Workshop on Information Integration

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Preliminaries

- Important people to know
  - Tara Betterbid (hotel, logistical arrangements)*
  - Sarah Cohen-Boulakia (my wingwoman)
  - Olivier Biton (technical and website development)

- What you should have received
  - Folder, informal proceedings
  - Handouts of talks will be made available on registration table, whenever possible

- Schedule

*Also a fabulous R&B singer.
Resurgence of interest in Information Integration

- Major focus of VLDB 2006
- IIWeb (WWW 2006)
- Workshop on Information Integration in Healthcare Applications (EDBT 2006)
- Semantic Information Integration on Knowledge Discovery (SIIK 2006)
- Workshop on Exchange and Integration of Data (EID06)
- …. 
But information integration isn’t new…

- 1970’s: Internet and database development.
- 1980’s: Multibase, …
- 1990’s: Tsimmis, Kleisli, Garlic, Information Manifold…
- 2000’s: GAV/LAV/GLAV, Piazza, Orchestra, Data Spaces, Mashups,…; move from the lab to the commercial arena (EII, EAI ).
- We are in the “teenage years” of information integration.

* “Data Integration: The Teenage Years” (Halevy, Rajarman, Ordille)
The beginning of a “golden” age (Jhingran)

<table>
<thead>
<tr>
<th>Innovation</th>
<th>Deployment</th>
</tr>
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<tbody>
<tr>
<td>Irruption</td>
<td>Synergy</td>
</tr>
<tr>
<td>Frenzy</td>
<td>Maturity</td>
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<tr>
<td>Crash</td>
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1. **The Industrial Revolution**
   - Year: 1771
   - Events: Repeal of Corn Laws opening trade

2. **Age of Steam and Railways**
   - Year: 1829
   - Events: Standards on gauge, time, Catalog sales companies, Economies of scale

3. **Age of Steel, Electricity and Heavy Engineering**
   - Year: 1875
   - Events: Separation of savings, investment banks, FDIC, SEC

4. **Age of Oil, Automobiles and Mass Production**
   - Year: 1908
   - Events: Build-out of Interstate highways, IMF, World Bank, BIS

5. **Age of Information and Telecommunications**
   - Year: 1971
   - Events: Current period of Institutional Adjustment

Source: “Technological Revolutions and Financial Capital, Carlota Perez, 2002 Slide courtesy of Anant Jhingran

Around Web Style of Architectures
Purpose of Workshop

- A **report** which draws national attention to the major challenges in information integration and the required long-term research, engineering and development that will be required to advance the state of the art and state of practice.

- **Questions to answer:** What is the current state of the art? What is the current state of practice? What are solved and unsolved hard problems? What are the challenge domains? What promising approaches are emerging? What community infrastructure is needed and what testbeds are available for researchers and practitioners?