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UNIVERSITY **library**

Software @ SFU Library
<http://software.lib.sfu.ca>

Library2vendor: Open Source Development at the SFU Library

**Todd Holbrook
Brian Owen
Kevin Stranack**

Access 2005, Edmonton, AB

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Outline

- What is Software @ SFU Library?
- Our Changing Role
- The Technical Part

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What is Software @ SFU Library?

- Two open source software suites
- New business model
- New relationships

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reSearcher

- GODOT: Link resolving
- CUFTS: Serials management
- dbWiz: Federated searching
- Citation Manager: Bibliographic management

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Vol/Issue: 123 (6), Date: 2003, Page: 50
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PKP: Public Knowledge Project

- Open Journal Systems
- Open Conference Systems
- Open Archives Harvester

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Impact of PKP

- High profile application
- Large user base
- Not a library application
- Not an SFU-initiated project
- Partnership with PKP and CCSP

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Impact of reSearcher Version 2

- Raised software profile
- Interest from other library sectors
- Interest from other countries

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Current Partners

- COPPUL
- BC Electronic Library Network
- UBC Public Knowledge Project
- Cdn Centre for Studies in Publishing
- Université de Montréal
- University of New Brunswick
- Independent PKP developers

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Presented by **Tsinghua University**

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Beijing, China
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The 2006 Conference will focus on managerial, economic, social and cultural aspects in technology management and their influence on innovation and the creation of economic growth and prosperity. Special attention will be given to the comparison of the West and the East countries, regions and companies for successfully managing R&D, innovation, and technology. Papers, presentations and learnings will focus on best practices of each side in technology creation, development and utilization.

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Our Changing Role

- New relationships
- New funding model
- New challenges

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New Relationships

- From COPPUL to Software@SFU Library
- Development decisions made locally
- COPPUL remains our major client

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New Funding Model

- Continued support fees from COPPUL and ELN
- Sustaining future development through new clients and grants
- Free software, fee-based hosting, support, training, customization

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New Challenges

- Support agreements, pricing models
- Marketing
- Responding to RFIs
- Working with host institution
- Balancing with in-house needs

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The Technical Part

- Developing open source applications is similar to closed source development
- Lowering the barrier to entry
- Proper source code control
- Frameworks
- Miscellaneous

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The Barrier to Entry

- Prerequisites
 - Static packages
 - Bundles
 - At least list them somewhere
- Installation
 - Time limit before the user gives up
 - Automate as much as possible
 - Sensible config files
- Technical Documentation
 - Helper applications - setup notes and example configs
 - Troubleshooting notes as you solve problems

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Source Code Control

```
$ cp -r project project.2005-10-15
```

```
/repository  
  /projectA  
  /projectB
```

```
/repository  
  /projectA  
    /trunk  
    /branches  
      /COPPUL  
      /ELN  
    /releases  
      /ProjectA-1.00  
  /projectB  
    /trunk  
    /branches  
    /releases
```

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```
package Resolver;

sub parse_request {
    my ($params) = @_;

    my @requests;
    if ($params->{url} =~ /z3980/i) {
        @requests = parse_openurl10($params);
    } elsif ($params->{genre}) {
        @requests = parse_openurl01($params);
    } else {
        die("Unrecognized request");
    }
}

sub parse_openurl10 {
    ...
}

sub parse_openurl01 {
    ...
}
```

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```
package Resolver;  
  
sub parse_request {  
    my ($params) = @_;  
  
    if ($params->{url} =~ /z3980/i) {  
        my $parser = new Parser::Openurl10;  
    } elsif ($params->{genre}) {  
        my $parser = new Parser::Openurl01;  
    } else {  
        die("Unrecognized request");  
    }  
  
    my @requests = $parser->parse($params);  
}
```

```
package Parser::Openurl10;  
  
sub parse {  
    my ($self, $params) = @_;  
    ...  
}
```

```
package Parser::Openurl01;  
  
sub parse {  
    my ($self, $params) = @_;  
    ...  
}
```



```

package Resolver;

sub parse_request {
    my ($self, $params) = @_;

    my @requests;
    foreach my $parser_name (@{$self->config->{Resolver}->{RequestParsers}}) {
        my $parser_class = "Resolver::RequestParser::$parser_name";
        my $parser = $parser_class->new($self->config);
        $parser->parse($params, \@requests);
    }

    scalar(@requests) or
        die("No parsers able to process request");
}

```

```

package Resolver::RequestParser::OpenURL10;

sub parse {
    my ($self, $params, $requests) = @_;
    return if scalar(@$requests);
    return unless $params->{url} =~ /z3980/i;
    ...
    push @$requests, $request;
}

```

```

package Resolver::RequestParser::OpenURL01;

sub parse {
    my ($self, $params, $requests) = @_;
    return if scalar(@$requests);
    return unless defined($params->{sid});
    ...
    push @$requests, $request;
}

```

```

# config.yml
---
```


Resolver:

RequestParsers:

- OpenURL10
- OpenURL01

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Miscellaneous

- Upgrades
 - ALTER SQL as you make database changes
 - Patch vs. replace
 - Minimizing damage to local changes
- Testing
 - Unit Testing
 - Application Testing
- APIs / Web Services

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More Information

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