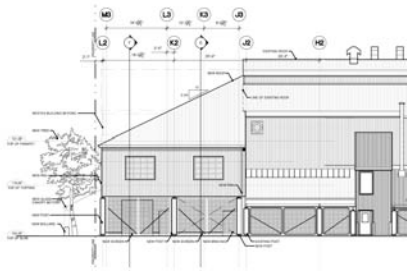
EMILY CARR INSTITUTE
ART + DESIGN + MEDIA

Intersections Digital Studio of Art + Design + Media
June 2006

idsateci

IDS CONSTRUCTION IS ON SCHEDULE FOR A FALL 2006 OPENING.



IDS WILL BE A NEW 10,000 SQ FT SPACE.

www.eciad.ca

About Intersections Digital Studio

During the past twenty years a dramatic evolution has taken place in visual arts, media arts and design around the world. Art and design institutions have responded to the challenge of this changing landscape by providing researchers and art and design students with opportunities that enhance their exposure to advanced arts and technology concepts and techniques.

- Intersections Digital Studio (IDS) will be a major expansion of ECI's current research capacity.
- IDS will occupy a physical space of 10,000 square feet at the Institute's Granville Island location.
- A modular building design with projectors, displays and sound equipment will create a flexible environment where specialized knowledge of art, design and technology will flow freely from one discipline to another. A key feature will be a Motion Capture Studio.
- IDS will offer opportunities for collaborations with other educational institutes and with industry.

Dr. Ron Burnett, President of ECI: "IDS is a multidisciplinary research centre where artists, designers, technologists, researchers and educators can work together and collaborate on new projects or programs."

Costs + Investment

In 2004/05, ECI was awarded grants toward the creation of IDS totaling $3,794,883:

- The Canada Foundation for Innovation awarded $1.5 million
- The BC Knowledge Development Fund awarded $1.3 million
- Partners on IDS, including ECI, The Banff Centre and the Province of Alberta, contributed $897,609

Additionally, Western Economic Diversification has provided a grant of $603,372 towards equipment for IDS and other areas of the school.

To enable the project to reach its fullest potential, ECI is currently seeking $1.5 million in funding from the corporate and private sector.

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Intersections Digital Studio (IDS) will deliver a new set of research tools into the hands of artists, designers and media creators.

anewtoolbox

IDS WILL FEATURE A MOTION CAPTURE SUITE.

A variety of exciting technologies will be available in the studio. They are a Motion Capture Suite, a CNC machine, thermal printers, spatial scanners, a Bailey kiln, a flatbed scanner, video cameras, a new G5 studio, and an Xserve server system. Each of these technologies will significantly expand the capacity for research, creative work and innovation at the Institute.

THE CNC MACHINE - A CUSTOM CUTTING MACHINE USED FOR RAPID PROTOTYPING.

The Motion Capture Suite

A Motion Capture Suite uses cameras to record information about movement, and allows what is captured to be used across a variety of applications.

Among other things, a Motion Capture Suite can capture 1000s of moves for a new video game, allows the creation of a crowd scene for a film or video by capturing just one or two actors, permits the simulation of environments, the visualization of designs, research in ergonomics, and development of art and design prototypes.

The CNC Machine

The Computer Numerical Control (CNC) AXYZ router is a computerized custom-cutting machine that can create a prototype model of almost anything.

The process of innovation begins with an idea or concept. Using one of ECI's 3-D modeling programs, the artist or designer can design a computer model of the concept. Once the prototype computer file is completed it can be uploaded into the CNC computer. The material – such as wood, metal or foam – is affixed to the workbench and the prototype is created.

This rapid prototyping process allows the artist or designer to experiment more easily with different shapes and forms to discover new ideas and uses for materials.

Research Outcomes

Potential research outcomes from IDS fall into three main areas:

1. Research in Inclusive Design
   - Design for our aging population including medical devices and products for the home
   - Design for the physically challenged
   - Environmental and sustainable design
2. Research in New Media and Digital Technologies
   - Interactivity
   - Gaming
   - Robotics
   - Animation
3. Prototyping for the Visual Arts
   - 3-D objects
   - Photography

Timeline

- → Ground Breaking: November 2005
- → Construction Completion: September 2006
- → Grand Opening Ceremony: December 2006

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