



# ***CalConnect and Open Source***

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**Prague, Czech Republic**

**November 7, 2008**

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- Gary Schwartz
  - Director, Communications & Middleware Technologies, Rensselaer Polytechnic Institute
  - Bedework Project Leader
  - CalConnect Vice President & Chair of Freebusy Technical Committee





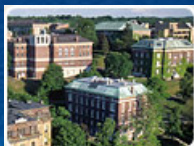
- Bedework, our open source, Java-based implementation of CalDAV
- The relationship between CalConnect and the open source movement
- RPI's reasons for joining CalConnect
- The benefits which RPI enjoys from active participation in CalConnect, both as calendar developers and as a research university



- The Rensselaer School was established in Troy, NY, in 1824 by Stephen Van Rensselaer “for the purpose of instructing persons ... in the application of science to the common purposes of life.”
- It is “...the first school of science and school of civil engineering, which has had a continuous existence, to be established in any English-speaking country.” Palmer C. Ricketts 2<sup>nd</sup> ed History of Rensselaer Polytechnic Institute (1914).











# Overview of Bedework





- Bedework is
  - a comprehensive calendaring and events system
  - open source
  - platform independent (Java)
  - modular & extensible
  - intended for higher education
  - *and...*

***STANDARDS COMPLIANT***





- iCal : RFC 2445 (2446, 2447)

<http://www.ietf.org/rfc/rfc2445.txt>

- CalDAV : RFC 4791

<http://www.ietf.org/rfc/rfc4791.txt>

- CalDAV Scheduling (in draft)
- Vavailability (in draft)

***Why? ...interoperability!***



- Database - Hibernate
- Application server
- Authentication
- Internationalization / localization
- Portal – JSR168
- Presentation
- Standards compliance
- Scalability





- Features:
  - Distributed, fine grained administration
    - Administrative groups
    - Location and contacts management
  - Access control & sharing
  - Stand-alone & portlet implementations
  - Highly customizable look and feel
  - Interoperable with CalDAV desktop clients – currently Mozilla Lightning and Apple's iCal



## *Who's Using Bedework?*

- **In production**

- Bennington College (US)
- Bishop's University (Canada)
- Cornerstone University (US)
- Dalhousie University (Canada)
- Duke University (US)
- Montana State University (US)
- Public University of Navarra (Spain)
- Queens University (Canada)
- Rensselaer Polytechnic Institute (US)
- University of British Columbia (Canada)
- University of Maine, Fort Kent (US)
- University of Maryland (US)
- University of Chicago (US)
- University of Washington (US)

- **In development**

- Brown University (US)
- Cornell University (US)
- Rutherford Appleton Lab (UK)
- Stockholm University (Sweden)
- Yale University (US)
- Others...



[illegible][illegible]

**Events @ Dal - Mozilla Firefox**

File Edit View History Bookmarks Tools Help

http://my1.dal.ca/events/showMainIndex.jsp

Dalhousie University Inspiring Minds Events@Dal

MY DAL LOGIN CONTACT

MUNIFAX, MONYA SCAL | CANADA 2014-2015 | (+1) (902) 494-2211

KEYWORD: FILTER

EVENTS @ DALL  
TODAY'S EVENTS

DAY	WEEK	MONTH	YEAR	FABRIC	FEED	SUBMIT
<b>Monday, June 4, 2007</b>						
Jun 4 - Jun 12	1	June	2007			
SIMPLY ACCOUNTING 2006 Level 1, Killam Library, Basement Details   Download						
<b>Tuesday, June 5, 2007</b>						
Jun 4 - Jun 12	2	June	2007			
SIMPLY ACCOUNTING 2006 Level 1, Killam Library, Basement Details   Download						
ACCOMMODATION & Introduction, Killam Library, Basement Details   Download						
INSERO Research Partnership Programs, Kinnear C. Rowe Building, Room 1016 Details   Download						
Working with the Gradebook, Killam Basement B200 Details   Download						
<b>Wednesday, June 6, 2007</b>						
Jun 4 - Jun 12	3	June	2007			
SIMPLY ACCOUNTING 2006 Level 1, Killam Library, Basement Details   Download						
Jun 6 - Jun 7	4	June	2007			
ACCES 2003 Level 1, Killam Library, Basement Details   Download						
10:00 AM - 12:00 PM	5	June	2007			
BLS Fundamentals, Killam Basement B200 Details   Download						
12:00 PM - 2:00 PM	6	June	2007			
BLS Fundamentals, Killam Basement B200 Details   Download						
2:00 PM - 3:00 PM	7	June	2007			
Classroom Performance System (CPS), Killam Basement B200 Details   Download						
<b>Thursday, June 7, 2007</b>						
Jun 4 - Jun 12	4	June	2007			
SIMPLY ACCOUNTING 2006 Level 1, Killam Library, Basement Details   Download						
Jun 6 - Jun 7	5	June	2007			
ACCES 2003 Level 1, Killam Library, Basement Details   Download						
10:00 AM - 11:30 AM	6	June	2007			
Course Content Authoring Introduction to Dreamweaver, Killam Basement B200 Details   Download						
12:00 PM - 2:00 PM	7	June	2007			
BLS Fundamentals, Killam Basement B200 Details   Download						
12:00 PM - 1:30 PM	8	June	2007			
Parents as Career Coaches, Student Union Building, room J07 Details   Download						
2:00 PM - 3:30 PM	9	June	2007			
Live Classroom (Admin-ed), Killam Basement B200 Details   Download						

