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.
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EXECUTIVE SUMMARY

Aloha PCATT Stakeholders,

2006-2007 was an exciting and dynamic year for the Pacific Center for Advanced Technology Training (PCATT). Our biggest challenge for the year was dealing with a significant number of temporary changes to and reassignments in personnel. Through it all, PCATT surfaced as a more efficient operation.

We started the year with eight primary goals. These included:

1. Focusing on Regional Workforce Development Needs
2. Increasing Accountability for PCATT System Grants
3. Introducing 3D Printing/Additive Manufacturing to Enhance the Autodesk lab
4. Continuing the Success with the IT Summit
5. Building a Development Network at PCATT
6. Continue to Expand on Certification Courses
7. Focusing on serving the Military
8. Expanding Outreach and Support

I’m proud to inform you that we have made significant progress in each of these areas. These goals have long-term implications that speak to the spirit of continuous improvement that permeates throughout PCATT. As a result, I assure that we will continue to monitor and strive for excellence in each of these areas.

The 2006-2007 Year End Report, is itself, a reflection of the changes at PCATT. This year’s report consists of five sections including:

1. Development Initiatives and New Projects (New)
2. PCATT Training (Revised)
3. Current Operations
4. PCATT System Grants (Revised)
5. PCATT Goals and Outcomes

Some of the changes were geography exercises, relocating data to where it best fit the logical flow of this report. However, nestled in this report you will find substantial amounts of additional information primarily on the number of clients served. This holds true not only for the courses offered at PCATT’s main location at Honolulu Community College, but also in reports on the outcomes of system grants.

Financially, revenues continue to slide. However, our effective control of costs resulted in a significant increase to contribution to reserve. In fact, contribution to reserve was the highest since 2002.
In short, I am proud to say that accountability is up, efforts to tie in PCATT’s outcomes to regional workforce and economic development is underway, and we continue to receive the outstanding rating as the premier technology training facility in the state of Hawaii.

However, our work is not done. We can do more to improve accountability. We can do more to provide greater service to regional workforce development initiatives. We can do more to provide greater services to the armed forces, and we can do more to continue to introduce the latest and greatest in advanced technology applications to the state of Hawaii and facilitate technology transfer.

In all, 2006-2007 was a challenging year with exciting outcomes that will push PCATT to achieve even greater achievements in the future.

On behalf of the faculty and staff who have prepared this report and more importantly, has chosen to serve our mission of developing and providing training in advanced technology applications that enhance economic and workforce development in Hawaii and the Pacific Rim, thank you very much for your continued support.

Scott Murakami
Director
I. DEVELOPMENT INITIATIVES AND NEW PROJECTS

IPv6 Project
PCATT initiated the IPv6 project to explore the next generation Internet protocol and develop in-house expertise applicable to training. The project was motivated by increased interest in IPv6 from the United States military as directed by the Department of Defense.

This is a planned three phase project. Phase one, completed in February 2007, consisted of setting up a lab space, acquiring an IPv6 global address assignment, and testing basic connectivity. With a target completion date of October 2007, phase 2 still is ongoing and consists of establishing security policies for both client and server networks as well as setting up a public DNS presence. The third phase consists of integrating IPv6 DNS records into the standard campus DNS system and rolling out a dual stack network for selected campus staff. Phase 3 has a target completion date of December 2007.

Upon completion of the three phases of the IPv6 project, PCATT will be prepared to offer experience based training in IPv6 protocols, IPv6 migration paths as well as IPv6 security issues.

Moodle Project
The goal of this project is to develop expertise in deploying a small-scale Learning Management System (LMS), creating classes, and creating course materials in Moodle, an open-source course management system. PCATT has implemented a Moodle server, and has successfully run courses in Security+ and CISSP using Moodle to post training materials.

In February 2007, PCATT and PowerEd sponsored a training session in Moodle. Attendees included PCATT staff, staff from the Myron B. Thompson charter school, and staff from the state of Hawai‘i Department of Education.

A major outcome of this project was encasing the PCATT Algebra course content (formally the CISCO GLN Algebra Course) in a Shared Content Object Reference Model (SCORM) wrapper, and deploying the course via Moodle. After investigating several different products for the conversion to SCORM data, Dreamweaver with the L5SCORM plug-in was chosen as the most usable. The overall design of the SCORM pages has been completed and conversion of the individual modules is proceeding.

Virtual Reality Project
This project is an investigation into the feasibility of fostering interest in 3D presentations for use by commercial companies in Hawai‘i. EON Reality is an international leader in the 3D presentation software and equipment market. In May 2007, PCATT faculty received training on the capabilities and uses of EON
Reality’s systems. This project ties in with the 3D printing project, provides a new area for training, and introduces a new technology in the state of Hawai’i.

3D Printing and Rapid Prototyping Project
PCATT continues to improve proficiency in 3D modeling, rapid prototyping and additive manufacturing. Professor Michael Jennings is serving as the Principal Investigator for “Rapid Tech”, a National Science Foundation Grant awarded to Saddleback Community College in Mission Viejo, California and sub-awarded to Honolulu Community College/PCATT.

PCATT, through Professor Jennings’ project will create 3D printing curriculum in the field of architecture for credit and non-credit programs. The curriculum will be made available free of charge through Saddleback Community College and the National Science Foundation Undergraduate Education Advanced Technology Education Program.

Securing Unified Communications
Cisco Systems is currently a leader in prototyping and developing security solutions specifically addressing unified communications. New versions of the operating system permit integration of IP PBX’s with IOS firewalls, giving customers the option of deploying one box instead of two or more boxes for the purposes of routing, firewalling, and enabling IP voice and video communications.

PCATT faculty member, Dr. Wayne Lewis, has been collaborating with Cisco Academy colleagues in the U.S. and Canada to learn best practices for securing unified communications. This includes, but is not limited to, deploying a topology integrating Cisco IOS Firewall, Cisco Unified CallManager Express 4.2, Cisco IP telephones, Power over Ethernet switches, Adtran Atlas 550 (for PRI/PSTN/PBX functionality), and Cisco 2811 series routers.

