Year End Report
Fiscal Year 2005-2006

Developing and providing training in advanced technology applications that enhance economic and workforce development programs and initiatives in the state of Hawai‘i and the Pacific Rim
# TABLE OF CONTENTS

EXECUTIVE SUMMARY ........................................................................................................... 2  
MARKETING................................................................................................................................. 4  
INDUSTRY TRAINING PARTNERSHIPS ..................................................................................... 9  
- Cisco Systems, Inc. .................................................................................................................. 9  
- Red Hat Academy ................................................................................................................... 17  
- Novell ..................................................................................................................................... 17  
- Autodesk Authorized Training Center ................................................................................... 17  
- ESRI ....................................................................................................................................... 18  
- Oracle Workforce Development Program ............................................................................ 18  
- Microsoft Academy ............................................................................................................... 19  
- BICSI ...................................................................................................................................... 20  
PARTNERED TRAINING ACTIVITIES ....................................................................................... 22  
GLOBAL LEARNING NETWORK (GLN) .................................................................................... 24  
VOICE OVER IP SYSTEM ........................................................................................................... 25  
MILITARY INITIATIVES ............................................................................................................. 26  
TEACHER TRAINING .................................................................................................................. 27  
HAWAII IT ACADEMY SUMMIT 2006 .................................................................................... 28  
TESTING AND PROCTORING SERVICES .................................................................................. 29  
FIRST TIME OFFERINGS .......................................................................................................... 30  
OPERATIONAL PROJECTS ........................................................................................................ 32  
TECHNOLOGY AND EQUIPMENT ............................................................................................. 35  
PCATT GOALS 2005-2006 (Status) ......................................................................................... 37  
PCATT 2006-2007 Goals ............................................................................................................. 42  
PCATT GRANTS PROGRAM ........................................................................................................ 44
EXECUTIVE SUMMARY

This report was prepared by the faculty and staff of the Pacific Center for Advanced Technology Training (PCATT) and provides a summary of the activities during the 2005-2006 fiscal year. PCATT continues to serve the mission to develop and provide training in advanced technology applications that enhance economic and workforce development programs and initiatives in the state of Hawai‘i and the Pacific Rim.

A significant change for PCATT this year was the transition in leadership of Donald Bourassa, PCATT’s founding and the appointment of his replacement, Scott Murakami in March 2006.


PCATT continued its involvement in the Cisco/McGraw-Hill Global Learning Network (GLN). The GLN v2.0 has been replaced with a new v3.0 which is a complete system replacement which remains in development.

The IT Summit which was held in Spring 2006, was again a tremendous success. This year’s theme of “Convergence” served to unite over one hundred DOE high school teachers from across the state, community college instructors, the UH College of Engineering, and DOE IT with leaders from business and industry for one and a half days of presentations, plenary, and breakout sessions.

PCATT introduced 3D printing to the Autodesk Lab with the purchase of a Contex DESIGNmate MX 3D printer. This printer allows PCATT to enter into rapid prototyping and additive manufacturing in Hawai‘i with initial application to the fields of architecture, engineering, and CAD.

PCATT made significant improvements to fiscal management and fund accountability through the development of a database to track deposits, receipts, expenditures and receivables. Through this process, we have validated and adjusted downwards, the financial position in the 2004-2005 fiscal year.

Approximately $243,295 was awarded in PCATT grants to community colleges throughout the University of Hawai‘i system. This marked the fifth year (out of six) that PCATT has granted a substantial award to colleges throughout the system.

Financially, PCATT fared well demonstrating its second highest year of gross revenue and the highest year of contribution to reserve since 2002.

Overall, PCATT performed extremely well during the 2005-2006 fiscal year. It was a time of change with the transition to a new director while continuing
PCATT’s trend of embarking on new initiatives and achieving a financially healthy position. The 2006-2007 fiscal year goals identified in this report are deliberately ambitious as the PCATT staff is confident, extremely competent, and eager to further our mission.

Scott Murakami  
PCATT Director
MARKETING

Primary marketing goals include:

- Place the PCATT name out in the general community to reach both the decision maker as well as the individual requesting training.
- Reach new customers in our target market.
- Maintain spending at the same level as the 2005 – 2006 budget year.

Additionally, with so many changes in the technical field and training companies opening and closing, there is a need to assure customers of PCATT’s enduring presence.

- Keep the PCATT name out in the public so that current and past PCATT customers feel secure in their training choice.

The Communication Arts (CA) program at Honolulu Community College provides marketing support for PCATT. It’s a win-win arrangement. PCATT receives print materials that are of high quality, affordable, and creative. Students benefit from actual production experience which is very different from completing homework assignments for class.

The advertising theme selected from Communication Arts proposals for this past year was “Be Driven.” The theme utilized a literal interpretation of the word “driven” with automotive visuals to represent advanced technology and incorporated a play on the word to mean a determination to succeed.

Samples of PCATT training schedules for 2005-2006 are included in the Appendix.

Magazines and Newspapers

PCATT ran ads in the following business and technology-centered publications. With guidance from the University of Hawai‘i’s system marketing office, ads followed the “Be Driven” theme and mirrored previous ads for branding.

Pacific Business News
Hawai‘i Business Magazine
PacificNews.Net

Copies of print advertisements are included in the Appendix.
PCATT eZine

PCATT’s first monthly eZine, an electronic newsletter, was transmitted in January 2006 reaching 729 people. The concept is to provide a short communication filled with useful information. Typically, the eZine has an interesting tech article, a human interest story, an IT certification update, announcements about upcoming training and events, and a discount coupon.

Although there was no initial feedback, with each issue requests are received to add co-workers to the routing, requests to post jobs, and other questions and comments.

Television

Bill Becker continues to provide a monthly “Tech Tip” on Flavors of Technology which airs on OC 16. Topics included IP Telephony and enhancements to OpenOffice. A PCATT television ad promoting certification preparation courses continues to run during that program.

Schedule of Courses

The professionally printed, glossy schedule highlights a spectrum of approximately 150 courses with new offerings added regularly and a direct mail list of 1,823 companies, organizations, and individuals.

The PCATT schedule is designed to convey a quality image of PCATT’s advanced technology offerings. Fewer schedules are printed as customers rely more on the PCATT Web site. There are constituencies that require a printed schedule such as the Employment Training Fund Office at the State Department of Labor and the Workforce Investment Board. The PCATT schedule is distributed through a direct mail list, the State Employment Office, libraries, military education offices, and training partners such as Cisco.

National Publicity

PCATT remains actively involved with the National Coalition of Advanced Technology Centers (NCATC) through continued participation in member activities, conferences, active involvement in Coalition initiatives, maintenance of the Coalition’s Web site, and the President’s Advisory Council. Membership provides PCATT national exposure.
Directory Listings

Directory listings were originally targeted for marketing since members keep their directories and use them as a reference tool. Directories will be reevaluated for a better match between memberships and our training offerings.

Current directory listings include:
- Society of Human Resource Managers (SHRM)
- American Institute of Architects (AIA)
- Building Industry Association (BIA)
- General Contractors Association (GCA)
- American Council of Engineering Companies (ACEC)
- Armed Forces Communications and Electronics Association (AFCEA)

Memberships

Organizational memberships provide PCATT staff with opportunities for networking and growth. These memberships also offer exposure for PCATT to share our expertise.

