Sun City Summerlin
Computer Club

2007 Computer
Upgrade Plan

Tom Burt
February 1, 2007

Where to Find These Materials

Sun City Summer Computer Club Website Seminars:
- **http://www.scscc.com/smnr**

▪ **Acrobat file of these slides and Notes:**

  - **http://www.scscc.com/smnr/lab_upgrade_2007.pdf**

Agenda

- **Background – Why Upgrade**
- **Upgrade Plan**
- **Timeframe**
- **Budget**

Background (1)

- **Current Classroom PC Wearing Out / Unstable.**
- **Several intermittant and extended outages in 2006.**
- **Hard drive mobile racks wearing out.**
- **Not Windows Vista "Premium Ready" (video card).**
- **Under - powered for modern media applications.**

Background (2)

- **Current Lab Instructor PC Obsolete.**
- **Wear and tear.**
- **Small memory, slow CPU, slow USB, …**
- **Not able to run Windows Vista (video card).**
- **Needs to be able to act as back-up to Classroom PC.**

Background (3)

- **Current Lab PCs Wearing Out / Obsolete.**
- **Motherboards failing (bad capacitors).**
- **Both Sign-in PCs have died in last six months.**
- **4 student PCs *already dead!***
- **Other wear and tear.**
- **Small memory, slow CPUs, slow USB, …**
- **Not able to run Windows Vista (small RAM, small hard drives, weak video).**

Background (4)

- **Microsoft has just released Windows Vista.**
- **Need to support "hands on" classes for Vista.**
  - **Boot Camp**
  - **"Beyond …" series**
- **Also need to continue to support XP classes.**
  - **Boot Camp**
  - **"Beyond …" series**
  - **Word, E-mail, Control Panel, …**
- **Desirable to simplify & speed up lab maintenance.**
  - **Qualified volunteers scarce**
- **Need a simpler way for SIGs to use Classroom PC.**
  - **Many SIGs have a custom hard drive.**

TNB February 1, 2007   **2007 Computer Upgrade**

Upgrade Plan (Classroom)

- **Replace classroom PC**
  - **Vista "Premium Ready" video card**
  - **Vista Ultimate Edition as host / native OS**
  - **SATA 3 Mobile rack(s) or external SATA drives**
  - **MS Virtual PC 2007 or VMWare (virtual machine manager)**
  - **2GB RAM, 320 GB SATA 3 HD, Intel Core 2 Duo E6600**
  - **Upgraded video capture & output interface**
- **Other Software (as needed)**
  - **Upgraded "Vista" versions of all key SIG software**
  - **Run Windows XP-Pro in virtual machine(s)**
  - **May also run Vista in virtual machine(s)**
  - **Use Acronis True Image 10 for backups**
  - **Office 2003 (Already have licenses)**
  - **Office 2007**

TNB February 1, 2007   **2007 Computer Upgrade**

Upgrade Plan (Lab Instructor)

- **Replace Lab Instructor PC**
  - **Vista "Premium Ready" video card**
  - **Vista Home Premium as host / native OS**
  - **VMWare 5.x or 6 (virtual machine manager)**
  - **2GB RAM, 320 GB SATA 3 HD, Core 2 Duo E6400**
  - **External 320 GB SATA 3 USB 2 Drive (for backups)**
- **Other Software**
  - **Run Windows XP-Pro in virtual machine(s)**
  - **Use Acronis True Image 10 for backups**
  - **May also run Vista in VMWare virtual machine(s)**
  - **Office 2003**
  - **Office 2007 (later in 2007)**

Upgrade Plan (Lab Student PCs)

- **Replace 16 Lab Student PCs**
  - **Vista "Premium Ready" video card / chip**
  - **Vista Home Premium as host / native OS**
  - **VMWare 5.x or 6 (virtual machine manager)**
  - **1GB RAM, 250 GB SATA 3 HD, Core 2 Duo E6300**
- **Other Software**
  - **Upgraded "Vista" versions of all key student software**
  - **Run Windows XP-Pro in VMWare virtual machine(s)**
  - **Use Acronis True Image 10 for backups (LAN)**
  - **Office 2003 (through 12-31-2007)**

Time Frame

- **Classroom PC**
  - **Build or Buy (TBD)**
  - **Goal to complete by Feb 28, 2007**
  - **Small team to work on procurement, construction**
- **Lab Instructor PC**
  - **Build or Buy (TBD)**
  - **Goal to complete by March 15, 2007**
  - **Small team to work on procurement, construction**
- **Lab Student PCs**
  - **Buy – vendor / source TBD**
  - **Goal to complete by April 30, 2007**
  - **Small team to work on procurement, construction**
- **Supporting Infrastructure**
  - **Upgrade internal SCSCC LAN to 100 MB/sec by Feb 28, 2007**

TNB February 1, 2007   **2007 Computer Upgrade**

Upgrade Budget Estimate

- **Classroom PC**
  - **Hardware: $1,500**
  - **Software: $ 500**
- **Lab Instructor PC**
  - **Hardware: $1,200**
  - **Software: $ 500**
- **16 Lab Student PCs**
  - **Hardware: $12,000 ($750 each)**
  - **Software: $ 4,800 (Assumes Windows Vista pre-installed)**
- **Supporting Infrastructure**
  - **Hardware: $ 1000**
- **Estimated Total Cost**
  - **$21,000**

TNB February 1, 2007   **2007 Computer Upgrade**

Open Q and A

Final
Questions And Answers

2007 Computer Upgrade