The Bedework Enterprise Calendar System

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calendar bedework

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Who We Are

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Rensselaer CIO

Tell 'em what you're gonna tell 'em

- Intro to RPI
- Bedework vision,
- Intro to Bedework
- Bedework demo
- Q&A

Rensselaer History

- Established 1824 in Troy, NY "for the purpose of instructing persons … in the application of science to the common purposes of life."



Rensselaer

Rensselaer History



- 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 2nd ed History of Rensselaer Polytechnic Institute (1914).

Rensselaer Today

- Rensselaer Polytechnic Institute
- Troy, New York
- Ranked 41st
- 2007 Total enrollment: 7,299









What is Bedework?



What Is Bedework?

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

STANDARDS COMPLIANT

A Calendar System for Higher Ed

- Low "buy-in" cost
  - Integrates with extant campus directories
  - Integrates with extant campus authentication
  - No license or usage fees
  - Works with a number of database systems
  - Distributed administration
  - Easily skinned
- JSR-168 (portal) "friendly"

A Calendar System for Higher Ed

- Used and developed by multiple universities
- No *-isms
  - What's good for higher ed as a whole is good for Bedework

A Calendar System for Higher Ed

- Assume not the only calendaring system on campus
  - Access server with "non-native" client
  - R25, Exchange, Oracle calendar, etc.
  - Design point is to promote interoperability between systems

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 Chicago (US)
  - University of Maine, Fort Kent (US)
  - University of Maryland, College Park (US)
  - University of North Carolina at Chapel Hill (US)
  - University of Washington (US)
  - Yale University (US) & Others...
- In development
  - Brown University (US)
  - Cornell University (US)
  - Rutherford Appleton Lab (UK)
  - Stockholm University (Sweden)
  - Others...
- Deployment
  - stand-alone system
  - portlet or proxied portlet
    - uPortal
    - LifeRay
    - PlumTree (BEA)

Total Calendaring System?

- A "Total Calendaring System" must meet all the following needs and more:
  - personal / group / public events calendaring
  - interoperable calendaring
  - shared calendars
  - scheduling
  - events publication / event submission
  - subscriptions / event pool
  - multi-language support / internationalization
  - structured venues / contacts, sponsors / etc.
  - much, much, more …
- Priorities driven by **standards requirements & user feedback**

Interoperability is a core value!

- **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.

What a long strange trip it has been

- "Even before the Smart Grid conference started, I was talking to new people bringing their skills and knowledge to the problems of energy. Last night, I spoke for a long time with **Greg Schwartz of CalConnect** on the problems of coordinating activities across our daily lives, whether class schedules or energy prices, whether building systems or industrial operations."

Toby Considine - http://www.newdaedalus.com/

W2C – The World Wide Calendar

W2C

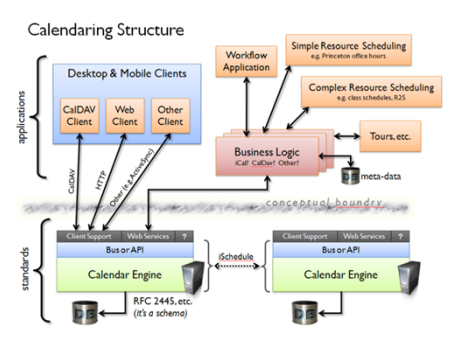
- Federated / cloud / aggregation
- Workflow, Authentication, Discovery
- Social networking
- Semantic Web
- Handheld / mobile
- Massive scalability
- Pervasive internationalization / localization
- Event aggregators / harvesters

Calendaring as a Platform

- Start with calendar data and server / store API
- Can support traditional calendar clients
- Enable consumer calendar data (e.g. web portal widgets)
- Different protocol stacks on top provide flexibility and interoperability between calendar applications
- Extensible calendar services and APIs



Another view



For example - Sakai

- GT/Sakai/CalDAV
  - Opens Sakai's native calendaring capability to external CalDAV-based calendaring systems, such as Zimbra or Bedework
  - Groundbreaking in what it attempts to accomplish and what it suggests
    - We should all program within our core competencies, and augment with software produced by those with other competencies

