

Technology Petting Zoo

SLA Annual Conference 2005 in Toronto

**Hope N. Tillman, Director of Libraries
Babson College, Wellesley, MA
June 6, 2005**

Thank you to:

Our Sponsors: [Factiva](#), [ACM](#), [IEEE](#)

Our SLA Unit Co-sponsors:

Physics-Astronomy-Math Division

Biomedical & Life Sciences Division

Engineering Division

Science & Technology Division



Scope of this session

- **Concept of the petting zoo**



Scope of this session

- **Concept of the petting zoo**
 - **It has animals you want to see**



Scope of this session

- **Concept of the petting zoo**
 - It has animals you want to see
 - You can touch them
 - You can interact with them



Scope of this session

- **Concept of the petting zoo**
 - It has animals you want to see
 - You can touch them
 - You can interact with them
 - **You have fun**
 - **You learn something**



The game plan

- **Share what and how we are using “technology toys”**
- **What does it mean that the word on the street is that the PDA is dying?**
- **Are we converging, specializing or both?**
- **What’s it all about?**
- **Have fun and learn**

Underlying themes: user control, digital collaboration

Some of today's gadgets

- **PDA**
- **Tablet, downsized laptop, ultra personal**
- **Cell phone, Smart phone**
- **Jump drive**
- **MP3 player**
- **GPS device**
- **Digital camera**
- **Pocket scanner and SuperPen**
- **Game machine**
- **Smart watch**

What toys do you have with you?

- **PDA**
- **Tablet, downsized laptop, ultra personal**
- **Cell phone, Smart phone**
- **Jump drive (USB drive, fit key, dexit)**
- **MP3 player**
- **GPS device**
- **Digital camera**
- **Pocket scanner and SuperPen**
- **Game machine**
- **Smart watch**

PDA/Handhelds

- PalmOne Tungsten, LifeDrive
- HP IPAQs
- Mitac Mio 168
- Dell Axim X30



- Convergence is changing the products
- PDAs are still part of the mix



Morphing the name of the PDA

- **Palm or Pocket PC**
- **Personal Digital Assistant (or PDA)**
- **Handheld**
- **Mobile Media Companion**
- **Mobile Portable Media Center**
- **Entertainment Center**
- **Ruggedized handheld**
- **Pocket PC Phone (or Palm Phone)**

Tablets to Ultra Personals

Consider:

- Thickness
- Weight
- IBM Thinkpad X41 Tablet
- Nokia N770 Internet Tablet
- Vaio's U Ultra Portable (1 lb)



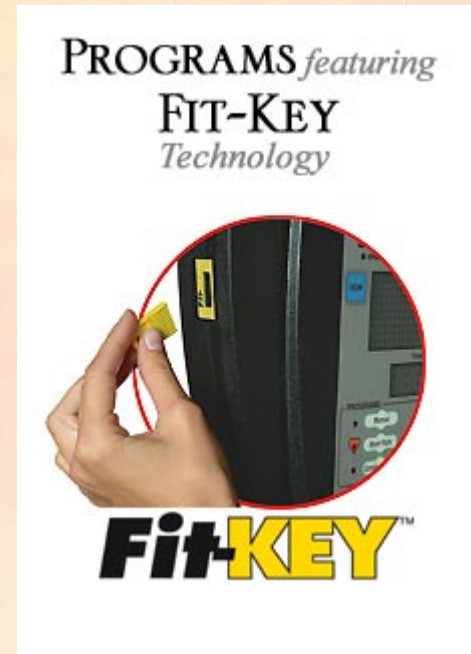
Smart phone/Multimedia mobiles

- **PalmOne Treo 650**
- **Nextel i860**
- **Sanyo MM-5600**
- **LG VC 8000**
- **Samsung SGH-P777**
- **Nokia 7280, 7710, 9300**
- **Blackberry**



Jump drives and other chips

- Thumb drive, jump drive
- Flash memory chip
- Fitkey
- Dexit
- SanDisk BookLocker

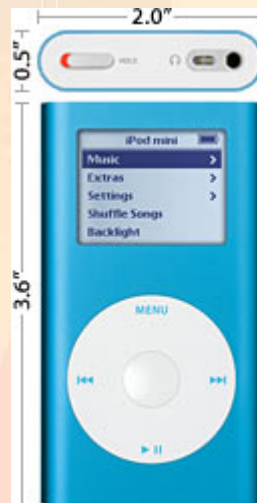


The iPod Family

“If you want to design services for a technology that is actually being used, look to iPods.”