The goal of this effort is to keep PCATT at the forefront of networking technology, which is now inextricably linked to voice and video communications over IP. Once curriculum is released for securing unified communications, PCATT will be ready to train local businesses to better secure their critical voice infrastructure.

VMware/Server Set-up Project
The use of virtual servers gives PCATT the ability to test and develop expertise in new applications while limiting the need to invest resources in new equipment. As a project matures and requires more resources, it can easily be migrated to another server.

To date there are five virtual machines running on the server:
1. Development Moodle server –
   (http://moodledev.hcc.Hawai‘i.edu/moodle17/) Apache/PHP server with Moodle installed. Used for training in the use of Moodle and experimentation.
2. Development Moodle MySQL server – MySQL server to support the development Moodle Apache server.
3. Production Moodle server – (http://training.pcatt.org/moodle/) Apache/PHP server with Moodle installed. Used to enhance PCATT courses with an online component.
4. Production Moodle MySQL server – MySQL server to support the production Moodle Apache server.
5. PCATT Projects server – LAMP server used to host the PCATT Projects database project.
II. PCATT TRAINING
A. PCATT Course Offerings

**Cisco Academy- 102 clients trained in Cisco Academy Courses**
The Cisco Networking Academy Program at Honolulu Community College continues to be one of the premier IT Certification training programs in Hawai‘i, offered by PCATT. Through PCATT’s status as a Cisco Academy Training Center (CATC), Honolulu Community College continues to receive substantial support from Cisco including equipment donations and instructor training.

“I really like the ability to be able to access materials online. For example, reading materials, powerpoint presentations, Cisco assessments, and netlab. I also like the amount of time given to complete labs.” - Comment from course evaluation for *CCNP 5.0: Building Scalable Cisco Internetworks (BSCI)* taught by Dallas Shiroma

“i liked the hands-on learning. i like actually seeing and holding the hardware and getting my hands dirty. derek really knows his stuff. great instructor and very helpful.” - Comment from course evaluation for *IT Essentials I: PC Hardware and Software (A+ Certification Preparation)* taught by Derek Smith

**Red Hat Academy – 19 clients trained in Red Hat Academy Courses**
Red Hat continues to dominate the GNU/Linux operating system market, especially for the enterprise. PCATT at Honolulu Community College is the only location in Hawai‘i authorized to offer training and testing for the Red Hat Certified Technician (RHCT) and Red Hat Certified Engineer (RHCE) certifications.

Red Hat has yet to deliver curriculum for the final course in the RHCE certification preparation track, *Red Hat Linux Security Administration (RHA 250)*. PCATT is also acquiring Red Hat Enterprise Linux 5 curriculum to keep training current. Enrollment numbers will increase with the full spectrum of course offerings and the offering of the current version of Red Hat for training.

“Hands on knowledge and information pertaining to Linux and Red Hat Linux given throughout the course. Instructor added additional information beyond the scope of the course which was helpful to the subject matter.” - Comments from course evaluation for *Red Hat Linux Computing Essentials* taught by Aldrin Caraang

**Novell Silver Partner**
In contrast with Red Hat, PCATT offers just one Novell course and although it is regularly scheduled, it has not run in the last year. This course covers the objectives outlined by CompTIA for its Linux+ certification. PCATT continues to
work with Novell to help market SUSE Linux and provided a site for Novell vendor training in December 2006. Novell representatives make regular sales calls to Hawai‘i and visit PCATT to provide updates on each trip.

**Autodesk Academy - 31 clients trained in Autodesk Academy Courses**

Last year (2005-2006), PCATT purchased a Contex 3D printer, introducing 3D rapid prototyping and additive manufacturing to Honolulu Community College and the University of Hawai‘i System. In July and August of 2007, PCATT Autodesk Manager, Professor Mike Jennings, attended training in the use of Materialize Magics software to increase PCATT’s expertise in 3D modeling through .stl file manipulation.

In addition to the 3D rapid prototyping and additive manufacturing, Autodesk courses were upgraded during the 2006-2007 year to offer the 2007 suite of courses. Please refer to the AutoCAD section under First Time Course Offerings for a comprehensive listing of course upgrades. Autodesk courses are primarily attended by people employed at architectural firms or in related industries such as engineering and landscaping.

**Geographic Information Systems (GIS) – 18 clients trained in GIS courses**

PCATT continues its partnerships with ESRI and Intergraph to provide business and industry with a training choice between the primary producers of GIS software. ESRI produces ArcGIS and Intergraph produces GeoMedia. Although the demand for GIS training is not overwhelming, PCATT sees an increased use by segments of the population that indicates a continued workforce development need for this training. PCATT’s GIS instructors are affiliated with ESRI and Intergraph so they teach with experience and the latest information about their proprietary software.

**Oracle - 34 clients trained in Oracle courses**

Oracle continues to offer the Oracle Workforce Development Program (WDP), which enables participating non-credit educational organizations, like PCATT, to deliver Oracle training to students 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

PCATT originally offered Oracle 8i database administrator courses, follow by Oracle 9i database courses. Upon the release of Oracle10g, these database administrator courses were offered in 2005. Insufficient student numbers resulted in these courses being cancelled and another cycle of Oracle 9i database
administrator courses were offered. The Oracle 10g cycle of database administrator courses began in September 2006 and ran until June 2007. The Oracle 10g database administrator course will continue to be offered.

In addition to Oracle training, PCATT has provided classroom space to the Hawai‘i Oracle Users Group for their quarterly meetings.

**Security+ and CISSP training - 10 Marines trained in Security + and CISSP**

A five day Security+ test prep and training course was held the week of June 18 - 22, 2007. This was a customized class for the US Marine Corps, developed and team taught by Bill Becker and Dallas Shiroma.

The Department of Defense Directive 8570.1 mandates that personnel working in key and information assurance areas receive certification. The Security+ and CISSP training is a major part of this effort. PCATT is positioning itself as a major provider of training for certification in the security areas.