For example - Jiscmail

- JISCMAil @ Rutherford Appleton Labs
  - Science & Technology Facilities Council
  - National Academic Mailing List Service
- Integrating calendaring with massive mailing list service

For example – Historical data

- Calendaring as research interface into historical collections
  - Google maps has shown new perspectives are realized when you look at information from a geographical standpoint
  - A calendar view of a research collection might offer another new view
  - Dimension of date could reveal connections in time missed in more traditional approaches
  - Analogous to Tufte: *The Visual Display of Quantitative Information*
- *15 miles (or more) on the Erie Canal*

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Examples

- SmartGrid – http://nist.gov/smartgrid
  - Buildings use 46% of energy consumed in North America and ½ of the electricity is wasted due to poor alignment of generation and consumption
    - Basic enterprise interaction is room schedule and # people related to energy consumption
    - Need to integrate calendar and resource systems with building management systems, power negotiation, weather arbitrage
  - Requirement for consumption of calendar information via web services

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For Example - ticketing

- Ticking system for RPI's Experimental Media and Performing Arts Center used Bedework as central component
  - Allows users to register, request tickets, and build an event agenda
  - Event data exported for outboard reporting, analysis and ticket printing
  - Exploits calendar as application platform
    - All event information stored in Bedework
    - Incorporated into registration system, EMPAC Opening website, and a calendaring site for mobile (handheld) devices

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Bedework is now a Jasig Incubating Project



- Bedework has broader appeal as a foundation-based project.
- The Bedework community has outgrown RPI's stewardship.
- Jasig's relationship with solutions providers increases the likelihood of commercial support.
- Jasig's relationship with other OSS foundations increases the likelihood of collaborations.
- Bedework is more sustainable as a Jasig project.
- Because, *it's time to take this step.*

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Jasig - The Bottom Line

- Jasig sponsorship for Bedework will allow us to meet the requirement that we set forth almost six years ago when we joined the UW Calendar project, to make a lasting contribution to open source and higher education.

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"I dream of things that never were, and ask why not?"

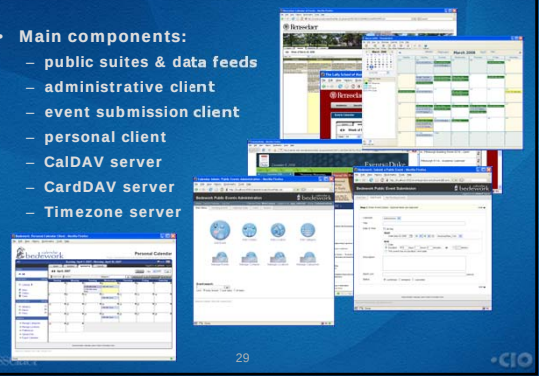
- Bedework and Sakai
- Bedework and Foodle
- Bedework and phpScheduleIt
- Agenda builders
- Office hours
- Building hours
- Bedework and conference registration
- Bedework and ???

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Bedework System Overview

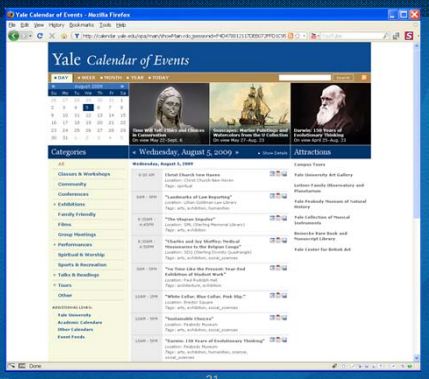
Bedework Components

- Main components:
  - public suites & data feeds
  - administrative client
  - event submission client
  - personal client
  - CalDAV server
  - CardDAV server
  - Timezone server

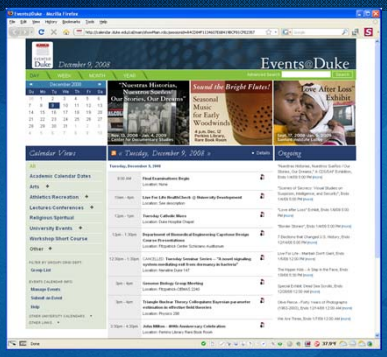


Some Examples...