Navigation: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

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[http://bedworktestfor.at.cornell.edu/main/showMain.cfm?c=1](#)

**Cornell University**

[Pages](#) [People](#) [More options](#)

[Admission](#) [Academics](#) [Research](#) [Outreach](#) [Local Grant](#) [Student Life](#) [Alumni](#)

## Events Calendar

Showing all events at any time on **Mon day, March 24, 2008** « Mar 23 » Mar 25 »

March 2008						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	28	29	30	31		
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

day **month** [month](#)

[today](#) [calendar](#)

+ show XML  
 + refresh XML

**Search events:**  
 with keywords in title,  
 description, or location

restricted to categories:

- ☐ Athletics
- ☐ Lectures/Seminars
- ☐ Conferences/Workshops
- ☐ Theater/Dance
- ☐ Exhibits

**This was just a Test Event (2003)**

03/14/08 - 03/14/08, all day | Exhibit | Location unspcified

**The Rise and Fall of the Abolition Movement (2003)**

03/16/08 - 03/16/08, all day | Exhibit | The Commons

**She Sells Seashells by the Seashore**

03/16/08 - 03/16/08, all day | Exhibit | Location unspcified

**Test Event IV - DPS**

today, 12:00 AM - 12:00 AM | Roundtable | No Plans

**CCAB: Scheduled Test Day (15)**

today, 8:00 AM - 7:00 AM | CCAB Scheduled Change | Location unspcified

**Campus Tour**

today, 9:00 AM - 9:00 AM, 9:05 AM - 9:05 AM, 9:05 AM - 9:05 AM, 9:10 AM - 9:10 AM | Tour | Location unspcified

**DPS - Recurring event text - Master Calendar**

today, 12:05 PM - 1:00 PM | Roundtable | No Plans



Bedework: 個人カレンダークライアント

http://localhost:8080/ucal/main/showMain.rdo

calendar bedework

個人カレンダー

公開カレンダー | 名古屋大学ポータル | リンク | ヘルプ

2008年4月1日 - 2008年4月30日

1個のイベントを追加しました.

ビュー: DAY WEEK MONTH YEAR ログインユーザ: caladmin ログアウト

2008年04月

検索: [検索欄] [実行] [FREE/BUSY] [LIST] [REFRESH]

日曜日	月曜日	火曜日	水曜日	木曜日	金曜日	土曜日
		1	2	3	4	5 (祝日) 入学式
6	7	8	9	10	11	12
13	14	15 0:00: 数学1及び演習	16	17	18	19
20	21	22	23	24		
27 (祝日) JA-SIG 2008	28 (祝日) JA-SIG 2008	29 (祝日) JA-SIG 2008	30 (祝日) JA-SIG 2008			

名古屋大学キャンパスイベントサービス (実装中)

Bedework ウェブサイト | XML を表示 | XSLT をリフレッシュ

オプション:

- カテゴリを管理
- 場所を管理
- 設定
- ICAL をアップロード
- カレンダーをエクスポート

購読:

- 購読なし

カレンダー:

- calendar
- Inbox (1)
- Outbox

イベントを追加 | ミーティングをスケジューリング | タスクを追加 | タスクをスケジューリング | アップロード





# bedework.org



# Open Source





*I'm a programmer*



- not a bricklayer
- not a psychiatrist
- not an escalator
- not a mechanic
- not an engineer
- not a coal miner

Or

An open source theorist



- <http://www.opensource.org/docs/osd> (Open Source Initiative)
  - The 'open source' label was invented February 3rd, 1998 in Palo Alto, California
  - Wanted an alternative to "free software"
  - 'Open source' coined by Chris Peterson
  - Open source doesn't just mean access to the source code. The distribution terms of open-source software must comply with the 10 enumerated criteria





- Product provenance
- Licensing terms
- Support
- Governance
- Sometimes east meets west - like when Georgia Tech integrated Zimbra (proprietary version) into Sakai (open source) using CalDav, facilitating future integrations, open source or otherwise.