- Armed Forces Communications and Electronics Association (AFCEA)
- Building Industry Consulting Service International, Inc. (BICSI)
- Hawai‘i Technology and Trade Association (HTTA) now known as Hawai‘i Science and Technology Council
- National Coalition of Advanced Technology Centers (NCATC)
- Pacific Telecommunications Council (PTC)
- Society of Human Resource Managers (SHRM)
Site Visits and Tours

Where possible, PCATT invites representatives from companies and organizations to tour PCATT’s facilities. People are impressed with training resources PCATT has to offer. Without exception, these visits have led to training, training facilitation, and or valuable partnerships.

- Apple: Kepano Kekuewa, Apple Account Executive
- Pacific CADD Services, Inc: Yoshi Honda, President
- Pacific Resource Partnership: Rick Kane
- Novell: John Neilson, Territory Executive, Brian Six, Sales
- Wakelight Technologies – Joy Hess, President
- US Army Pacific – Clement Okamura, William Hong, Architecture and Policy Branch
- National Career Academy Coalition: Jean Miyahira, Director
- DOE, Gifted and Talented Program: JoAnn Facuri
- Kamehameha Schools, Extension Education Division: Tony LeBron, Director
- Creative Resources, Inc.: Russell Poucher, Apple Training and Support
- BAE Division Managers

Seminars and Workforce Development Fairs

Participation in seminars and workforce development fairs help to accomplish PCATT’s marketing goals to reach new customers and keep PCATT’s name in the public eye.

- AFCEA TechNet Asia Pacific – December 2005
- Science and Technology Day at the Capitol – March 2006
- RoadRunner Tech and Internet Expo on Oahu – March 2006
- AEC (Architectural, Engineering, and CAD Technologies) Presentations May 2006
- RoadRunner Tech and Internet Expo on Maui – May 2006
Web Site (pcatt.org)

The Oracle based design of the PCATT Automated Web site (PAW) has worked well for marketing. Courses can be quickly added, updated, and changed through a user interface keeping the Web site current and reliable.

AWSTAT, a service that monitors Web activity, reported its first full month of statistics in January 2005 where PCATT recorded 761 unique visitors accessing 30,937 pages. A year later in January 2006, PCATT recorded 1,162 unique visitors, an increase of 401 visitors. Pages increased by 5,908 to 32,206 pages. In June 2006, PCATT recorded 1,420 unique visitors, documenting that the PCATT Web site is actively viewed.

A Job Listing section was added to the PCATT Web site in June 2006 where tech related jobs are listed. PCATT has received a small but steady stream of job listings. The concept for the job listings is to have multiple reasons for visiting and revisiting the PCATT Web site.
INDUSTRY TRAINING PARTNERSHIPS

Through a partnership with the local Cisco Sales and Support office in Honolulu, a meeting with Hawaiian Telcom was arranged to see how PCATT could meet their training needs. Enterprise Honolulu recently called to have PCATT at a meeting with FritoLay to see if there was a match in regards to training capabilities. Partnerships are critical to PCATT’s on-going success.

Cisco Systems, Inc.

The Cisco Networking Academy Program at Honolulu Community College, continues to be the flagship program of PCATT. Through PCATT’s status as a Cisco Academy Training Center (CATC), Honolulu Community College receives substantial support from Cisco through equipment donations and instructor training. As of March 14, 2006, the total contribution estimate for Hawai’i Academies from the Cisco Networking Academy Program (including partner contributions) was estimated at $2,370,448. In turn, PCATT has been exceedingly proactive in spreading and supporting the Academy program throughout the State of Hawai’i and to locations in the Pacific.

In May of 2006, Cisco Systems reported a total of 2,892 students currently participating in the Academy program in the state of Hawai’i. Five curricula were being implemented in Hawai’i. They include: Cisco Certified Network Associate (CCNA), Cisco Certified Network Professional (CCNP), Fundamentals of Web Design, IT Essentials, and Fundamentals of Wireless LANs.

Cisco Academy Highlights and Events, 2005-2006

- Purchased Cisco equipment upgrades for use in Fundamentals of Wireless LANs, Network Security 1, Network Security 2, and the four CCNP courses

- Older CCNP equipment was configured to upgrade NetLab racks to support virtual hosts (for CCNA and CCNP remote access)

- New Cisco Academy under our CATC: College of Micronesia-FSM

Cisco Certified Network Associate Academies

Cisco Academy Training Centers
Honolulu Community College

Regional Academies
Honolulu Community College
American Samoa Department of Education
Guam Community College
Hawai‘i Community College

Local Academies

<table>
<thead>
<tr>
<th>15th Comm Squadron, Hickham AFB</th>
<th>Lana‘i HS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aiea HS</td>
<td>Maui CC</td>
</tr>
<tr>
<td>Baldwin HS</td>
<td>McKinley HS</td>
</tr>
<tr>
<td>Hilo HS</td>
<td>Mililani HS</td>
</tr>
<tr>
<td>Honolulu CC</td>
<td>Moanalua HS</td>
</tr>
<tr>
<td>Castle HS</td>
<td>Pearl City HS</td>
</tr>
<tr>
<td>Campbell HS</td>
<td>Radford HS</td>
</tr>
<tr>
<td>Kaimuki HS</td>
<td>Roosevelt HS</td>
</tr>
<tr>
<td>Kaiser HS</td>
<td>UHM – ITS</td>
</tr>
<tr>
<td>Kamehameha Schools</td>
<td>UH College of Engineering</td>
</tr>
<tr>
<td>King Kekaulike HS</td>
<td>Waipahu HS</td>
</tr>
</tbody>
</table>

Training Activity

CCNA 1 Instructor Training

- Dates: June 13 – June 19, 2005
  Participants: Moanalua HS, Mililani HS

- Dates: July 3 – July 8, 2006
  Participants: Kapaa HS, Waipahu HS, Honolulu CC

CCNA 1 Instructor Bridge Training (via Webex, Internet Phone, and NetLab)

- Dates: June 22 – July 30, 2005
  Participants: Konawaena HS (Big Island), Kekaulike HS (Maui)

CCNA 2 Instructor Training

- Dates: June 24 – June 30, 2005
  Participants: Moanalua HS
- Dates: July 10 – July 15, 2006  
  Participants: Waipahu HS

**CCNA 2 Instructor Bridge Training (via Webex, Internet Phone, and NetLab)**

- Dates: June 16 – July 30, 2005  
  Participants: Mililani HS

**CCNA 3 Instructor Training**

- Dates: June 27 – 30, 2005  
  Participants: Kauai CC, Honolulu CC

**CCNA 3 Instructor Bridge Training (via Webex, Internet Phone, and NetLab)**

- Dates: September 20 – September 25, 2005  
  Participants: Honolulu CC

**CCNA 4 Instructor Training**

- Dates: July 5 – 8, 2005  
  Participants: Kauai CC, Honolulu CC

**CCNA 4 Instructor Bridge Training (via Webex, Internet Phone, and NetLab)**

- Dates: June 6 – July 30, 2005  
  Participants: Kamehameha Schools

**Cisco Certified Network Professional Academies**

**Academy Training Centers**
Honolulu Community College

**Regional Academy**
Honolulu Community College

**Local Academies**

<table>
<thead>
<tr>
<th>Centro Universitario de la Costa – Universidad de Guadalajara</th>
<th>ITESM Campus Estado Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cisco Systems K.K.</td>
<td>ITESM Campus Queretaro (Mexico)</td>
</tr>
<tr>
<td>Guam Community College</td>
<td>Kauai Community College</td>
</tr>
<tr>
<td>Hawaii’i Community College</td>
<td>Maui Community College</td>
</tr>
<tr>
<td>Heald College, Honolulu Campus</td>
<td>Secretaria Nacional de Ciencia</td>
</tr>
</tbody>
</table>
Training Activity