Bill Becker and Dallas Shiroma also taught a CISSP exam prep course for Department of Defense personnel.

> "Every time an instructor talked about a concept, we were given a chance to put to actual use via lab." - Feedback on Security+ course team taught by Bill Becker and Dallas Shiroma

**Microsoft Academy - 15 clients trained in MCSE courses**

PCATT continues to participate in the Microsoft IT Academy Program as a local academy. Academy status gives PCATT access to the Microsoft Official Curriculum used in both PCATT and in the Honolulu Community College credit Computing, Electronics, and Networking Technology program and gives PCATT the ability to use the Microsoft IT Academy logo on marketing materials.

The current Microsoft course offerings at PCATT include a *Microsoft Windows Server 2003: Core and OS* course and *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 receive strong student evaluations.

> “We had some fun and were exposed to a good deal of practical knowledge. I really enjoyed today’s troubleshooting event. It pulled together many of the concepts covered earlier.” - Comment from course evaluation for Therese Nakadomari, *Microsoft Windows Server 2003: Core and OS*
BICSI - 16 participants trained in BICSI courses

The Building Industry Consulting Service International, Inc. (BICSI), 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.

Since 2005, PCATT has operated a certified BICSI cabling laboratory offering BICSI cabling courses in partnership with CrossBow Communications, an IT training and consulting company located in San Jose, California. CrossBow is a multiple site license holder for BICSI training and is providing the site license and a large amount of classroom cabling supplies and material for the training. PCATT provides the equipment, tools and the instructor needed for the training. A revenue sharing agreement has been established for the partnership.

Three levels of BICSI cabling courses have been offered

- BICSI Installer Level I 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 year with limited success. Construction is so strong on Oahu that contractors feel their technicians are too busy to attend training.

PCATT continues to partner with the BICSI corporate training office in offering classroom BICSI courses. BICSI provides the instructor, training materials and registration, and PCATT provides the training location.

Instructor Training - 14 Instructors trained in Cisco Academy

Certified instructor training was conducted in version 3.1.1 of CCNA 2, CCNA 3, and CCNA 4. Participants in these fourteen day courses included faculty from Honolulu Community College, PCATT, Kapa’a High School, Waipahu High School, and Castle High School.

The new Cisco Academy *IT Essentials* course that prepares students for the A+ certification, was taught to instructors from American Samoa.
PCATT continually offers new courses, either in response to customer requests or from PCATT’s knowledge of workforce needs and emerging technologies. PCATT will not only teach the latest versions of an application but will also help companies transition from one version to the next. Listed below is a summary of new offerings for fiscal year 2006 - 2007.

**Networking:**
- IT Essentials II (Network Operating Systems)
- IPv6 Bootcamp
- CCNP 5.0: Building Scalable Cisco Internetworks (BSCI)
- Cisco Unified Wireless Networking (CUWN)

**Security:**
- Wireless Laptop Access: What’s Secure and What’s Not
- Computer Maintenance and Security for Novice Users
- Security+

**AutoCAD:**
- AutoCAD 2007 Essentials (Upgrade from AutoCAD 2006)
- AutoCAD 2007 Customizing the Interface
- AutoCAD 2007 Printing and Plotting
- AutoCAD 2007 Designing and Managing Dynamic Blocks
- AutoCAD 2007 Creating Intelligent Tables and Schedules
- AutoCAD 2007 Conceptual Design
- AutoCAD 2007 Creating 3D Models
- Autodesk Revit Building 9 Essentials (Upgrade from Building 8)
- Autodesk Revit Building 9 Advanced

**GIS:**
- Introduction to Geographic Information Systems (GIS)
- Cartographic Design (Using ArcGIS)

**Telecommunications:**
- Introduction to Telecom
- IP Fundamentals and Workshop
- Metro Ethernet Fundamentals and Workshop
- Packet Video Fundamentals and Workshop
- DS1/HDSL Fundamentals and Workshop
- VoIP Fundamentals and Workshop
- Outside Plant Fiber Fundamentals and Workshop
“I got the theory I did not know. I got to use newer equipment.”
- Comment from course evaluation for Fiber Optics Essentials taught by Stan Kubota

**Graphic Design:**
Introduction to Graphic Design
Introduction Series for Adobe Creative Suite 2
Next Level Series for Adobe Creative Suite 2

“The lab facilities are excellent and comfortable. The teacher is very talented and inspiring. She is very knowledgeable and able to teach us all even though the students in the class were all in different levels of ability.”
- Comment from course evaluation for Wendy Hakoda, Introduction to Adobe Illustrator

**Video and Web:**
Windows Movie Maker
iMovie and iDVD
Digital Video Editing
Principles of Nonlinear Video Editing
Principles of Digital Storyboarding
Webmaster Workshop (WOW)

**Music:**
iPod and iTunes
GarageBand
Digital Music Production with Professional Tools

**Programming:**
Introduction to PHP and MySQL on Windows
J2EE – Web Component Development with Servlet and JSP Technologies

“Definitely gave a very good introduction into the J2EE technology. Was able to use this info immediately on the job!! The timing was fantastic for me!!” - Comment from course evaluation for J2EE Web Component Development with Servlet and JSP Technologies taught by Monir Hodges.

**Professional Development and Business Applications:**
Secrets of Blogging for Money
Creative Interactive PDF Forms
Digital Portfolio Seminar
Basic Hydraulic Understanding and Troubleshooting
InTouch® HMI 9.5 Fundamentals of Application Development
Buying and Selling with eBay
Scripting with Filemaker Pro
Transitioning to Office 2007
II. PCATT TRAINING
C. Other Training Activities

Contract Training
Although contract training was below expectations, groups for which contract training was provided included important and targeted customers for PCATT. These include the military and a major telecom provider.