- Open source is inherently neither better nor worse than other software development or distribution models
- Open source provides another option, representing a different value proposition





# Bedework

## The Open Source Project



*"Whereas many university people enjoy a spiritual affinity for open source software, our interest is more pragmatic. As a campus-wide development group, technologies and products with no license or usage fees are critical to providing solutions which can be deployed with impunity. Our web foundation is largely built atop products and technologies which have no usage fees, allowing us to deploy as many instances, servers, CPU's, etc as necessary."*

*RPI relies heavily on and benefits from open source software but seldom contributes to open source. We believe this contribution will enhance Rensselaer's reputation in the area of software development."*





- Bedework's preoccupation with standards and interoperability is in large part recognition that in many organizations, **Bedework is unlikely to be the only calendaring product in an enterprise.**
- The ability to share and exchange data with other calendaring products and environments is an important key to Bedework's future well-being as a product and a project.



- Standards compliance is the key to Bedework's success - but
  - potentially useful features that are not standards compliant impede interoperability.
  - We could be more ingenious but sometimes no way to have our standards cake and eat it too.
  - The heart wants what it wants.





# CalConnect And Open Source



- CalConnect vendor members
  - Proprietary only
  - Open source only – Bedework, Mozilla, OSAF
  - Dual mode – Apple, Zimbra
  - Mixed – Google, IBM, Oracle, Sun, Symbian/Nokia, Microsoft





- The world is flat – open source, proprietary source, no source – everyone is equal partner
- Sometimes open source organizations have more flexibility and agility and fewer constraints to participate, to speak publicly



1. Open source reference implementations are extremely critical in achieving adoption of open standards for software interoperability.
2. Standards organizations are the only way to get a level playing field w.r.t new open source applications for learning – that won't happen unless the open source projects/communities participate.

<http://blog.worldcampus.psu.edu/index.php/2007/09/19/open-source-and-open-standards/>





- Join CalConnect to add adopters?  
Unlikely. More likely to find  
collaboration partners than customers
- CalConnect members generally get “it”  
when “it” = “open source”.
- CalConnect vendor members generally  
get “it” where “it” = good products  
benefit from interoperability, becoming  
stronger, more marketable products.



- In "Dreaming in Code", Scott Rosenberg referring to Eric Raymond's "The Cathedral and the Bazaar" said, "Raymond identified 2 key prerequisites ...the rise of a cooperative ethos built around a leadership style like Torvald's that encouraged newcomers and welcomed contributions, and strove to maximize the number of qualified participants"

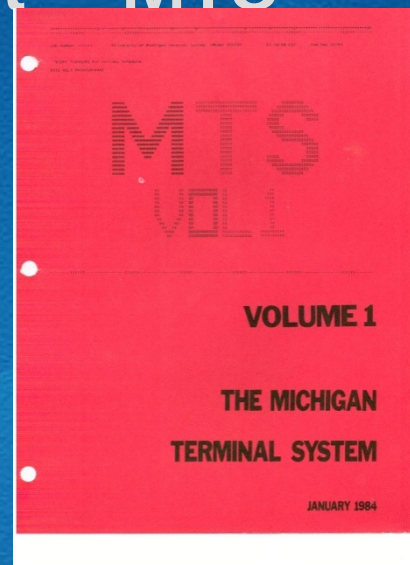




# Why We Joined CalConnect



- We have history of collaborative (but not OSS) software development – MTS
- We have a history of working with high quality people – MTS
- We saw first-rate people doing exciting work and we wanted to be part of it.







## *Why we really joined*

- We were showing off as observers at a CalConnect Roundtable, and had to join to save face.



**What RPI gets from  
participation in  
CalConnect, both as  
calendar developers and  
as a research university**





- And, in the end, the love you take/ Is equal to the love you make
- **Active participation in CalConnect**
  - Chair FREEBUSY Technical Committee
  - Chair Timezone Technical Committee
  - iSchedule, CalDAV Technical Committees
  - Publicity Committee
  - Steering Committee
  - Board of Directors



- CalConnect has many research university members. Getting together with like institutions to discuss C&S and other topics of mutual interest.
- Interoperability Test Events are invaluable
- Influencing/informing standards is useful, and a responsibility





- We believe in interoperability and open standards – CalConnect promotes both