**CCNP 1 Instructor Training**

- Dates: June 6 – 17, 2005
  Participants: Southwestern Oregon CC, Chemeketa CC (Oregon), Centro Universitario de la Costa - Universidad de Guadalajara, Honolulu CC

**CCNP 2 Instructor Training**

- Dates: April 3 – April 14, 2006
  Participants: Southwestern Oregon CC

- Dates: May 1 – May 12, 2006
  Participants: Southwestern Oregon CC, University of Technology Sydney

**Cisco Sponsored - IT Essentials**

*Academy Training Center*
Honolulu Community College

*Regional Academy*
Guam Community College
Honolulu Community College
Pikes Peak Community College
Hawai‘i Community College

*Local Academies*

<table>
<thead>
<tr>
<th>American Samoa Community College</th>
<th>Kekaulike</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baldwin High School</td>
<td>Konawaena HS</td>
</tr>
<tr>
<td>College of Micronesia-FSM</td>
<td>Lanai HS</td>
</tr>
<tr>
<td>Hawaii College, Honolulu Campus</td>
<td>Maui Community College</td>
</tr>
<tr>
<td>Hilo High School</td>
<td>Maui HS</td>
</tr>
<tr>
<td>Honolulu Community College</td>
<td>McKinley HS</td>
</tr>
<tr>
<td>Castle HS</td>
<td>Millilani HS</td>
</tr>
</tbody>
</table>
Campbell HS  | Moanalua HS  
Kahuku HS  | Nuulii Polytech  
Kaimuki HS  | Olomana School  
Kalani HS  | Pearl City HS  
Kanu o Ka Aina New Century Public Charter School  | Roosevelt HS  
Kappa High School  | Waianae HS  
Kauai Community College  | Waipahu HS

Training Activity

- Dates: June 20 – July 29, 2005  
  Participants: Maui HS, Honokaa HS, Moanalua HS, Kahuku HS

- Dates: May 12 – June 16, 2006  
  Participants: Honolulu CC

- Dates: May 29 – June 2, 2006  
  Participants: College of Micronesia-FSM (course taught on site by Mario Mediatu)

Cisco Sponsored Curricula - UNIX

Academy Training Center  
Honolulu Community College

Regional Academies  
Guam Community College  
Honolulu Community College  
Pike Peak Community College

Local Academies  
Heald College  
Honolulu Community College  
Miliiani HS

Training Activity

No Courses were offered in Unix for the 2005-2006 year
Cisco Sponsored Curricula - Web Design

Academy Training Center
Honolulu Community College

Regional Academies
Honolulu Community College
Pike Peak Community College
Hawai‘i Community College

Local Academies

<table>
<thead>
<tr>
<th>Heald College, Honolulu Campus</th>
<th>Konawaena HS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honolulu Community College</td>
<td>Maui Community College</td>
</tr>
<tr>
<td>Campbell HS</td>
<td>Mid-Pacific Institute</td>
</tr>
<tr>
<td>Kamehameha Schools</td>
<td>Mililani HS</td>
</tr>
<tr>
<td>Kauai Community College</td>
<td></td>
</tr>
</tbody>
</table>

Training Activity

No courses were offered in Web Design in 2005-2006 year

Cisco Sponsored Curricula - Java

Academy Training Center
Honolulu Community College

Regional Academies
Guam Community College
Honolulu Community College
Pikes Peak Community College

Local Academies

<table>
<thead>
<tr>
<th>Heald College, Honolulu Campus</th>
<th>Myron B. Thompson Academy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honolulu Community College</td>
<td>Punahou School</td>
</tr>
<tr>
<td>Mid-Pacific Institute</td>
<td>Roosevelt HS</td>
</tr>
<tr>
<td>Mililani HS</td>
<td></td>
</tr>
</tbody>
</table>

Training Activity

No Courses were offered in Java in the 2005-2006 year
Cisco Sponsored Curricula – Security

Academy Training Center
Honolulu Community College

Regional Academy
Honolulu Community College
Rensselaer Polytechnic Institute
Hawai‘i Community College

Local Academies

<table>
<thead>
<tr>
<th>City College of San Francisco</th>
<th>Honolulu Community College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guam Community College</td>
<td>Kauai Community College</td>
</tr>
<tr>
<td>Heald College, Honolulu Campus</td>
<td>University of Hawai‘i College of Engineering</td>
</tr>
</tbody>
</table>

Training Activity

Network Security 1 Instructor Training

- Dates: June 5 – 9, 2006
  Participants: Guam CC, Honolulu CC

Network Security 2 Instructor Training

- Dates: June 13 – June 27, 2006
  Participants: Guam CC, Honolulu CC

Cisco Sponsored Curricula - Wireless

Academy Training Center
Honolulu Community College

Regional Academies

Honolulu Community College
Rensselaer Polytechnic Institute
Hawai‘i Community College

Local Academies

<table>
<thead>
<tr>
<th>City College of San Francisco</th>
<th>Kanu o Ka Aina New Century Public Charter School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guam Community College</td>
<td>Kauai Community College</td>
</tr>
<tr>
<td>Hawai‘i Academy of Arts and Science</td>
<td>Konawaena HS</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Heald College, Honolulu Campus</td>
<td>Maui Community College</td>
</tr>
<tr>
<td>Honoka‘a HS</td>
<td>Mililani HS</td>
</tr>
<tr>
<td>Honolulu Community College</td>
<td>University of Hawai‘i College of Engineering</td>
</tr>
</tbody>
</table>

**Training Activity**

**Fundamentals of Wireless LAN’s Instructor Training**

- Dates: July 11 – 16, 2005  
  Participants: Heald College, City College of San Francisco

**Cisco Sponsored Curricula – IT Telephony**

**Local Academies**

Honolulu Community College

**Training Activity**

Voice Over IP Telephony Training  
Date: May 8, 2006

**Sunset Learning Institute (Cisco Learning Partner)**

In 2006, a partnership was established between PCATT and the Sunset Learning Institute. This partnership enhances PCATT’s ability to meet Hawai‘i’s workforce development needs by teaching advanced Cisco courses that are not available through the Cisco Academy program. The process of reviewing and selecting a partner, then signing an agreement acceptable to both parties was lengthy. A PCATT instructor is scheduled for instructor and content training later this year. The training agreement will be evaluated to determine its value and viability.
Red Hat Academy

“Red Hat, Inc. is a market leader in the development, deployment, and management of Linux and open source solutions for Internet infrastructure, ranging from embedded devices to secure web servers.” --Wikipedia

PCATT is now authorized to offer two courses that lead to Red Hat Certified Technician (RHCT) certification and two courses that lead to Red Hat Certified Engineer (RHCE) certification. Although scheduled to be available by February 2006, course offerings for RHCE courses were delayed as Red Hat fine-tuned curriculum and labs. PCATT’s first RHCE prep course was offered in August 2006.

PCATT has the ability to provide training and to administer the RHCT and RHCE certification exams, previously available only on the mainland. With the increased use of Linux in industry and academics, skills in open source are becoming valuable commodities.

