



CANARIE



# CA<sup>net</sup><sup>4</sup>

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:	March 27, 2006.		
Claim Period:	September 12, 2005	To:	December 31, 2005

## Impact Report

The project resulted in the creation of five new full time positions, three at McGill and two at the University of Victoria. The project was fortunate in being able to attract highly qualified staff.

An excellent collaboration was established among the participants. Plans were developed for the design of the hardware and software. The initial scientific users of the system were identified and consultations began on their requirements and the type of user interface that would best meet their needs.

Because this was the first milestone of the project, it was too early for there to be other impacts.

## Project Activities

The project was on schedule at Milestone 1 with the following exceptions.

The selection of a camera was completed on schedule, but the particular model was discontinued by the manufacturer word was expected on the date for introduction of an improved replacement model.

It was expected that a more expensive U.S. manufacturer of the camera case would be selected to take advantage of expertise gained in the manufacture of similar cases for other projects.

It was decided that a tether management system would not be necessary as explained in Appendix 3 and the design and manufacture of such a system was therefore eliminated from the Milestone 2 and subsequent deliverables. The savings will likely be used to pay for a more

expensive U.S. manufacturer of the camera case and for a more expensive 40X zoom lens as explained in Appendix 1.

## **Deliverables Milestone 1: December 31, 2005.**

1. Project staff hired.  
*Complete.*
2. Project web site established.  
*Complete.*
3. Consultation with other projects on specifications completed.  
*Complete. See Appendix 1.*
4. High definition video camera selected.  
*In Progress. See Appendix 1.*
5. Hardware for video transmission over fibre selected.  
*In Progress. See Appendix 1.*
6. Web services software development plan completed.  
*Complete. See Appendix 2.*
7. Underwater vehicle modification specifications completed.  
*Complete. See Appendix 3.*
8. Underwater component deployment plan completed.  
*In Progress. 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 2 – March 31, 2006.**

9. High definition video camera selected.
10. Hardware for video transmission over fibre selected.
11. Underwater component deployment plan completed.
12. Existing McGill transmission software replicated in WSDL/SOAP.
13. Web services request processing software 75% complete.

14. Plan for UCLP software test (CRC v.s. UQAM) completed.
15. Underwater camera housing specifications completed and manufacturer selected.
16. Connector and tether mounting specifications completed.
17. Design of underwater camera support system completed.

## Technological Progress

The “Report on the Consultation with Other Projects and Selection of the Camera and Fibre Transmission Hardware” appears in Appendix 1.

The “Report on the Web Services Software Development Plan” appears in Appendix 2.

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.

## Web Site Information

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