College of Natural Sciences and Mathematics
IT Presentation to UHIT

Presented by Salvador Báez-Franceschi
7/1/2002
Introduction

- Major Accomplishments in the last 6 months
- Projects Scheduled for 2002-2003
- VNet (Virtual Net)
- New NSMIT Office
- VStation (Virtual Station)
“NSM IT office and vision statement creation has clearly established that the College of Natural Sciences and Mathematics is entirely committed to providing state of the art IT infrastructure for its students, faculty and staff.”
NSM IT Major Acomplishments

Installation and Configuration:

- 3 Filemaker Servers
- 2 Web and Streaming Servers
- 2 Lasso and MY SQL OSX Servers
- 1 Mail Server
- Dial Up Access for the Dean’s office
- 3 Wireless Stations
- 1 Web and MY SQL database Linux Server
NSM IT Major Acomplishments

- VNet Version 1 and 2 Design and Implementation in all College Departments.

“I used the new VNet system to place orders yesterday and was impressed by how easy it was…”

Susan A. Martinis, Ph.D.
Assistant Professor

Filemaker Client

Web Client
NSM IT Major Accomplishments

• Web home page development for NSM, NSM Staff, NSM IT, AMP and SMART
NSM IT Major Accomplishments

Web site traffic increases by more than 400%!

Chemistry Web Site Visitor Statistics

<table>
<thead>
<tr>
<th>Month</th>
<th>2001</th>
<th>2002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan</td>
<td>2117</td>
<td>3686</td>
</tr>
<tr>
<td></td>
<td>80.46%</td>
<td>39.52%</td>
</tr>
<tr>
<td></td>
<td>2631</td>
<td>9325</td>
</tr>
<tr>
<td></td>
<td>19.53%</td>
<td>60.47%</td>
</tr>
<tr>
<td>Apr</td>
<td>3628</td>
<td>5624</td>
</tr>
<tr>
<td></td>
<td>79.80%</td>
<td>45.98%</td>
</tr>
<tr>
<td></td>
<td>4546</td>
<td>12230</td>
</tr>
<tr>
<td></td>
<td>20.19%</td>
<td>54.01%</td>
</tr>
<tr>
<td></td>
<td>918</td>
<td>6606</td>
</tr>
</tbody>
</table>

- UMASS student chooses graduate studies at UH based solely on new Chemistry web site!
NSM IT Major Accomplishments

- **calc.nsm.uh.edu** 8,527 visits, 199,402 hits in less than two months since it went online.

- CHEM 1331, Dr. Russell A. Geanangel, web site receives averages 5,000 hits per week after going online less than two months ago.

- New **NSM Web Page** averages 4,940 hits per day and average visitors per day is 214.

- VNet averages 2,778 hits per day and average 50 visitors per day.
- NSM Reports Database - provides centralized real time access to departments financial data.
### NSMIT Main Projects 2002-2003

<table>
<thead>
<tr>
<th>Task Name</th>
<th>Qtr 3, 2001</th>
<th>Qtr 1, 2002</th>
<th>Qtr 3, 2002</th>
<th>Qtr 1, 2003</th>
<th>Qtr 3, 2003</th>
<th>Qtr 1, 2004</th>
<th>Qtr 3, 2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Math Web Multimedia Projects (Salvador)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Multimedia Classroom Study (Salvador)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Virtual Classroom (Salvador)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Campus Streaming Pilot</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Administration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. VNet Version 3 (Salvador)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Dean's Office Backup System (Salvador)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. VNet People Soft Connectivity Project (Salvador)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. VNet Inventory Module (Mark)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. NSM Report Database (Salvador)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Establish protocol for uploading streaming files (Afshad/Sodhi)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. AMP Web Page Redesign (Mark)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. NSM Web Page Redesign (Mark)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14. VNet Admin Module Version 2 (Karen)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15. VNet Virtuality Tour Modules (Afshad/Andrea)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16. Streaming Server Setup (Afshad/Andrea)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17. VNet Admin Module Version 1 (Karen)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18. Academic/Administration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19. NSM Back Up System Administration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20. Virtual Stations (VBooth) (Salvador)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21. Virtual Services Center (Salvador)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22. SRI New Network Transition (Salvador)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
NSMIT Proposed Projects 2002-2003

- Centralization of College IT services
  - Virtual Net (*VNet*)
  - New NSMIT Office
  - Virtual Stations (*VStations*)
  - Virtual Classroom (*VClassroom*)
**Goal**

Professional paperless administration and academic information environment for staff, faculty and students.
NSM IT New Offices

Customer IT Support

Web Data Entry and Updates Stations

Professional Scanning, DVD-CD Duplication and Printing

Video, Sound and 3D Animation

Professional Development

Desktop Publishing, Database and Multimedia

Professional Development
**VStation** (Virtual Station)

*VStations* will be located in central areas throughout the college.

Primary Components:

- Centralized high tech Information and news station
- Internet and multimedia access stations
- Wireless connectivity for student laptops
- **VNet** web uploads stations.
VStation (Virtual Station)
NSM Fall Semester Key Projects

- New NSMIT Office for three full-time and two part-time employees (approximately 500% increase in space).
- Wireless Pilot: 30 Wireless Laptops to be lend to AMP Program Students starting as soon as the infrastructure is in place.
- Streaming Pilot Expansion: Dr. Scott Perry, Dr. Jeff Morgan, Dr. Tejendra Gill starting next Spring Semester.
Assistance Needed from Telecommunication

- Installation of new network in the new NSM IT office as soon as possible.
- Installation of wireless stations on:
  1. Building 523 (LSAMP)
  2. SR1 Building
  3. Fleming Building
  4. Old Science Building
  5. UH Science Center Building.
Needed Assistance from Academic Technologies

- Touch screen LCD panel and computer for room SR1 634 to support streaming expansion pilot.
- Server space for stream files archive.
Needed Assistance from IT

- Joint NSM and IT VStation pilot installation on Lobby of SR1 Building.
- Equipment and software for evaluation of emerging technologies that can be used to accomplish NSM IT Vision.
Why IT Investment?

- These projects are run by IT and will be available for expansion to other Colleges of the University.
- IT is sharing development cost for new projects that otherwise would be financed only with IT internal funds.
Thank You!