



Tetherless World

http://tw.rpi.edu/

RPI MAP

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Motivating Problems

What events will EMPAC host today?

Where I can find on-campus show?

WE HAVE PARTY AT HOUSE



Solution:

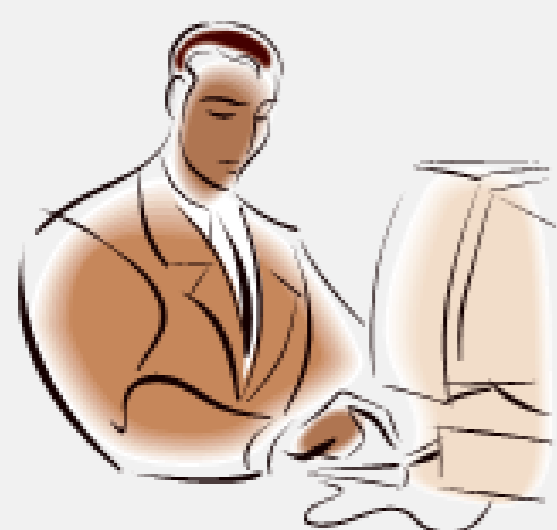
Semantic Wiki + Google Map

http://map.rpi.edu

- **Data Acquisition:** Human (using form) + External Sources(using mediators).
- **Data Storage:** Data is stored in wiki templates and parsed into RDF triples.
- **Data Presentation:** Map rendering from results of semantic queries.

Data Acquisition

Input Form



Publisher

Add an event

You have to log in to edit pages.
Bold items are required.

Use this form to add or edit an event

Event title:

Event start time: February 2009 00:00

Event end time: February 2009 00:00

Event building:

Room:

Event type:

Event related to:

Description:

External Data Sources

Rensselaer Events Calendar

Thursday, March 19, 2009

[Consultation Week, Advisement for Fall registration - Mon, March 16, 2009](#)
Monday, March 16, 2009 12:00 AM

Mon, March 16, 2009 12:00 AM - Fri, March 20, 2009, 12:00 AM Campus-wide. Students

[Lecture: Steve Davis, Founder, EcoEquilibrium "Social Entrepreneurship and the](#)
Thursday, March 19, 2009 10:00 AM

Thu, March 19, 2009 10:00 AM - 10:00 AM Sage Building. Lecture Series in Social Entrepreneurship, March 19, 2009 LOCATION: SAGE LABS 4112 TIME: 10:00 AM Sponsored by the Office of

[AAW Master of Ceremonies Try Outs - Thu, March 19, 2009](#)
Thursday, March 19, 2009 6:00 PM

Event (RSS)

33364	CSCT-2300-01	DATA STRUCT & ALGORITHMS LAB	LEC 4	M	R	12:00	1:50PM	Das	DABR21 33	1A2L2 104
32049	CSCT-2300-02	DATA STRUCT & ALGORITHMS LAB	LEC 4	M	R	12:00	1:50PM	Das	DABR21 33	SAGE 4715
33206	CSCT-2300-03	DATA STRUCT & ALGORITHMS LAB	LEC 4	M	R	12:00	1:50PM	Das	DABR21 33	1A2L2 104
32029	CSCT-2300-04	DATA STRUCT & ALGORITHMS LAB	LEC 4	M	R	12:00	1:50PM	Das	DABR21 33	1A2L2 104
32023	CSCT-2400-01	MODELS OF COMPUTATION LAB	LEC 4	M	R	10:00	11:50AM	Driscoll	LOW 4050	
32146	CSCT-2500-01	COMPUTER ORGANIZATION LAB	LEC 4	T	F	10:00	11:50AM	Das/Tereaco	SAGE 3303	

Course

```

BEGIN:VCARD
VERSION:2.1
N:Bao;
FN:Jie Bao
NICKNAME:Jie
ORG:Rensselaer Polytechnic Institute;Computer Science
TITLE:Post-Doc Research Associate
TEL;WORK;VOICE:
ADR;WORK;ENCODING=QUOTED-PRINTABLE:;MINNSLOW BUILDING Tetherless World Const.
LABEL;WORK;ENCODING=QUOTED-PRINTABLE:+00=MINNSLOW BUILDING 2nd fl=00=04110 8
URL;PERSONAL:http://www.cs.rpi.edu/~baojie
URL;WORK:
END:VCARD

```

People (vCard)

```

<markers>
<marker name="Bus 94" lat="42.73814" lng="-73.68342" speed="0" dir="190" status="Stopp
<marker name="Bus 95" lat="42.73853" lng="-73.6835" speed="1.18061" dir="180" status=
<marker name="Bus 93" lat="43.01214" lng="-74.2967" speed="0" dir="30" status="Stopp
<marker name="Bus 92" lat="42.7392" lng="-73.68377" speed="0" dir="190" status="Stopp
<marker name="Bus 97" lat="42.73892" lng="-73.68387" speed="0" dir="180" status="Stopp
<markers>