Novell

In 2006, PCATT signed an agreement to become a Novell Silver Partner with the ability to provide authorized Novell Linux training. Two Master trainers were certified in January 2006 for Getting Starting with Linux: Novell’s Guide to CompTIA’s Linux+. Master trainers are authorized to train other instructors as well as private individuals. This partnership gives PCATT access to Novell’s curriculum and regular updates regarding Novell’s programs. Thus far, instructors from Mililani High School, Kauai and Honolulu Community College have attended instructor training. Partnerships with both Novell and Red Hat provide a solid training base for open source in Hawai’i.

Autodesk Authorized Training Center

The Autodesk Premier Authorized Training Center (ATC) at Honolulu Community College was very successful this past year. ATC continued to offer training in the latest version of AutoCAD, Autodesk’s most popular Computer-Aided Design (CAD) software, and expanded to include Autodesk Revit, a software package for architecture. This software allows professionals to design a building in 3D, and upon finalization of the design, extract the many views necessary for a set of architectural construction drawings from the 3D model. The software is parametric. As building elements are changed in the model, all views containing the changing objects are updated in real time. It is part of a new paradigm in architecture called building information modeling (BIM) and it is revolutionizing architectural practices around the world.
In November, 2005, Mike Jennings, the ATC Manager, attended Autodesk University 2005 in Orlando, Florida. He met with ATC Managers from the U.S., Canada, and Central and South America to be briefed on Autodesk’s upcoming plans for marketing. He also received training on the use, implementation, teaching, and troubleshooting of the Autodesk software taught at the ATC.

In May, 2006, both instructors at the ATC passed difficult exams on the 2007 versions of Autodesk software. Doug Madden passed the AutoCAD 2007 exam and Mike Jennings passed the AutoCAD 2007 and the Revit 9 exams. The Honolulu Community College ATC is now listed on the Autodesk ATC locator site as “2007 Ready.”

In June, 2006 Honolulu Community College hosted a CAD Camp targeted to professional users of Autodesk products. This event, sponsored primarily by the Autodesk Users Group International (AUGI), is a traveling one-day training event that brings top trainers of Autodesk software to local users in cities throughout the U.S. and Europe. It is essentially a “mini Autodesk University.” This was the first time an AUGI CAD Camp event was held in Hawai`i and both AUGI and the local attendees were impressed with the resulting event. Plans are in the works for next year’s CAD Camp at Honolulu Community College.

Midway through calendar year 2006, according to data recorded by Autodesk from ATC course evaluations, the Honolulu Community College ATC received the following performance scores (100% being perfect):

| Course Content and Materials | 85.42% |
| Facilities                  | 89.58% |
| Instructional Quality       | 89.58% |
| Overall Performance         | 88.19% |

**ESRI**

ESRI, Environmental Systems Research, Inc., is a world leader in the Geographic Information System (GIS) software industry and produces ArcGIS, a suite of GIS software products. In 2005, PCATT began a partnership with the local ESRI office to offer introductory and targeted GIS training using ArcGIS. This partnership, along with the partnership with Intergraph, the producer of GeoMedia, provides business and industry with the GIS training they need in Hawai`i.

**Oracle Workforce Development Program**

Oracle has established the Workforce Development Program (WDP) which enables participating non-credit educational organizations, like PCATT, to deliver Oracle training to participants in their local communities.
WDP training prepares students and working professionals for entry-level employment in the following Oracle job-roles:

- Oracle Database Administrator
- Oracle Internet Application Developer/Forms Developer
- Java Solution Developer

A four-course sequence of Oracle9i courses was begun in mid 2005. The final Oracle course in the sequence, Performance Tuning, is currently being completed.

Oracle has released a new version, Oracle10g, of their database. Keeping on the leading edge of IT training in Hawai‘i, the primary Oracle instructor has become Oracle10g certified and Oracle10g courses were offered early in 2005. Insufficient student numbers resulted in these courses being cancelled. There was still a need for Oracle9i courses, thus another series of Oracle9i courses was offered. The interest in Oracle 10g has grown and the next cycle of Oracle courses, beginning in September 2006, will be 10g courses.

The Hawai‘i Oracle Users Group has been reorganized over the past year. PCATT has provided a classroom to the Users Group for their quarterly meetings. This has given the Oracle and other IT training offered by PCATT additional exposure.

Microsoft Academy

Microsoft continues to support an IT Academy Program. When first established in 2002, PCATT at Honolulu Community College was selected as one of 15 Microsoft IT Academy Regional Centers to support local IT Academies. Insufficient interest was shown by the State of Hawai‘i high school and PCATT/HCC lost its Regional Academy status in 2004. Since that time, all Regional Academies have been dropped and Microsoft is running the IT Academy Program centrally from its main corporate offices. PCATT/HCC continues to participate in the Microsoft IT Academy Program as a local academy. Participating as a local academy gives PCATT/HCC access to the Microsoft Official Curriculum used in both PCATT and in the HCC’s credit Computing, Electronics, and Networking Technology program and gives PCATT the ability to use the Microsoft IT Academy logo on marketing materials.

Little success had been realized in offering non-credit Microsoft certification preparation courses prior to 2005. Significant adjustments have been made to the course offerings. During the summer of 2005 a very successful section of Microsoft Windows Server 2003: Core and OS was taught. This was followed by a Microsoft Windows Server 2003: Security course. Both courses are high-level Microsoft training and are geared to prepare students to take all seven Microsoft
Certification Exams required to obtain a Microsoft Certified System Engineer (MCSE) certification. Both continue to receive strong student enrollments.

BICSI

PCATT has been a BICSI Corporate Member for several years. BICSI, the Building Industry Consulting Service International, Inc., is a telecommunications association with the mission to lead the telecommunications industry in the enhancement of quality services and methods around the globe by providing excellent education, promoting skill sharing, and assessing knowledge with professional registration programs. Also, for several years, building and electrical contractors on O'ahu have been urging PCATT to establish a certified BICSI cabling installer laboratory at Honolulu Community College. The cost of the license fee and required equipment precluded the development of this initiative.

Late in 2004, PCATT was contacted by Mack Burnham, a certified BICSI cabling instructor who had relocated to O'ahu, offering an economical way to establish a BICSI lab at Honolulu Community College. He is a personal friend of the President of CrossBow Communications, an IT training and consulting company located in San Jose, California. CrossBow is a multiple site license holder for BICSI training. PCATT has partnered with CrossBow Communications, and a certified BICSI cabling training laboratory has been set up at HCC. CrossBow provides the site license and a large amount of classroom cabling supplies and material for the training. PCATT provides the equipment and tools. A revenue sharing agreement has been established for the partnership.

Three levels of BICSI cabling courses have been offered:
- BICSI Installer Level 1 training for entry level cable installers
- BICSI Installer Level 2 training for cable installers with 2 years of experience
- BICSI Technician Level training for cable installer with 5 or more years of experience

Several cycles of the three courses have been offered in the past years and two Level 1, one Level 2, and two Technician courses had sufficient enrollments to run.

PCATT also partnered with the BICSI corporate training office to offer classroom BICSI courses. BICSI provides the instructor, training materials and registration, and PCATT provides the training location. Courses include: DD100: Introduction to Voice/Data Cabling Systems, DD102: Designing Telecommunications Distribution Systems, and DD200: Telecommunications Distribution Systems Review.