Solaris 9 System Administration I
Pacific Air Force Command, Hickam
September 25 to November 1, 2006

UNIX Refresher
Hawaiian Telcom
October 23 - 25, 2006

Security+
Marines 3rd Radio Battalion
June 18 -22, 2007

Training Facilitation
Through training facilitation, PCATT uses its technical expertise to support companies, industries, associations, government, and non-profits so they can conduct their own employee and member training. This fiscal year, PCATT supported forty three training events and meetings.

Overall, 86% of the users rated their satisfaction as a 5 on a scale of 1 to 5 with 5 as the highest and 1 as the lowest. 14% rated their satisfaction level at a “4.” Quality of services, customer service, and safety of the facilities were similarly rated. 100% of respondents listed their satisfaction level at a “5” when it came to “Responsiveness to requests” and “Quality of equipment support.”

Examples of companies and groups are listed below. Providing training support has led to referrals, enrollments, and partnerships with mutually beneficial results.

Corporate
Great Northwest Insurance
Dranetz – BMI
Skyline Advanced Technology Services
Wonderware
Novell
Corning Cable Systems
Sandwich Isles Communications
Dentrix Dental Practice Management Software Systems
Industry and Associations
Building Industry Association
Hawai‘i Oracle Users Group
BICSI

NonProfits/Government/Education
The Nature Conservancy
Hawai‘i Alliance for Non-Profit Organizations
Rural Health Division
Kamehameha Schools, Extension Education Division
Early Childhood Symposium for UH Manoa

“The PCATT facility is a great resource for Hawai‘i businesses. They offer a convenient location and world class facilities for training on the latest computer software applications. If we can keep these labs busy and full Hawai‘i will have a much more competitive workforce.” - Keith Webster, President, Keystone Integration LLC

Testing and Proctoring
PCATT continues to offer both high stakes server based and online testing (ACT, VUE, PAN/TSA) as well as testing and proctoring services including the National Board of Examiners in Optometry, BICSI, the American Dental Association, and the North American Board of Naturopathic Examiners.

High stakes exams include IT certifications that support PCATT’s training objectives, as well as professional certifications for Social Workers (ASWB), Automotive Repair professionals (ASE), certifications for Athletic Trainers, and for the Nuclear Medicine Technology Certification among others. The use of technology to deliver testing in Hawai‘i for working professionals fits a core competency of PCATT. Some of these exams are available only through ACT Centers, one located in Hilo at Hawai‘i Community College, one at Maui Community College, and one at Honolulu Community College. In the last fiscal year, a total of 761 exams were proctored through ACT, PAN, and VUE at Honolulu Community College.
PCATT hosted its fifth annual IT Academy Summit on May 24-25, 2007. The theme of this year’s event was “Ride the Wave – Leveraging Today’s Technology for Improved Communications”. Approximately ninety attendees participated, including private and public high school teachers, community college instructors and DOE IT and Curriculum Specialists, twenty-one from the neighbor islands.

As with previous IT Summits, several objectives were met during the conference. 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.

Keynote speakers for this year’s event included Frank Callaham, Apple Development Executive for Information Technology and Scott Kennedy, Microsoft Solutions Specialist. For the forth 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 new Cisco curriculum, overviews of Windows Vista and Microsoft Office 2007, Podcasting utilizing GarageBand and iWeb, Moodle Content Management System, Education in Second Life, Introduction to Wiki, 3D Modeling/Rapid Prototyping, Desktop Linux, SketchUp, IPv6, and an Introduction to Digital Signage.

The evaluations received indicated that participants found the Hawai‘i IT Academy Summit informational and worthwhile. They felt that the sessions covered a wide variety of topics and provided them with exposure to cutting-edge technology.
On May 21-23, 2007, PCATT in collaboration with Apple, Inc. held the first PCATT/Apple Summer Institute. The workshops were free and targeted to Hawai’i’s educational community so they can learn about the latest digital trends.

This event was held on the Honolulu Community College campus and was open to Administrators, Tech Coordinators, Teachers and Technicians in the K-20 community who are interested in utilizing Apple technology to maximize productivity. A special half-day Administrators-only track kicked off the event on May 21. Sessions on May 22 and May 23 provided participants with the skills to incorporate Apple’s latest technology into their classrooms or offices. Topics included the following:

**Track 1 – Virtually There** (Educators, Administrators)
Provided participants with the opportunity to explore current and developing methods for deploying rich educational content to students.

- Podcasting and the Web
- Podcasting Results
- Delivering Rich Content via the Web
- Podcasting Backbone

**Track 2 – Maximum Mac** (Educators, Administrators, Technicians new to Macs)
Geared towards new Mac users, those considering a switch to Mac, and even experienced Mac users who are looking for tips and tricks to use their Macs more efficiently.

- Mac 101 – Spotlight, Dashboard, iChat, Smart and Burn
- Digital Media 101 - Sharpening your digital skills using the multimedia suite, iLife ’06.
- iWork 101 - The power of iWork and how it integrates with iLife.

**Track 3 – Kick It Up a Notch!** (Educators, Administrators)
This track took participants through the basics of Apple’s most popular professional applications.

- Apple Pro Apps in the Academy
- Aperture Primer
- Final Cut Primer
- Soundtrack Pro

**Track 4 – Podcasting** (Educators, Administrators)
This track was for educators wanting to explore podcasting.
Produce Your Own Podcast (A and B)
iTunes U

Track 5 – Symbiosis (IT and the Technically-oriented)
This lecture format track was geared towards technologists wanting to learn how to support Apple servers, mixed platform, and video production environments.

Apple Server Technologies: A Forward Look
Apple Multi-Platform Support
XSAN
OS X Deployment Basics
III. CURRENT OPERATIONS
A. PCATT General Operations

In 2006 and 2007, PCATT continued to streamline and improve operations. This year posed a number of unique challenges for PCATT particularly in Personnel. There were a number of temporary changes to PCATT personnel in support of the Honolulu Community College operation. 2006 and 2007 also saw a number of significant changes in operations that represent investments that will help PCATT maintain a leadership position in advanced technology training in Hawai‘i.