```

Shuttle

Data Storage

Template

```

padding: 0.2em; left: clear; right: text-align:left; "
style="text-align: center; background-color:#ccccff;" colspan="2" |<big>Event Info ( [[Special
]]
]]Name
]] [[has title:((event title|((PAGENAME)) )]]]]
]]Start time
]] [[has start time:((event start time))]]
]]End time
]] [[has end time:((event end time))]]
]]Building
]] [[has location:((event building))]] ({{#if: ((room)) |,room [[has room:((room))]]}}
]]Event type
]] ({{#if: ((event type)) | ({{arraymap:((event type)}}:|xxxx|[[Category:xxxx|xxxx]]) }}
]]Part of
]] ({{#if: ((event relation))|[[has relation:((event relation))]]}}
]]

```

RDF DB

Facts about RSSEvent00000771

Has end time 19 March 2009 22:00

Has location DCC

Has room 308

Has start time 19 March 2009 20:00

Has title Adventureland

Wiki DB

```

[[ShowEvent
event title=Adventureland
event start time=Thu, March 19, 2009 8:00 PM
event end time=Thu, March 19, 2009 10:00 PM
event building=DCC
room=308
event type=Event
description= Free, FREE SNEAK PREVIEW of the upcoming movie ADVENTURELAND, and Wednesday between 5 and 7pm.
]]

```

Data Presentation

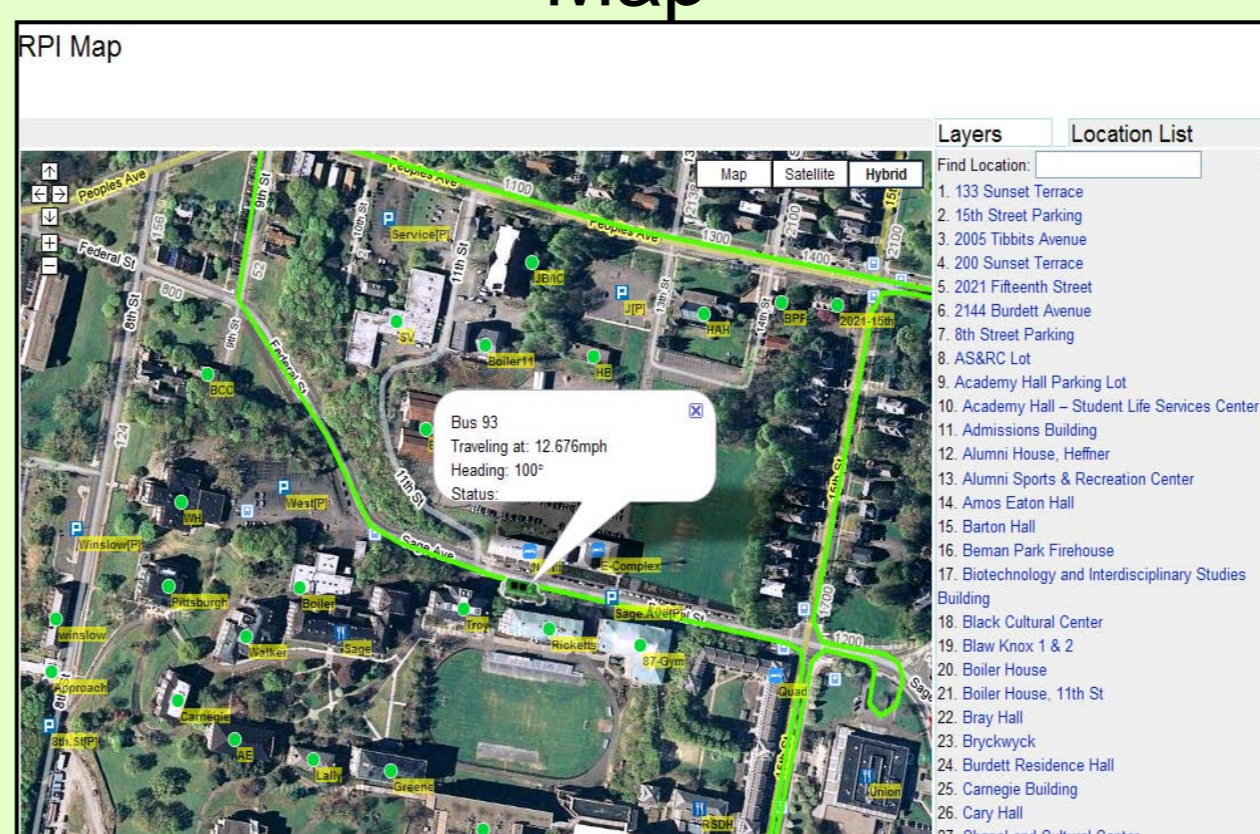
Map

Semantic Query

```

{{#vardefine: a
|{{#ask: [[Category:Event]] [[has end time::> {{LOCALMONTHNAME}} {{LOCALDAY}},{{LOCALYEAR}} 00:00
|? has location=|mainlabel=-|link=none]]}}
}}
{{#map_objects:
|{{#ask: [[Has alias:{{#var:a}}]]
|?Has LatLong |?Has URL |?Has short name |?Has service?FOAF:page |limit=200|link=none}}|0}}

```



User