On July 25, 2006, the BICSI Western Regional Meeting was hosted by PCATT in the Honolulu Community College Kapalama Multimedia Conference Center. This
is the first time the Western Regional Meeting was held in Hawai'i. This event was attended by 120 participants and vendors from Hawai'i, California, Oregon, Florida, North Carolina, Connecticut, and Illinois.
PARTNERED TRAINING ACTIVITIES

Events

PCATT is proud to host technology centered events and meetings to promote advanced technology in the state of Hawaii. This is an area for growth which PCATT can do more.

LERN Successful Certification Programs – May 2006
Podcasting – May 2006
Final Cut Pro – June 2006

Training Facilitation

To promote advanced technology training, PCATT offers training facilitation services for companies and organizations to conduct their own training programs. This provides an avenue for PCATT to keep its pulse on what’s happening in industry, to network with people in the technology industry, and to promote its own programs to the public.

Wonderware (Industrial automation software) – August 2005
Alan Shintani Contractors software training – August 2005
AdTran Seminar – August 2005
for Sandwich Isles Communication
Ascolta – Cisco Security Agent – September 2005
Pugei Sound Oracle Users Group – Oracle – September 2005
Peer Precision Training – October 2005
Intergraph – for Hawaiian Telcom – October 2005, November 2005
Internet Security – Hawaii Attorney General’s Office
Unsafe Havens Internet Security – National District Attorneys – November 2005
Peter Kay, UHPA Web site training – February 2006
USARPAC (proprietary software) – March 2006
Ascolta – Cisco IP Telephony – April 2006, June 2006
AUGI CAD Camp – June 2006

Repeat Customers

Organizations, companies, and schools that returned to PCATT for training facilitation include the following:

Island Controls
Building Industry Association
Contracts

PCATT is able to offer customized training for organizations and businesses. Training may be customized in terms of content as was the case in Router Protocol for First Hawaiian Bank. Training can be provided on-site (Foodland and Outrigger Hotels). BAE Systems wanted a customized course on a special schedule for their employees so a Technical Writing course was developed and delivered for them.

Transitioning to InDesign from Quark for Foodland – July 2005
HTML and CSS for State of Hawai‘i Dept. of Accounting and General Services - November 2005
Router Protocol for First Hawaiian Bank – January 2006
AutoCAD training for Hawaiian Homestead Technologies – February 2006
Transitioning to InDesign from Quark for Outrigger Hotels – February 2006
UNIX Essentials for First Hawaiian Bank – March 2006
Technical Writing for BAE Systems – June 2006

International Contract

Although PCATT has experience in sharing training expertise between campuses and with the neighbor islands, PCATT was challenged to deliver customized training in Pohnpei, Micronesia, at the College of Micronesia.

Instructors in Micronesia saw courses on the PCATT Web site and initiated a conference call with the help of PEACESAT. They wanted training for their college teachers and staff in the areas of computer troubleshooting and repair (A+), intermediate motor control, and office equipment repair, maintenance and troubleshooting.

During May and June 2006, PCATT sent instructors and equipment to Micronesia to conduct customized training. Course evaluations show high levels of satisfaction with the training received. Communication with the College of Micronesia has continued beyond the completion of training with the potential for meeting additional needs in the future. This experience provides an experience base and model for providing training for other Pacific locations.
GLOBAL LEARNING NETWORK (GLN)

The Cisco pilot program of their Global Learning Network (GLN) 2.0 is winding down. As a pilot program, PCATT delivered McGraw Hill courses in Developmental English (2 sections) in Fall 2005, and Pre-algebra in both Fall 2005 and Spring 2006. In addition to the McGraw Hill courses, the PCATT Algebra 1 course was offered at both Honolulu Community College and Kahuku High School.

Initial response to GLN was favorable. Through the pilot program, PCATT along with EdgePoint and Cisco through feedback from participating high schools discovered limitations in GLN in two specific areas. These include online examinations and authoring capability.

In Spring 2006, PCATT was introduced to a GLN 3.0. The new GLN 3.0 is a complete redesign of the 2.0 platform and remains under development. GLN 3.0 promises to address the online authoring limitations of the 2.0 version and focuses on developing community within the learning environment.
VOICE OVER IP SYSTEM

PCATT continues to utilize the Voice over IP (VOIP) system purchased in Spring of 2005. The following were accomplished in 2006:

- Increased the number of phones on the VoIP system by five for a total of seventeen phones.
- Added a secure crossover to connect the private HCC phone network with the public Internet.
- Experimented with VT Advantage, Cisco’s video telephony solution.
- Began development of a robust, secure Web server solution for the phone network to house customized Web based IP phone services.
- Began developing customized Web based IP phone services using the PHP programming language.

In 2006, we were notified by Cisco Systems that the Cisco Academy was discontinuing the VOIP curriculum in the Academy. Knowledge gained through the operation of the PCATT VOIP system will allow for the development of independent training content in IP telephony.
MILITARY INITIATIVES

The PCATT staff continues to put effort into attracting active duty and VA military participants into PCATT courses and programs. Extensive mail, e-mail and phone communications take place between PCATT staff members and Military Education Directors and Counselors on Oahu. The HCC Coordinator of Off-Campus Education Programs delivers quarterly PCATT schedules of courses to military bases served by this Program. Course schedules are hand delivered to the bases not served by the HCC Off-Campus Program. Former Director, Don Bourassa, and Programs and Training Manager, Jerry Cerny, attended the NCATC Conference in Jacksonville, Florida, in October 2005, where extensive discussions were held with the personnel of the Military Education Institute of Florida Community College at Jacksonville.

Tuition Assistance (TA) for active duty military personnel continues to grow. The Army, Navy, Air Force, and Marines now provide TA for PCATT Cisco, Microsoft, Red Hat, and Fiber Optics courses.

Veterans Assistance (VA) educational benefits for former active duty military personnel remains active. VA benefits are available for the following PCATT non-credit courses:

- Cisco
- Microsoft
- Red Hat
- Linux
- Oracle
- Cabling and Fiber Optics
- Solaris System Administration

A request for benefits for the Autodesk program has been submitted and the approval is pending. The Director, Office of the State Approving Agency for Veteran Training, conducted a visit and comprehensive audit of PCATT this May. Following the visit and audit, the Director, State Approving Agency, determined that the PCATT VA program continues to more than adequately meet the requirements for approval. The Director complimented Germaine Tsukamoto, HCC/PCATT Non-Credit Registration Clerk and Non-Credit VA Clerk, for her knowledge and attention to detail in maintaining required VA student files.
TEACHER TRAINING

The training of technology teachers in the state remains a primary goal of PCATT. Over the last five years, it remains apparent that teachers at both the secondary and post secondary levels need access to technology training that is both locally based and affordable.

For DOE teachers, training at PCATT is provided on a cost recovery basis. For University of Hawai‘i community college instructors, the training is provided at no cost.