**Michael Stephens. The iPod Experiments.
NetConnect. Spring 2005,**

Duke story of IPOD use



Other Popular MP3 players

- **Sony Network Walkman (harddrive)**
- **iRiver N10, H10, H340**
- **Rio Carbon, Carbon Pearl, Forge Sport**
- **Creative Zen Micro, Touch**
- **MuVo TX (digital audio with FM radio)**

It's all about AUDIO: Music, Spoken word, Podcasts

Attendee recommendation:

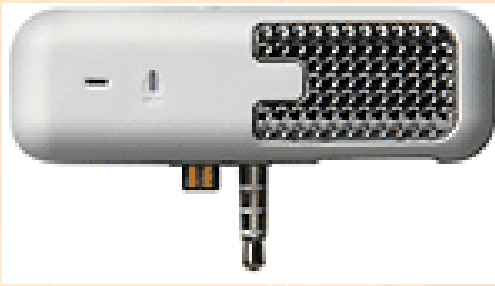
<http://sourceforge.net/projects/audacity/>

for a fast open source multi-track audio editor and recorder. It looks great.



Digital voice recorder

- Ipod MP3 recorder
- Panasonic RR-QR240
- Olympus DM-20 USB Interface Digital Voice Recorder w/ MP3 and WMA music playback -



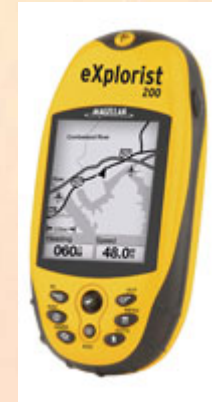
- Tradeoffs between MP3 player-recorder combination versus separate



GPS device

- **Magellan Explorist**

<http://www.magellangps.com>



- **Garmin GPSMap 60CS**



At program there was discussion of GPSes for GeoCaching and GeoDashing and other such games.



Digital Cameras

It's all about what you want to do!

**Canon | Casio | Epson | Fujifilm |
HP | Kodak | Konica
Minolta | Leica | Nikon | Olympus |
Panasonic | Pentax | Sony**



After the presentation one of the attendees raised the issue of privacy and concerns from those who do not want their pictures taken for a variety of reasons



Digital camera



June 1, 2005 – PDNOnline
(via Gizmodo blog)

David Schloss.

The Mamiya ZD: Hands-on with the most interesting digital ever.

“We talked about the 22-megapixel Mamiya ZD quite a while ago and PDNOnline has finally gotten their hands on an early model. Not quite an SLR and not quite a digicam, this "bullpup" design monster accepts auto-focus lenses and has a shutter speed of 1.5 fps. Other nice features include dual memory card slots and simultaneous RAW and JPEG recording.

They had some complaints: the early UI is rough and the LCD is too small, but a 22-megapixel camera that is smaller than any standard SLR we've seen thus far is an impressive feat.”

Pocket scanners (Reading pen)

Wizcom Technologies
SuperPen Professional Mobile Scanner



Quicktory Elite

Mobile language translation tool for travelers, professionals working in a foreign language and students of ESL. Combines language translation with English definitions



Digital Pen (Drawing pen)

Logitech io2 Digital Writing System

Take notes or draw sketches in ink on the smart paper and a “tiny camera” captures your work, storing up to 40 pages at a time. Intelligent power management maximizes every battery charge.

Capture the familiar feel of how you have created in the past and moves it to digital.



Cordless presenter

- **Logitech cordless presenter**



Fingerprint recognition

Built-in

- **Keyboard**
- **Mouse**



Standalone

- **Sony Puppy fingerprint identity device for Windows**
- **Index Security bio stik fingerprint reader (USB plug in device)**



Game machine

- **Nintendo DS**
- **Sony PSP**
- **Microsoft XBox**



Smart Watches

54 different brands on the market today

- **Casio**
- **Microsoft**
- **Nike**
- **Timex**



Along with your calendar, weather and news, you'll be able to track stock quotes, find movie listings at nearby theaters, or get sport scores, track horoscopes, find winning lottery numbers, read daily trivia or download new digital watch faces. Smart Personal Objects Technology (SPOT)

Wireless or synched

Have to think about the reception area!



Smart Watches

54 different brands on the market today

- Casio
- Nike
- Timex



Additional functions

- **Swimming or Running Laps (Speedo, Timex)**
- **Heart rate monitor (Polar)**
- **Altimeter, compass, barometer (Suunto)**



In the wings

- **E-ink**
 - **E-paper**
 - **Flexible displays**
 - **Keyboards with wall display**
-
- **On the way to many products**

E-paper

Seiko Epson unveils flexible e-paper for handhelds



“Seiko Epson unveiled a flexible 200 ppi e-paper display at the [SID 2005](#) (Society for Information Display). The display, which hasn't been actually displayed but only shown in a presentation, is based on E Ink's electrophoretic paper technology and uses Seiko's advanced display manufacturing and electronic circuitry techniques. Only a month ago Seiko [demonstrated](#) a curved wristwatch incorporating the same technology.