“Doing business with PCATT is a breeze. The Staff is friendly, courteous, and professional. The facilities are top-notch. We value the partnership we’ve established with PCATT in providing Novell SUSE Linux training. You are the premier training facility in Hawai‘i.” - Brian Hervey, Client Executive, Novell Inc.

Personnel

In 2006-2007 PCATT witnessed a number of personnel changes that resulted in disruptions to normal operations. Approximately 28% of PCATT’s eighteen positions were impacted by various personnel actions. Given PCATT’s small size, these actions had a significant impact on operations. Similar to other business entities in Hawai‘i, these personnel actions were compounded by Hawai‘i’s lower unemployment rate resulting in difficulty finding qualified personnel to fill vacant positions.

As of June 30, 2007 PCATT Business Manager APT position remains vacant. Ms. Patricia Rae Trienen is on temporary assignment to fill this position.

August 1, 2006 to January 31, 2007 – Dr. Wayne Lewis, Lead Cisco Instructor was on Sabbatical Leave.

December 2006 – Ms. Clara Bantolina, Secretary to the PCATT Director, was appointed to the Chancellor’s Executive Secretary position.

January 2007 – Ms. Germaine Tsukamoto, Registration Clerk, was promoted to the Secretary to the PCATT Director.

January 2007 to June 2007 – Mr. Jerry Cerny, PCATT Programs Director was on temporary assignment as Honolulu Community College's Interim Vice Chancellor of Academic Affairs.

January 2007 to June 2007 – Ms. Grace Funai, Counselor at Honolulu Community College, was temporarily reassigned to serve as the Interim PCATT Programs Director.
Marketing
As a consortium of the University of Hawai‘i Community Colleges, the marketing goal for PCATT is to place the PCATT name out in the general community to reach the decision maker, the individual in need of training, and potential customers in the target market.

Each year, Communication Arts majors from Honolulu Community College present their ideas for PCATT’s annual marketing theme. PCATT staff selected “IT makes sense,” a play on the words “I.T.” or Information Technology combined with how we learn and experience our world through our senses.

Print Media
Print advertisement placements are based on target markets. Other considerations are the number of pass-along readers and the length of time people hold on to or use the publication. For the fiscal year 2006 to 2007, ads were placed in business, technology-centered, and military publications.

1. Pacific Business News
2. Pacific Business News Book of Lists
3. Hawai‘i Business Magazine
5. Hawai‘i Military Magazine
7. American Council of Engineering Companies of Hawai‘i Membership Directory
8. Building Industry Association - Hawai‘i Membership Directory

Additionally, PCATT prints and distributes a quarterly schedule of courses with a direct mailing to 1,900 homes and businesses. Copies are also delivered to locations that require printed schedules such as military education offices, libraries, Workforce Investment Board offices and outlets, Employment Training Fund offices, and other venues. A selection of approximately 150 courses is listed in each issue representing offerings from all of the campuses including a selection of online courses.

Television/Radio
On September 12, 2006, Mike Jennings represented PCATT on the KOHN Channel 2 Morning Show with Kirk Matthews. His topic was 3D modeling and rapid prototyping. Bill Becker continues to host a Tech Tip for PCATT on “Flavors of Technology” which airs 9 times each week on cable channel OC 16. PCATT Director, Scott Murakami, was interviewed for an hour-long program about technology training and PCATT as part of a series, “Topic Hawai‘i.” This series is funded by an Olelo grant and airs on O‘ahu, Kaua‘i, Maui, and Hawai‘i on channel 55.
Web Marketing
With its tech savvy audience, PCATT’s Web site is a significant factor in marketing and providing customer service. Besides providing a means of communication with the public, the site lists the training schedule, information about partnerships, testing services, funding resources for training, new activities, and information for visitors to Hawai‘i. PCATT staff can easily add and update courses and schedules for a dynamic listing.

Traffic on the site has increased significantly. In the last fiscal year, PCATT had 12,892 unique visitors. In the 2006-2007 fiscal year, there were 16,608 unique visitors, an increase of 28.8%. In the previous year, these visitors looked at 362,931 pages. In 2006-2007, the number of pages viewed was 401,388, an 11% increase.

To generate more traffic, links were created between PCATT’s site and other sites. For example, for visitors we have a link to a site that provides information about activities for visitors to Hawai‘i. This site in turn has a link to the PCATT Web site called “Technology Training in Hawai‘i.” www.thingstodoinHawaii.org

PCATT is also listed as a resource at the High Technology Development Corporation’s site, is listed with bizjournalsdirectory.com in the Corporate Training Section for Honolulu, and www.search-hawaii.com.

PCATT eZine
The PCATT eZine, an electronic newsletter, is sent monthly to people who have requested to be on the distribution list. The eZine contains tech updates, information about upcoming training and events, success stories, and other short bits to keep people up on technology. Distribution has increased from 729 last year to a current list of 916 people.

Referral Building - Site Visits and Tours
Having people visit a PCATT facility provides visual reinforcement of the array and depth of training opportunities available through PCATT.

- Hawaiian Telcom: Thomas Pipal, Director, Organization Development and Training
- Hawaiian Telcom: Les Miyamoto, Corporate Account Manager
- U.S. Congressmen Neil Abercrombie’s Office Staff: Keala Tamura, Congressional Liaison
- Booz Allen Hamilton: Gregory Fleming, CTR USA IMCOM-Pacific Region
- Cisco: Paul Barbosa, Systems Engineering Manager (San Diego/Hawai‘i Commercial)
- Grace Pacific Roadway Solutions: Jason Kimura, Information Systems Administrator
- Pacific Electro Product Sales: Steven Ro, President
• Empowered Internet Solutions: Thomas Trenz, Director of Business Development
• Creative Resources, Inc, Apple Certified Macintosh Support & Training: Jason Yoshioka, Manager, Hawai’i
• 3D Innovations, LLC: Colin Kobayashi, President and CEO
• Air Gas Gaspro Inc.: Wesley Cheung, Controller
• Lees Carpets: Herb Oshiro, Manufacturing Agent
• Korean University Consortium: Professors Lee and Park
• Building Engineers: Bill Bates, Summit Day Operations Lead, Keck Observatory

Seminars and Workforce Development Events
Participation as an exhibitor at seminars and events provides PCATT with an opportunity to interact face to face with both prospective and current PCATT clients. PCATT can share information about projects such as 3D Modeling and Rapid Prototyping where seeing and touching an actual 3D model can be experienced. Animation projects from Kapi'olani Community College are shared showcasing PCATT as a consortium of community colleges building on the strengths of each campus.