DOE, private, and college teachers attended the following courses this past year:

- CCNA 1 Instructor Training
- CCNA 2 Instructor Training
- CCNA 3 Instructor Training
- CCNA 4 Instructor Training
- CCNA 1 Instructor Bridge Training
- CCNA 2 Instructor Bridge Training
- CCNA 3 Instructor Bridge Training
- CCNA 4 Instructor Bridge Training
- CCNP 1 Instructor Training
- CCNP 2 Instructor Training
- IT Essentials Instructor Training
- Fundamentals of Network Security Instructor Training
- Fundamentals of Wireless LAN’s Instructor Training
- Getting Started with Linux: Novell’s Guide to CompTIA’s Linux+ Instructor Training
HAWEI'I IT ACADEMY SUMMIT 2006

PCATT hosted its fourth annual IT Academy Summit in May 2006. As with the first three IT Summits, several objectives were met during the Summit. The first was to gather all the Academies in the state in one location so the Academy instructors could meet one another and lay the groundwork for future networking. The second was to increase awareness of the latest Academy offerings and training available through PCATT, and how PCATT can be a major supporter of technology training in the public schools and colleges.

Attendees included over 100 high school teachers from around the state, community college instructors, the UH College of Engineering, and DOE IT and curriculum specialists.

Convergence served as an anchor for the conference. Plenary sessions included:

- *Latest and Greatest Web Technologies* by Kevin Hughes, Chief Technical Officer, Chipin

For the third year, the Hawai‘i DOE Magnet E-Academy Program partnered with the IT Summit to offer an update to Magnet E-Academy teachers.

Breakout sessions included:

- Updates on the Cisco Academy
- Cisco curriculum
- Autodesk Animation Academy
- IT Essentials
- Magnolia Content Management System
- SUSE Linux Solution
- Planning and Managing School IT Services
- Podcasting
- Voice over Internet
- Vulnerability of Open Wireless Networks
- Standards for Hawai‘i’s WWW Development Workforce
- University of Hawai‘i Academy for Creative Media

As with the first three Summits, reaction to this year’s Summit was overwhelmingly positive. A copy of the evaluation summary is included in the Appendix together with a copy of the official Summit program.
TESTING AND PROCTORING SERVICES

PCATT continues to offer testing services through the ACT and VUE testing center. Additional testing services have been delivered over the past year. Both involve high stakes testing for exams such as IT certifications (CCNA, MCSE, A+, etc), nuclear medicine, ASE (Automotive Service Excellence), Social Workers licensing, and others. Through ACT, seventy eight (78) exams were administered. VUE is handled as a service so that people who take technical courses from PCATT have a means to test. One hundred and four (104) exams were administered.

In January 2006 a partnership with Performance Assessment Network (PAN) was established. PAN offers Transportation Security Administration (TSA) exams. Additional testing services were provided for the American Dental Association, the National Conference of Bar Examiners offering the Multistate Professional Responsibility Examination, the National Board of Examiners in Optometry, and the North American Board of Naturopathic Examiners. A total of two hundred and two (202) exams were administered. Testing provides a service to PCATT constituents and is an effective use of tech support. A critical mass is sought for optimal use of resources to provide testing services and to produce revenue to support training.
FIRST TIME OFFERINGS

Technology is constantly changing. To meet this challenge, PCATT researches and continually updates and offers new courses. A few of the new topic areas are in response to a specific request; most come from PCATT’s experience base in anticipation of what people need from technology. The following is a summary of new offerings for the year 2005 – 2006.

AutoCAD
- AutoCAD 2006 Essentials
- AutoCAD 2006 Intermediate
- AutoCAD 2006 Advanced
- Revit – Stay and Play for Free
- Autodesk Revit Basics
- Advanced Revit
- Autodesk Revit Building & Essentials

Customer Support
- ETA Customer Service Specialist Certification

Digital Graphics
- Photoshop for Digital Photographers
- New Media Arts Lecture Series

Digital Video, 3D, Animation, Music
- Flash for Game Developers
- Digital Video Production
- Digital Music Production – Audio Recording Concepts and Techniques
- Digital Music Production – Professional Tools
- Digital Music Production – The Essentials

Enterprise Applications
- Implementing and Managing Microsoft Exchange Server 2003
- Cisco IP Telephony v1.0

Open Source
- Red Hat Linux Network Applications (RHA 230)
- Red Hat Linux Security Administration (RHA 250)
- Getting Started with Linux: Novell’s Guide to CompTIA’s Linux+ (Course 3060)
- Free Linux Orientation
- NeoOffice: OpenOffice for Mac OS X
- Magnolia Content Management System
Operating Systems

- Switching to OS X v10.4 "Tiger"

Security

- Protecting Your Windows XP with Norten Internet Security
- Protecting Your Windows XP with Norten AntiVirus
- Protecting Your Windows XP with Norten Personal Firewall
- Protecting Your Windows XP with MacAfee Internet Security
- Protecting Your Windows XP with MacAfee VirusScan
- Protecting Your Windows XP with MacAfee Personal Firewall Plus
- Protecting Your Windows XP with Shareware/Freeware

Web

- Web Development for Small Business
- Building a Web Site with Photoshop and Dreamweaver
- Cascading Style Sheets: Basic Topics
- JavaScript for a Dynamic Web Site
- Web Design with Macromedia Contribute
OPERATIONAL PROJECTS

The PCATT staff is constantly developing and implementing methods of streamlining operations to improve service to its customers and to improve operational efficiency. For the 2006 year, projects listed below were undertaken to meet these objectives.

PCATT Automated Web Site (PAW)

The PCATT Automated Web Site (PAW) project went “live” in Fall 2004. The schedule of courses is now input via the software, and the presentation of courses via the Web site is generated “on-the-fly”. In 2005, enhancements included a new Web server using Apache/Tomcat on Linux OS and Oracle 10g as the supporting database.

In 2006, further refinements have been achieved with the automated Web site. This includes the creation of a new version of the dynamic content management application for incorporating the Continuing Education and Training (CET) Program at HCC. This will allow PCATT and CET to dynamically update course schedules through a single entry to multiple applications and Web sites. This development will be implemented next year.

The “base” for the Oracle program used to list courses was extended for use in “What’s New” and the “Job Listing” sections of the Web site making it easy for staff other than the PCATT Webmaster to post to the Web site. This has worked well for PCATT.

Taking the course listings in the PCATT database a step further, a program was written using PHP scripts to export data to word processing files to be edited and dropped into the layout using InDesign for the printed PCATT schedule of courses. PEAR is used to create compressed files and provides the interface between PHP and the operating system. Although the first attempt was very time consuming, the process improved with the production of the June/July/August Schedule. The process currently does not run smoothly, but the prospect for it to be a time saver with one less cycle of text input, reducing the potential for errors, is good.

Evaluation Instruments

The online course evaluation process was implemented in 2005 and has worked well for PCATT. Evaluations completed for courses conducted in Micronesia were received and summarized before the instructors boarded their planes to return to Hawai’i.
The evaluation for training facilitation has been delayed. Although the evaluation could be easily completed by a campus programmer, PCATT staff wanted to learn how to create this and other online evaluations to become independent designers and users. Once this skill is mastered, it can be expanded to other areas.

**Magnolia Project**

Magnolia is an open-source application for managing Web content. In 2005, a small group within PCATT began piloting Magnolia as a possible content management system for the PCATT Intranet.

In 2006, we introduced the PCATT staff to Magnolia to obtain feedback on the use of this application for the Intranet. Initial feedback has been positive. We will commence with further staff training for a more thorough review of Magnolia as the PCATT Intranet content management system.

**Office Management Projects**

PCATT office staff continues to develop and implement the use of technology to decrease errors, improve customer service, and to streamline office procedures.