Tech-On [is quoting](#) Seiko saying that the company "aims to commercialize the technology within 1-2 years" targeting such markets as handheld products.”

[MobileRead Networks Blog, May 31, 2005]

Wearable computing

MIT Labs

“With heads-up displays, unobstrusive input devices, personal wireless areas networks (LANs), and a host of other context sensing and communication tools, the wearable computer can act as an intelligent assistant, whether it be through a Remembrance Agent, augmented reality, or intellectual collectives.”

<http://www.media.mit.edu/wearables>

<http://borglab.media.mit.edu/wiki/borglab/>

- **Great ideas waiting for practical applications and a market**

Movie Glasses

- In Skymall magazine – Icuity Video Eyewear (optional DVD player)



Head-worn display

- **Icuity M920 – small and lightweight**





101001010100
0041.00001.01.001.01.001.001.0

0010 1101010101011101000041000101010100
.01.00001.001.01.1.01.001.0

What toys do your toys have?

- **Memory chips – ever larger ever cheaper**
- **Keyboards for pdas**
- **Skins**
- **Caps (for Ipods)**
- **Carrying cases**
- **Ringtones**
- **External speakers for MP3s and PDAs**
- **Paid Subscriptions**

MP3 speakers

- **Bose**
- **Altec Lansing InMotion iM7**
- **Audiocassette adapter**



What is dying? What is next?

Study Sees PDAs Falling, Converged Devices Soaring; PDA sales declined for the fifth consecutive quarter while smartphone sales continue to experience triple-digit growth, a new global study shows.

[Information Week, May 11, 2005]



What is dying? What is next?

April software sales up 9% yoy, Handheld providing growth.

“Console and portable software retail sales in the US for the month of April increased 9% versus last year’s decrease of 3%. During the month by platform, Xbox & S software retail sales increased 45%, while PS2, Gamecube, and GBA sales declined 14%, 32%, 14% respectively, yoy. Excluding Sony PSP and Nintendo DS software sales, the industry declined 5%.”

**[JP Morgan U.S. Equity Research, May 13, 2005
(via Investext)]**

For what do we use gadgets?

Communication/Collaboration (Social interaction)



For what do we use gadgets?

Communication/Collaboration (Social interaction)

Information (storage, indexing, research, synthesis)

- **Files, data (books, articles, music, movies, photos, art, podcasts, etc.)**



For what do we use gadgets?

Communication/Collaboration (Social interaction)

Information (storage, indexing, research, synthesis)

- **Files, data (books, articles, music, movies, photos, art, podcasts, etc.)**

Entertainment

- **Games, Listen to Music, Read, etc.**

These may overlap!



Use of gadgets

Timeshifting: Synchronous or Asynchronous?

On work time or on personal time?

Productivity versus Distraction?

View as overload or the More the Better?



Use of gadgets

Timeshifting: Synchronous or Asynchronous?

On work time or on personal time?

Productivity versus Distraction?

View as overload or the More the Better?

From Heinlein's *Friday* (1982), pp. 219-220:

“Live music? I could punch in a concert going on live in Berkeley, but a concert given 10 years ago in London, its conductor long dead, is just as “live,” just as immediate as any listed on today's program. Electrons don't care. Once data *of any sort* go into the net, time is frozen.”



For More Information

Websites, Lists, Blogs, and Podcasts show the vitality of the formats

Gadgets: <http://www.gizmodo.com>

PDAs, Handhelds:

<http://www.handheldlib.blogspot.com>

<http://palmaddict.typepad.com/palmaddicts/>

Cnet: <http://shopper.cnet.com>

Yahoo groups: Pdalibraries, Pda-ebook



For More Information

Lots of magazine articles and conference presentations

Megan Fox

web.simmons.edu/~fox/pda (CIL)

Jennie Levine. Product Pipeline. Netconnect. Spring 2005. pp. 26-27

Michael Stephens

The iPod Experiments. Netconnect. Spring 2005. pp. 22-25



Contact me at:

Hope N. Tillman
Director, Libraries
Babson College
Babson Park MA 02457
781-239-4259

tillman@babson.edu

<http://www.hopetillman.com>

Find the presentation at:

<http://www.hopetillman.com/sla/zoo.pdf>