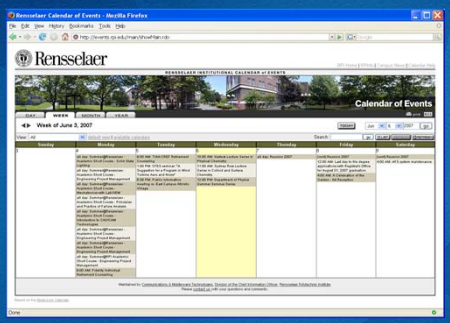
Yale



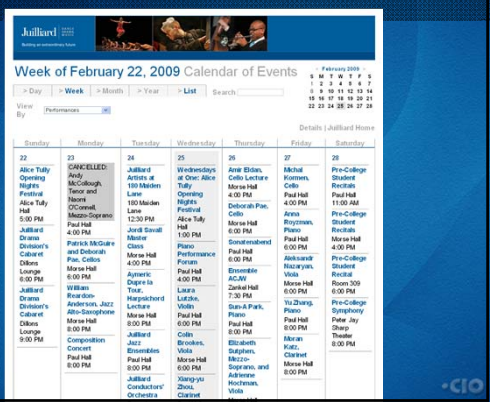
Duke



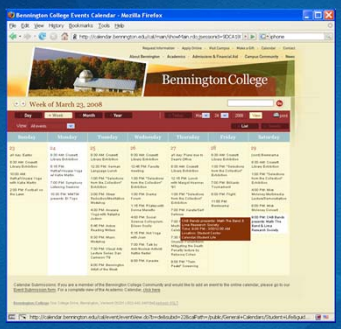
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Juilliard

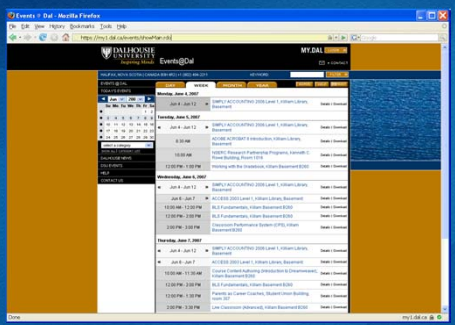


Bennington



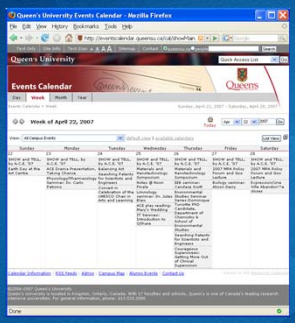
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Dalhousie

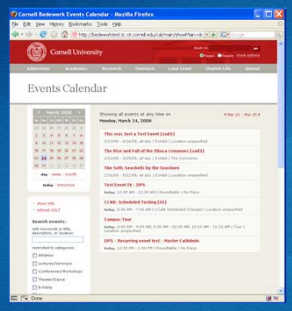


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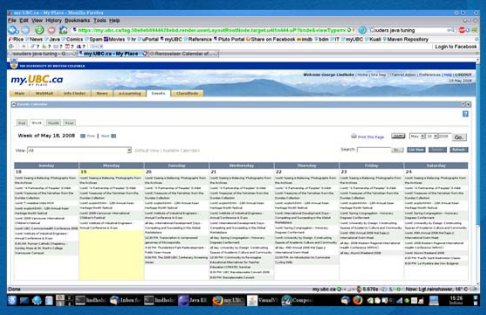
Queens