Examples include:
- Use of a data table to monitor parking usage and to automate the printing of parking passes.
- Automation of credit card statement reconciliation across accounts.
- Addition of an “Accounts Receivable” tracking system to the fiscal database, eliminating the manual input of receivables. From this tracking system, reports can be created to check on the status of receivables.
- Automated areas of course preparation in a “Class Tracking” system that includes automated Payroll and Facilities requests.

**Training Eligibility**

To provide funding resources to PCATT’s customers, proposals were submitted and approved to allow PCATT to be an eligible training provider for the State of Hawai‘i’s Employment Training Fund, for the Workforce Investment Act (WIA) administered by the Workforce Investment Board, and for the Veterans Administration. Each of these funding sources requires reporting, special financial handling and billing, and unique processing.
Accreditation

The PCATT Director continues to meet regularly with the Honolulu Community College Planning Council and administration as the HCC campus prepares for an accreditation site team visit planned for October 23 – 25, 2006, by the Accrediting Commission for Community and Junior Colleges.
TECHNOLOGY AND EQUIPMENT

PCATT strives to maintain its position as a preferred location for advanced technology training by meeting standards. This allows PCATT to:

- Where possible and appropriate, offer hands-on training
- Speak from experience using sound pedagogical techniques
- Equip and maintain efficient tech equipment and lab environments
- Follow industry standards taking the lead as appropriate

This presents a challenge for tech support staff who need to seriously evaluate alternatives when making purchases, meet high expectations for an advanced technology training center, exemplify best practices, and not only stay current but anticipate future technology training needs.

Providing a secure and flexible training environment has been the focus of technical training support. With more guests and staff using laptops, PCATT tech support with ITC developed and standardized a method for secure wireless access. To support PCATT classes and staff, a secure tunneling method was developed. Students and instructors wanting to access their Oracle and GIS files have a secure method to tunnel into the applicable server. PCATT laptops were updated following practices used in training.

Automating procedures is another focus for technical training support. The default desktop image was rebuilt for two hardware platforms and with guidance from ITC, an automated method for adding standard users to each computer was set up. Additionally, editing the registry for change prior to installing Microsoft Office on each computer was automated. A default profile was configured that can be used for each account on each computer making it easier to set functions such as browser settings and shortcuts.

Technical documentation is a priority. For this purpose, one of the technicians at PCATT established and organized a Web-based site (mediawiki) hosted in a protected area of the HCC network. Mediawiki is the same software used by wikipedia.org, an international, free, and user-maintained encyclopedia. PCATT’s secure tech site is in active use and serves not only as an organized location for documentation but also is an effective communication base. Although there is still room for improvement, tech workflow has improved. The site is password protected and is available only to those who need this information.

Research for a network upgrade resulted in a major project for a PCATT tech. She evaluated, planned, and gathered specifications for a network upgrade to enhance classroom connectivity and flexibility as well as to allow centralized management of computer labs via Altiris Deployment Solution/Notification Server. Research for Magnolia, an open source enterprise content management
system, was also supported by PCATT staff. PCATT explores and uses technology to the best of its ability.
PCATT GOALS 2005-2006 (Status)

IP Telephony

Offer Cisco IP Telephony for academies in Fall 05.

On May 8, 2005, PCATT offered a Cisco Sponsored Curriculum IP Telephony class. In 2006, PCATT was notified by Cisco Systems that the Cisco Academy was discontinuing the VOIP curriculum in the Academy. PCATT will be looking to develop content in IP telephony based on the knowledge gained through the Academy and through its experience base.

Develop and offer IP Telephony training for business and industry.

An IP telephony training course was held on May 8, 2005. Please see above and page 21 for details.

Marketing

Formalize procedures for the production of an annual marketing plan using the examples set by LERN.

LERN’s marketing approach involved more data gathering than available for the advanced technology market in Hawai‘i. A modified plan for marketing was developed and will be implemented in the coming year.

Initiate e-mail marketing – online newsletter/magazine (eZine) - develop format, topic sections, schedule, and implementation date.

The PCATT eZine was first published in January 2006 as a monthly communication with rotating topic sections including a tech topic, a human interest story, certification information, course updates, event announcements, and a discount coupon. The routing list consists of 729 e-mail addresses.

Look for additional promotion opportunities to publicize PCATT events and activities with the media.

Not accomplished. This is a good idea and a continuing goal that will receive attention in the coming year.

Explore and implement ideas to improve tabloid readership including inclusion of more photos, an info or opinion column written by experts, Board members, and staff, add articles, fast facts, tech tips.
Photos were included in the two most recent issues. The other ideas will be addressed in the coming year.

System Activity

Standardize minimum reporting for system data collection. Disseminate reporting requirements to all campuses.

In May 2006, the PCATT Request for Proposal was revised for the 2006-2007 award cycle, to standardize reporting for awardees of PCATT systems grants. The new RFP format streamlines the RFP process and clearly outlines reporting requirements.

PAW

Fine-tune the PAW project – eventually roll out to all non-credit operations that are part of PCATT. Extend the PAW to non-credit operations at HCC. Implement PAW for HCC continuing education Web site to reduce duplicate Web inputs.

The first step of the project was to extend PAW to non-credit operations at HCC. That proved to be more complex than anticipated. With the cooperation of the other non-credit divisions at Honolulu Community College, PAW should be operational before the end of the calendar year, 2006.

Before extending PAW to other campuses, it would be best to develop a method to connect online registration to the PAW database. This discussion has initiated and will continue.

BICSI

Expand BICSI offerings

PCATT provided the training location for several additional BICSI courses over the past year including:

*DD100, Introduction to Voice/Data Cabling Systems*
*DD102, Designing Telecommunications Distribution Systems*
*DD200 Telecommunications Distribution System Review*

Please see BICSI Section on pages 16 and 17 for more details.
Non-Credit to Credit

Formalize the PCATT training to Credit guidelines (DOD and DOE markets) – conduct follow-up activities to notify appropriate organizations, offices, and individuals of the conversion options.

The following non-credit to credit conversions were approved by the CENT department (Computing Electronics and Networking Technology):

<table>
<thead>
<tr>
<th>PCATT Course</th>
<th>Credit Course Equivalent</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCNA 1</td>
<td>CENT 115</td>
<td>4</td>
</tr>
<tr>
<td>CCNA 2</td>
<td>CENT 140</td>
<td>4</td>
</tr>
<tr>
<td>CCNA 3, CCNA 4</td>
<td>CENT 240</td>
<td>4</td>
</tr>
<tr>
<td>CCNP1</td>
<td>CENT 245</td>
<td>4</td>
</tr>
</tbody>
</table>

To date, two (2) individuals have converted their non-credit courses to CENT credit. An announcement was made in the PCATT eZine about the non-credit to credit conversion. This message needs to be repeated in other venues.

Explore other non-credit conversion options. Current possibilities include CENT, AEC, and CA. Other departments could include ICS.

These options were explored but courses currently do not meet the criteria for course equivalencies. PCATT will review courses on a regular basis to look for equivalent courses which contain a method for evaluation.

Military

Continue to target the military to meet their contract and individual training needs.

PCATT participated in the Armed Forces Communication and Electronics Association (AFCEA) conference. PCATT courses are also approved for Tuition Assistance and Veteran Assistance benefits.

Red Hat

Expand the Red Hat Academy program to include training to prepare individuals for the Red Hat Certified (RHCE) certification. Seek authority to administer the RHCE certification examination. Expand the Red Hat Academy program to neighbor island locations as appropriate.

