

Computing Research Association

Conference at Snowbird 2000



Slides from a workshop
on the topic of

“Joint Academic/Industrial Workshop:
Models for University Venture
Capital/Incubation Initiatives”

presented by

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<http://www.cra.org/Activities/snowbird/00/wk2-1.html>

Internet Technology Innovation Center



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Four-point Mission



- ◆ Nurture entrepreneurial environment for IT and Internet-based companies
- ◆ Develop the fundamental hardware/software infrastructure for a knowledge-based economy
- ◆ Accelerate deployment of high-speed and mobile network access, and especially electronic commerce applications
- ◆ Expand our globally-competitive, high-skill workforce that supports Internet-based products and services

1. Infrastructure R&D

- ◆ Work with federal, state, or industry
- ◆ Internet infrastructure
 - ◆ fiber optics - aircraft strain gauge
 - ◆ wireless - we own a slice of the FCC spectrum
 - ◆ LMDS - 155 Mbps wireless
 - ◆ cell phones - safe antenna
 - ◆ Internet engineering - router & protocol design
 - ◆ Net.Work.Virginia - schools & government
 - ◆ VirginiaLink - private industry



2. Applications R&D

- ◆ Internet applications
 - ◆ electronic commerce - e-business villages
 - ◆ distance learning - 400 courses
 - ◆ DL evaluation - is it effective?
 - ◆ digital libraries - PhD dissertations from 12 universities
 - ◆ multimedia - kiosks for county government
 - ◆ public service web software - searchable databases, electronic survey system
 - ◆ e-government - survey of voters
 - ◆ medical - teach laporoscopic surgery



3. *Education and Outreach*

◆ Education

- ◆ technology-rich university courses
- ◆ technology short courses for public
- ◆ on-line courses
- ◆ digital libraries of technology subjects
- ◆ “just-in-time” education for company
- ◆ annual Virginia Internet Technology conference



4. *Industrial Partnerships and Public Service*

- ◆ Rapid response team
 - ◆ analyze a company's problems
 - ◆ recommend solutions
 - ◆ provide customized education
 - ◆ develop rapid prototypes
 - ◆ deliver commercial-grade products and services
 - ◆ American Woodmark



First Year Results



- ◆ Assisted 105 companies
- ◆ R&D contracts with 29 companies, \$1M
- ◆ 4 government contracts, \$3 M
- ◆ 15 professional seminars given
- ◆ Licensed survey software to a company
- ◆ Virginia Internet Technology conference

Interaction with Companies



- ◆ Co-fund industrial sponsorship of R&D
- ◆ Participate on corporate technical advisory boards
- ◆ Science/engineering vs. business students
- ◆ Advisor to various business incubators
- ◆ Encourage patent and copyright licensing by allowing faculty to participate monetarily
- ◆ Encourage our entrepreneurial faculty to form start-ups
- ◆ Spinner Technologies - university incubator

Future is Bright



- ◆ Excellent acceptance from Virginia industry
- ◆ Consulted with 35 companies in past year
- ◆ Strongest demand is for
 - ◆ business strategy, esp. electronic commerce
 - ◆ design and implementation of novel web systems
 - ◆ communications infrastructure, esp. wireless
 - ◆ professional seminars on leading-edge topics