• Home Entertainment and Technology Expo - August 31 - September 1, 2006
• Society of Human Resource Managers (SHRM) Conference - October 2, 2006
• AFCEA TechNet Asia Pacific - November 7 - 9, 2006
• University of Hawai’i Day at the Capitol - January 19, 2007
• Science Bowl - January 27, 2007
• Tech Talk - February 9, 2007
• Oceanic Time Warner Technology and Internet Expo on O’ahu - April 13, 2007
• Oceanic Time Warner Technology and Internet Expo on Maui - May 11, 2007

Associations and Memberships
As intended, memberships in professional associations provide PCATT staff with learning and networking opportunities. In turn, association members learn about PCATT and its training and development activities. Associations have also afforded PCATT with advertising and promotional venues at conferences and in their member directories.

• Armed Forces Communications and Electronics Association (AFCEA)
• Building Industry Consulting Service International, Inc. (BICSI)
• Chamber of Commerce of Hawai’i
• Hawai’i Science and Technology Council
• National Coalition of Advanced Technology Centers (NCATC)
• Pacific Telecommunications Council (PTC)
• Society of Human Resource Managers (SHRM)

Additionally, PCATT works collaboratively with various groups such as the Hawai‘i Oracle Users Group, Hawai‘i Open Source Foundation, Association of Information Technology Professionals, BICSI, High Technology Development Group, and others to co-sponsor or co-locate events.

**Military**

The PCATT staff continues to put effort into attracting active duty and VA military students into PCATT courses and programs. Extensive mail, email 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. Schedule of courses are hand delivered to the bases not served by the HCC Off-Campus Program.

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: Cabling and Fiber Optics, Cisco, Microsoft, Red Hat and Linux, Oracle, and 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 comprehensive audit of PCATT this May. Following the 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 Ms. Germaine Tsukamoto, PCATT Secretary and Non-Credit VA Clerk, for her knowledge and attention to detail in maintaining required VA student files.
III. CURRENT OPERATIONS  
B. Operational Efficiency Improvement Projects

“The administrative staff was very proactive on ensuring the (sic) this class was available and kept me posted on any changes on this course.”  
- Comment from course evaluation for GIS Skills for Hawai‘i (Using ArcGIS)

PCATT Automated Web Site (PAW)  
The PCATT Automated Web Site (PAW) project has accomplished its major goals with the ability to dynamically post courses and export course information for a printed schedule. PAW has demonstrated that single campus courses can be extracted for posting at a separate Web site. The basic structure of this project allows PCATT to expand its use for job postings, new information, and others to be determined. As is PCATT’s practice, the Web site will be reviewed for continuous improvement.

Evaluation Instruments  
The online evaluation instrument for courses implemented in the previous fiscal year is working well for PCATT. The area in need of improvement is the “human factor” where instructors forget to have students complete the evaluation. PCATT will implement a reminder program for instructors.

Overall, open enrollment courses are highly regarded by participants. A summary of evaluations is as follows:

On a scale of 1 to 5 with 5 as the highest and 1 as the lowest:

- Classroom Facilities: 4.59
- Registration Process: 4.56
- Instructor’s Subject Mastery: 4.70
- Instructor’s Level of Preparedness: 4.57
- Instructor’s Ability to Communicate: 4.60
- Instructor’s Interaction w/ Class: 4.67
- Overall Instructor Rating: 4.70

Office Efficiencies  
With the changes in office staff, PCATT needed a method to maintain quality control while training new staff. Documentation for procedures was updated and placed on Magnolia for the PCATT Automated Web site and standard procedures were placed on a shared network site. Detailed checklists were developed for common operational activities to maintain operational quality. Examples include detailed lists of what to do when a class is cancelled and how to prepare for a class that is in session.
PCATT Projects Database
The PCATT Projects Database is a MySQL database with a PHP driven Web
interface used to catalog PCATT projects. The Web interface has been tested.
Several bugs and enhancements were identified and fixed. The project is
awaiting more widespread use.

Technology and Equipment
As reported last year, 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
- Equip and maintain efficient tech equipment and lab environments
- Speak from experience using sound pedagogical techniques
- Follow industry standards, taking the lead as appropriate

In the area of regularly scheduled training, changes in curriculum and training
delivery require constant attention to lab environments. For example, Oracle 9i
and early versions of Oracle 10g curriculum ran on Windows and a Windows or
Sun Server. New Oracle 10g curriculum runs entirely on a Linux operating
system, CENT OS. Cisco curriculum was upgraded requiring new hardware and
a different network environment. These changes require PCATT’s techs to be in
communication with instructors and tech coordinators.

Having the ability to operate different courses in the same lab over a short period
of time is another challenge that requires technical expertise, planning, and
communication, especially when working with outside companies with
specialized high-end technology needs. For example, we may have a Cisco
Unified Wireless Networking course in the day, a Microsoft Server course at
night, the same Cisco course during the day, and an Adobe Acrobat course at
night, all in the same lab.

Purchases now involve recommendations from the Information Technology
Center to meet campus and industry standards, PCATT’s tech staff to assure
compatibility with existing and future needs, and the tech coordinator who knows
the curriculum.