PCATT is certified to offer courses in preparation for the RHCE certification and has an individual on staff certified to administer the RHCE exam. There has been no interest expressed by neighbor island campuses for Red Hat training. It is possible that enterprise level open source operations requiring Red Hat skills are not yet in demand on the neighbor islands.
CISSP

Begin offering training to prepare individuals for CISSP certification. Currently, two PCATT staff members are preparing for CISSP certification.

Both staff members passed their certification exams on their first attempt qualifying them to teach CISSP. Courses were scheduled for CISSP certification; none have had sufficient numbers for the course to run.

GLN Pilot

Conduct pilot testing of the McGraw-Hill materials for the Fall 2005 semester. Two courses are slated for beta testing: Pre-Algebra and developmental English.

Pursue other activities in support of the GLN project.

PCATT offered the PCATT algebra course in 2005-2006. Cisco is discontinuing the support GLN v2.0 and was introduced to GLN v.3.0, which is currently under development.

Cisco Expansion

Become an authorized training partner to allow for expansion of current Cisco training offerings.

An agreement was signed with Sunset Learning Institute. This partnership provides PCATT with a method to get instructors trained to expand course offerings beyond those available through the Cisco Academy.

3D Printing

HCC/PCATT has been included as one of several sites for a regional consortium for the development of 3D printing curricula to support training programs using this technology. Saddleback Community College in California will be the lead institution coordinating the NSF grant supporting this project. If the grant is successful the following will occur:

HCC/PCATT will acquire a 3D printer to be used in conjunction with the Autodesk training center at the college.

In May 2006, PCATT purchased a Contex DESIGNmate MX 3D printer for the PCATT Autodesk lab. This printer will provide PCATT with the opportunity to enhance the Autodesk programs and create new training opportunities for civil engineers, architects, landscape architects, and planners. It will also provide PCATT with opportunities in other fields requiring 3D modeling technology.
Curriculum will be developed using this technology as it applies to the Architectural Industry.

Although the outcome of the NSF grant is undetermined, the purchase of the 3D printer allows PCATT to begin content development as it applies to the architectural industry in the 2006-2007 year.

Training Partnerships

Explore new training partnerships. Possibilities include: Center for System Security and Information Assurance (Moraine Valley CC – Chicago), Novell, Macromedia, Apple.

Partnerships were started with ESRI for GIS training and Novell for Linux training. PCATT has open communications with Apple, now that the Honolulu office is at full staff. A hands-on podcasting workshop was offered and a mainland speaker gave a lecture/demonstration on Final Cut Studio through the Apple relationship. Additional partnership opportunities will be explored.

Internal Procedures

Implement quick, online surveys to obtain information about customer satisfaction midway through a course, to solicit ideas about new course topics, and to solicit other feedback. Opinion survey results could be published on the PCATT Web site or in our eZine.

Because of a decision to learn to develop PHP based online surveys, this project was not completed. It is targeted to be completed in conjunction with an internship project planned for fall 2006.

Challenges

In July 2005, there was an electrical fire in Building 2 at Honolulu Community College causing an interruption in PCATT’s operations. Equipment was hand carried down five flights of stairs to be set up in areas throughout the campus. Although the building was without electricity for over a month, PCATT was operational in temporary locations within days. A permanent repair and solution was completed in May 2006.

PCATT was able to use its knowledge of technology to continue to operate seamlessly with IP phones and network access. It was an experience where disaster planning and recovery were tested and PCATT’s resilience, flexibility, and ability to rapidly respond to situations were demonstrated.
PCATT 2006-2007 Goals

Regional Workforce Development Needs

A focus for PCATT will be on regional workforce development needs at the county level throughout the state of Hawai‘i. This will allow PCATT the opportunity to address advanced technology workforce needs that are unique to the neighbor islands and to construct a conduit for transferring intellectual capital between neighbor island community colleges.

Increase Accountability for PCATT System Grants

The PCATT request for proposals for PCATT system grants was revised to require campuses to report the number of participants served by their proposed projects. This will assist reviewers in assessing the impact of proposals and help in final reporting on the total number of participants served. It will also focus on increasing the accountability for awards granted through PCATT.

PCATT will also be assessing the effectiveness of the grants program by determining the impact of the grants program on student outcomes vs. the opportunity cost of program.

Continue to Expand on Certification Courses

Implement new certification programs/courses as research and customer needs identify them.

Introduce 3D Printing/Additive Manufacturing to Enhance the AutoDesk Lab – Capitalize on Construction

At the end of the 2005-2006 fiscal year, PCATT purchased a 3D printer from 3D Rapid Prototyping. This was done in consultation with Saddleback College. The purchase of the printer met two (2) objectives. First, the printer enhances Autodesk and CAD courses and offers the opportunity to create new content and applications training for the architecture field.

Second, the printer positions PCATT as an early adopter of 3D rapid prototyping and additive manufacturing with the NSF project that is being submitted through Saddleback College.

The purchase of the printer provides PCATT with the opportunity to showcase exciting advanced technology while allowing PCATT to focus on creating new content in architecture before the start of the NSF project.
Military

Continue the initiative to position PCATT as a chosen training organization for the military and increase offerings to all branches of the military on O'ahu.

Outreach and Support
Continue outreach and support to user groups including Hawai'i Oracle Users Group, Hawai'i Open Source, and IBM WebSphere Users Group. Expand community outreach through professional organizations.

2007 IT Summit

Although a successful event, PCATT will remain vigilant at expanding and working to improve the 2007 IT Summit.

Development Network

PCATT will be investing in a development network that runs parallel the Honolulu Community College Information Technology Center (ITC) infrastructure. The planned network will run IP version 6. Planned services for the network include a new open source distance education learning management system as well as the expanded ability to host current and future development initiatives.

This network is important to PCATT because it will provide PCATT staff with valuable development time working with IPv6 protocol creating future training opportunities. This will allow PCATT to separate development initiatives from systems already in production.
PCATT GRANTS PROGRAM

For 2005-2006, the PCATT System Grants Program distributed funding to other community college campuses within the system to support their advanced technology training initiatives. Funds awards are listed below:

<table>
<thead>
<tr>
<th>College</th>
<th>Grant Title</th>
<th>Award Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaua‘i Community College</td>
<td>Cisco Networking Academy, Photonics, Wireless Networking, Instructor Training</td>
<td>$36,981</td>
</tr>
<tr>
<td>Leeward Community College</td>
<td>Infrastructure, Training Environment, Training Solutions</td>
<td>$52,030</td>
</tr>
<tr>
<td>Windward Community College</td>
<td>Community College Conference (Requesting multi year funding – 2nd year in 2006-2007)</td>
<td>$8,100</td>
</tr>
<tr>
<td>Maui Community College</td>
<td>Lumens Lifelong Learning Management System, Microsoft Academy License Renewal</td>
<td>$59,148</td>
</tr>
<tr>
<td>Hawai‘i Community College</td>
<td>Cisco Networkers Conference, Cisco Networking Academy 2006 Conference</td>
<td>$40,160</td>
</tr>
<tr>
<td>Honolulu Community College</td>
<td>Cisco Catalyst 6500 upgrade of Campus Core Router</td>
<td>$34,576</td>
</tr>
<tr>
<td>Kapiolani Community College</td>
<td>New Media Arts</td>
<td>$12,300</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$243,295</td>
</tr>
</tbody>
</table>