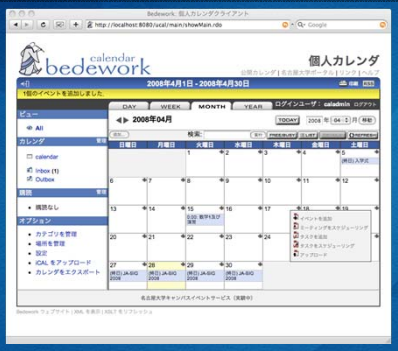
Cornell



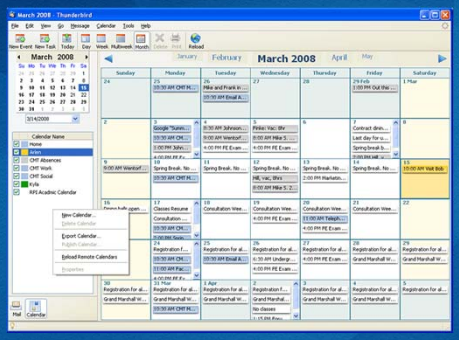
UBC



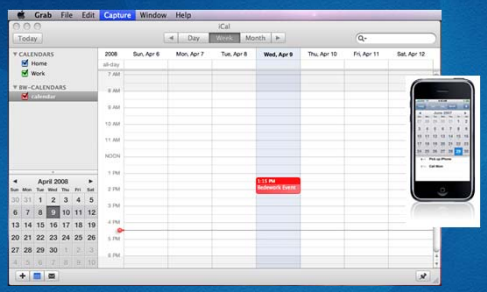
Nagoya University, Japan



Mozilla Lightning

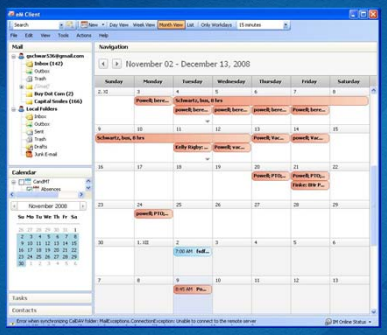


Apple's iCal & iPhone

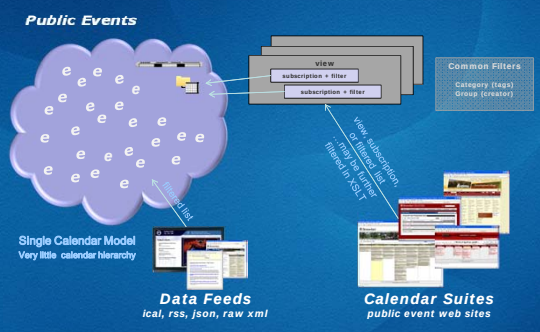


See http://www.bedework.org/trac/bedework/wiki/BedeworkManual/v3.5/UserGuide for instructions on using Bedework with Mozilla Lightning or Apple's iCal

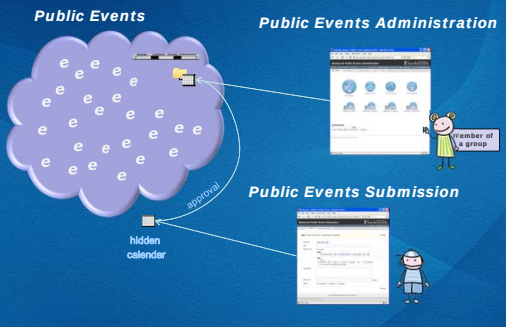
eM Client



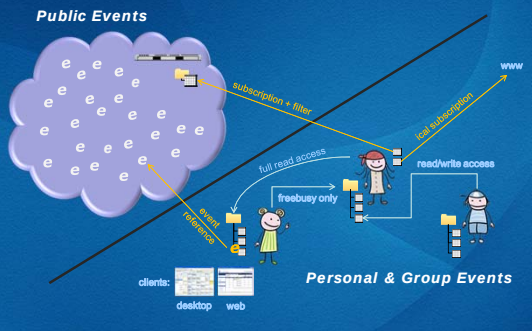
Bedework Event Pool



Bedework Event Pool

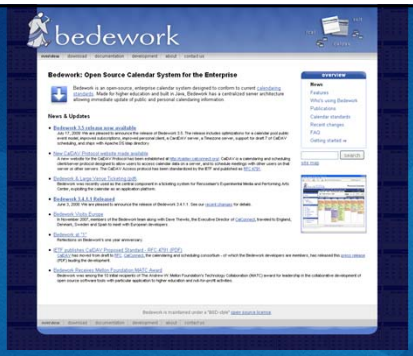


Bedework Personal Calendaring



Bedework 3.6

- Internationalization
- CardDAV more fully used
  - rich location information
  - contacts
- Duke / Yale skin part of release
- Revitalized mobile skin



bedework.org

Demonstration