A research lab was created to provide an environment for PCATT staff to work
on development projects. Tech staff assisted in selecting equipment and
planning and installing raceways, cabling, and network connections. The
research lab is operational and proving to be a valuable asset to PCATT where
IPv6, virtual server projects, virtual reality, and other projects are being
developed.
PCATT’s tech staff is instrumental in planning, implementing, and maintaining appropriate equipment and lab environments according to industry standards and sometimes setting new standards.

**IP Telephony**
PCATT’s IP Telephony network is running smoothly, however some improvements are needed. Most important is the need for a disaster recovery plan. Progress on this project is slow and could be supported by further training on the Cisco Call Manager and Unity Messaging systems.
IV. PCATT COMMUNITY COLLEGE GRANTS

During the 2006-2007 fiscal year, PCATT awarded $246,171 in grants to the community colleges. This year, the PCATT RFP and grant process was changed. An earlier submission date was requested for responses to the RFP, and an earlier award date was honored to provide recipients with more time to accomplish the stated goals of the grants.

Over the past two (2) years, it has become clear that the PCATT RFP suffers from issues inherent to short term planning. As a result, much of the PCATT Grant Awards became a source of funding to subsidize departmental equipment purchases.

The 2007-2008 fiscal year is scheduled to be the last year for the PCATT RFP. 2008-2009 will see a significant change in administering these funds with a move from short term RFP/grant funding to longer-term workforce development plans in advanced technology fields.

The workforce development plans will focus on funding projects that support regional economic workforce development initiatives. The suggested advanced technology workforce development plans will incorporate advanced technology workforce issues addressed in the State of Hawai‘i Workforce Development Council’s Report to the Governor and the county Comprehensive Economic Development (CED) Plans along with employer feedback to impress support for colleges through community based workforce development outcomes.

By focusing on county specific needs through the CEDs, regional economic and workforce development issues are addressed. This will result in greater involvement in project funding at the county level leading to funding decisions better coordinated with ongoing economic and workforce development initiatives.

The 2006-2007 fiscal year grants yielded the following outcomes:
IV. PCATT COMMUNITY COLLEGE GRANTS
A. Kaua‘i Community College

Funding: $43,367

Workforce Impact:

- Video Conferencing System: 9 students in 18 video conferencing classes
- Cisco/IT: 42 Students served in CCNA
- Photonics and Optics: 5 students
- AutoCAD: 40 scheduled for 2008

Real Time Assessment tool for Nursing Students
Nursing faculty developed an assessment tool to effectively measure student learning in the classroom environment. At the conclusion of the Spring 2007 Semester, ten (10) assessments were conducted on each of the 32 first year Nursing students - a total of 320 assessments.

New Video Conferencing System at the Kaua‘i Performing Arts Center
From March to June 2007, 19 video conferencing sessions were conducted at the Performing Arts Center which served a total of nine people. These sessions included 18 video conference classes with five students enrolled and one legal deposition session to California involving four people.

Kaua‘i CC is currently discussing a Community Health and Wellness Fair with an anticipated attendance of 300-500 people that would include video conference presentations with experts from Japan.

Support for Cisco Academy and Kaua‘i CC Photonics Program
PCATT funding for instructor training enabled Kaua‘i CC’s Technology Division faculty to attend the following:

- Fluke Wireless LAN Troubleshooting and Management workshop (March 22, 2007)
- Apple Summer Institute at Honolulu Community College (May 22-23, 2007)

PCATT funding was also used to purchase new software and equipment to align the Cisco Networking Academy at Kaua‘i CC with upgrades in the Cisco curriculum. A total of forty-two students were served - 33 in CCNA level courses and 9 in other IT courses.

Basic photonics and fiber optics equipment were acquired to provide more individualized interactive training and hands-on work in the laboratory.
addition, laser safety evaluation software was purchased to confirm lab safety calculations. Photonics courses were offered on an experimental basis to 5 students. Fiber optics was not offered this year.

**AutoCAD 2008 Training**
The purchase of site licenses and memory upgrades were completed prior to the close of the fiscal year. At the time of purchase however, Office of Continuing Education and Training (OCET) learned that the release of AutoCAD 2008 was available for the identical price as the 2007 version. Consequently, the decision was made to purchase the more current 2008 AutoCAD software and thereby extend the useful life of the training.

OCET will schedule four AutoCAD training classes in 2008 and anticipates training a total of 40 participants. This AutoCAD training schedule will be repeated on an annual cycle.
IV. PCATT COMMUNITY COLLEGE GRANTS

B. Hawai‘i Community College

Funding: $30,505
Workforce Impact: Investment for Fall 2007

AutoCAD Training:
- Credit: 38
- Non-credit: 19
- Apprenticeship: 15
- Corporate: 20

Due to changes in administration and a subsequent project rewrite and significant project changes, a late award date resulted in insufficient time to roll out new AutoCAD classes for 2007. However, the PCATT investment into the Hawai‘i CC AutoCAD lab will fortify this program in preparation for student enrollment from the Construction Academy.

The goal of this project was to build the capacity of Hawai‘i Community College’s Architecture, Engineering and CAD (AEC) Technologies Program and train credit AEC students, apprentices, and incumbent workers in the latest technological skills using the AutoCAD application.
IV. PCATT COMMUNITY COLLEGE GRANTS
C. Leeward Community College

Funding: $32,158
Workforce Impact: Digital Storyboard and Principles of Digital Video
   Spring 2007: 40 credit students registered
   Summer 2007: 27 credit students registered/2 non-credit students registered

This grant provided funding for a Certificate of Competence in High-Definition Video Production. The certificate is divided into three modules, forty-five hours each. The modules included pre-production, production, and post-production.

This project addresses the evolution of Digital Video High Definition format and the impact this format has on new and incumbent workers. The grant established a certificate program to provide training in the modules to prepare for the migration to high definition format.
IV. PCATT COMMUNITY COLLEGE GRANTS
   D. Maui Community College

Funding for Maui was exceptionally large in 2006-2007. In
2005-2006, Maui CC OCET was awarded approximately
$32,000 for a non-credit registration system. To avoid fund lapse, the 2005-2006 award was reconstituted and a new
award was granted in 2006-2007.

