:	Underwater Window	Project #:	IIP-03
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Participant 1:	University of Victoria		
Participant 2:	Flex-Met Technologies		
Date:	June 15, 2006.		
Claim Period:	January 1, 2006	To:	March 31, 2006

Impact Report

The five full time positions continued, three at McGill and two at the University of Victoria.

Design of the hardware and software continued during the period. Consultations with the initial scientific users of the system led to modifications of the hardware plan and of the user interface.

It is too early for there to be other impacts.

Project Activities

The project was on schedule at Milestone 2 with the exception that the underwater component deployment plan is in progress rather than completed. This is due to the fact that the final weight of the equipment package will not be known for a few months when manufacture of the camera case and support structure are more advanced. The exact site for the camera must also be selected and a decision made on whether the camera can be deployed at the same time as other equipment or must be deployed on a separate voyage.

The camera was changed to an improved model of the one selected at Milestone 1 and the lens was changed to a less expensive model better suited to the underwater conditions. This is explained further in Appendix 1.

Insite Pacific Inc. of Solana Beach, California, was selected as the manufacturer of the camera housing due to their expertise in the manufacture of similar housings for other projects. See Appendix 3.

Collaboration was initiated with the UCLP team at University of Quebec at Montreal (UQAM) with a view to using their UCLPv2 lightpath software instead of v1. For that reason, there is no need to compare it to CRC's UCLPv1.

Deliverables Milestone 2: March 31, 2006.

1. High definition video camera selected.
Complete. See Appendix 1.
2. Hardware for video transmission over fibre selected.
Complete. See Appendix 1.
3. Underwater component deployment plan completed.
In Progress. See Appendix 3.
4. Existing McGill transmission software replicated in WSDL/SOAP.
Completed to the extent necessary. See Appendix 2.
5. Web services request processing software 75% complete.
75% Complete. See Appendix 2.
6. Plan for UCLP software test (CRC v.s. UQAM) completed.
Complete. Plan to test UQAM UCLPv2.
7. Underwater camera housing specifications completed and manufacturer selected.
Complete. See Appendix 3.
8. Connector and tether mounting specifications completed.
There is no need for a tether as explained in the Milestone 1 Report. The connector specifications are complete. See Appendix 3.
9. Design of underwater camera support system completed.
Complete. See Appendix 3.

Updated Project Plan

See "Project Activities" above for a detailed explanation of changes to the Project Plan. An updated Project Plan for Milestone 2 appears below.

Updated Milestone 3 – June 30, 2006.

10. Web Services software alpha test completed.

11. Plan completed for incorporating bio-fouling shutter if necessary.
12. Plan completed for incorporating illumination if necessary.
13. Underwater pan/tilt specifications completed.

Technological Progress

The “Report on Selection of the Camera and Fibre Transmission Hardware” appears in Appendix 1. The “Report on Web Services Software Development” appears in Appendix 2. The “Report on Underwater Component Development” appears in Appendix 3.

CA*net 4 and UCLP software will be used once the camera is operational.

Communications

There were no communications related to the project that took place during the period. At the end of the period, a joint press release on the project was in preparation by Canarie, McGill and the University of Victoria.

Web Site Information

Project web site: <http://www.canarie.mcgill.ca>