

# IF ONLY there were a way to...

Develop a technology using silicon-on-glass for flat panel displays.

R·I·T

## Let's do it.

CORNING

Dr. Karl Hirschman and a team of graduate and co-op students, and staff members are partnering with Corning Incorporated to develop a key future technology using a new silicon-on-glass material for flat panel displays. The technology has been in development for over three years, with fabrication taking place in RIT's Semiconductor & Microsystems Fabrication Laboratory.

The partnership involves process development, thin-film transistor (TFT) fabrication, device modeling, and correlating the device's performance with the quality of the silicon-on-glass substrate. A Sponsored Research Agreement defines the Intellectual Property details, which may be solely owned by RIT or jointly owned with Corning Incorporated, and provides Corning Incorporated with full access and the opportunity to protect the developed technology.

"We are encouraged by the work we have seen in RIT's labs regarding the development of methods to make TFTs on Corning's silicon-on-glass backplane material. The collaboration between RIT and Corning is showing promise, and is adding to the potential commercialization efforts for Corning."

David L. Morse

Senior Vice President and Director of Corporate Research  
Corning Incorporated

**RESEARCH** at RIT

# HOW does it work?

Do the materials work with the HP Indigo printer?

R·I·T

## Tested and Proven.

Suppliers need to know their materials — paper and ink — are compliant with the HP Indigo printer long before it reaches their customers. It is just as important to Hewlett Packard to have suppliers certify their materials on the HP Indigo printer. RIT's Printing Applications Laboratory, equipped with HP Indigo printers, provides the perfect facilities to test and certify these materials for suppliers.

The testing process typically takes about one week for each supplier. A simple Research Services agreement is made for each supplier RIT tests materials for. Due to the nature of the work, Intellectual Property is not an issue.

By partnering with RIT, HP is able to expand its number of suppliers certified for the HP Indigo printer.



**RESEARCH** at RIT

# IF ONLY there were a way to...

Develop a modular simulation platform for simulating antibody/antigen reactions.

R·I·T

## There is.

Ortho Clinical Diagnostics  
a *Johnson & Johnson* company

Through the Corporate R&D program, Dr. Kathleen Lamkin-Kennard and two engineering Master's students partnered with Ortho Clinical Diagnostics to provide expertise that helped to address a specific company challenge. Through the use of mathematical modeling, the team developed a modular simulation platform that could assist Ortho Clinical Diagnostics with the prediction of immunoassay results and aid in the development of next generation immunodiagnosics technologies.

The platform was developed over the course of two academic quarters (or 20 weeks) in RIT's engineering lab using simulation software.

Faculty and students agreed to release Intellectual Property to Ortho Clinical Diagnostics, but are able to publish the work and use for education and other internal research.

"The Corporate R&D program has enabled Ortho Clinical Diagnostics to do some smaller research projects that we wouldn't usually do. The program is opening doors to new research, as well as a clean-cut agreement."

Ted Farrell  
Ortho-Clinical Diagnostics

**RESEARCH** at RIT

# IF ONLY there were a way to...

Preserve the past by preventing deterioration in museum and library collections.

R·I·T

## There is.

Since 1997, the Image Permanence Institute at RIT has collaborated with the Library of Congress to evaluate the preservation quality of the library's collection storage areas and to establish a process for optimizing its environmental conditions.

High temperature and relative humidity are known to accelerate the deterioration rate of many library collection materials, including paper, parchment, leather, photographic prints and negatives, and other organic materials. To assist the Library of Congress with the management of its storage and exhibition areas, IPI developed MyClimateData, a collection information management system that presents temperature, humidity, and dew point data and rates the collection risks for each monitored location with IPI's preservation metrics.

The efficiency of LOC's preservation team has evolved dramatically over the course of our work together, extending the life of the nation's cultural heritage collections through sustainable preservation practices.



LIBRARY OF  
CONGRESS

**RESEARCH** at RIT