Workforce Impact: Investment for Fall 2007

This project provided Maui OCET with the equipment necessary to offer training in a Windows Server and Unix Server course to both non-credit and credit programs. The course would be incorporated into the certification for Administrative Assistant in Business Technology and was designed to meet the requirements for Computer Operators.

In addition to the server course, the Maui OCET was provided funding to develop courses in Video Web Streaming, PHP, MySQL, and MS Outlook.

These courses were designed to meet the needs of entry-level and mid-level supervisors. According to the Maui OCET funding request, Maui County estimated approximately 531 jobs are available each year at this level.
IV. PCATT COMMUNITY COLLEGE GRANTS
E. Windward Community College

Funding: $33,577

Workforce Impact:
- Tech Talk 2007: 400 participants
- Podcasting Training: 17 WCC faculty
- Mobile Advanced Tech Training Lab (to be served): 50 students in 2008

Funding for Windward Community College OCET was provided to organize and host the first Technology Exhibitors Conference, Tech Talk 2007. The target audience for this event was military, general workforce, high school and college students, service organizations, and the windward community at large. The event showcased all UHCCs and vendors with advanced technology products and/or services.

Funding was also provided for faculty and staff training on Web content management, to establish a mobile advanced technology training lab that would provide training for Employment Training Center students in the Introduction to Culinary Arts program and the Introduction to Facilities Maintenance/Construction Program. The mobile lab will also support non-credit students in Web development, desktop publishing, digital graphics, computer security, and video editing among other courses.
IV. PCATT COMMUNITY COLLEGE GRANTS

F. Honolulu Community College

Funding: $20,958

Workforce Impact:

- Credit students utilizing lab: 33 students in 11 credit courses Spring 2007
- Non-credit: 15 clients served

This project provided 23” Apple Cinema HD Monitors to upgrade monitors for the Communication Arts Program. In addition to the students served, the project resulted in development of non-credit courses in Color Management with Adobe’s InDesign and Transitioning to InDesign from QuarkXPress. Improvements have upgraded the Mac lab to a level where continuing education courses for business and industry can now be scheduled there.

Return on investment from this project can also be measured in terms of consultation services on PCATT ads, tabloids, color correction, and art work for various projects through the Communication Arts Program.
IV. PCATT COMMUNITY COLLEGE GRANTS
   G. Kapi‘olani Community College

Funding: $12,526

Workforce Impact:
   1,066 individuals participated in activities supported by PCATT
   600 attendees – New Arts Lecture Series
   130 participants – FOTO Group Summer Workshops
   124 students enrolled in 12 credit courses
   102 non-credit students enrolled in 10 non-credit courses
   75 student/faculty/guests participated in 2007 Demo Reel and Design Portfolio Presentation
   35 public high school students participated in the Department of Education’s Arts and Communication Digital Media Competition

These projects support the New Media Arts Program. Purchases included digital studio lighting, digital video/audio equipment, royalty free music, and high resolution LCD TVs, to provide a comprehensive production and post-production facility for credit and non-credit courses.

The PCATT grant supported nine lectures in the New Arts Lecture Series, created high quality screen capture tutorials and training videos, the 3rd Annual Media Arts Demo Reel Development and Design Portfolio Presentation, six New Media Arts and Business Education Summer Workshops, and new credit and non-credit courses for Fall 2007.
V. OUTCOMES
A. PCATT 2006-2007 Goals

Goal 1: Regional workforce development needs
PCATT will continue to address regional workforce development needs at the county level throughout the state of Hawaii. 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.

Outcome:
To address regional workforce development needs at the county level throughout the state of Hawaii, PCATT in 2006 and 2007, has made changes to the current PCATT Request for Proposal (RFP). Beginning with the 2007-2008 PCATT RFP, applicants must also identify how their response to the PCATT RFP addresses regional economic development address in their respective county’s Comprehensive Economic Development Plans (CEDS).

Goal 2: 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 the 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 on student outcomes vs. the opportunity cost of the program.

Outcome:
As evidenced by this report, grant recipients of the 2006-2007 system grants have provided numbers of participants served through their respective projects. Although this is a marked improvement, the PCATT RFP continues to suffer from issues inherent in short term planning. As a result, 2007-2008 is scheduled to be the final year of the PCATT RFP.

The RFP process will be replaced by a longer-term workforce development plan that identifies specific workforce needs based on the county CEDS reports to ensure that the PCATT investment in the workforce is tied into the county’s regional economic development plan. This longer term workforce development plan will be introduced on a trial basis starting with the neighbor island campuses in the 2008-2009 fiscal year.
Goal 3: Continue to Expand Certification Preparation Training
Implement new certification programs/courses as research and customer needs identify them.

Outcome:
As confirmed by this report, PCATT offered forty new course offerings during the 2006-2007 year. Five courses lead to industry certifications with Cisco, CompTIA, and the World Organization of Webmasters. These courses ensure that PCATT remains at the forefront of technology training with the most current versions of certifications requested by employers.

Goal 4: 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 objectives. First, the printer enhances Autodesk and CAD courses and offers the opportunity to create new content and applications training for professionals in 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 Community 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.

Outcome:
Michael Jennings, Professor and PCATT Autodesk Manager, attended training at Saddleback Community College in Mission Viejo, CA held by Materialize on the Magics applications. This training allows PCATT to maintain design integrity for 3D models while ensuring the structural integrity of the 3D models produced. The application allows PCATT to control and manipulate .stl files to ensure the highest model quality.

Goal 5: Military – position PCATT as a preferred training option
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.

Outcome:
In 2006-2007, PCATT sustained its level of promotion to the military organizations on Oahu. Though activity in organizations such as AFCEA and developing initiatives that directly impact the military (IPv6 and DOD 8570.1 security and information assurance), PCATT will continue to position itself to expand services to the armed forces.
Goal 6: Expand industry and community outreach and support
Continue outreach and support to user groups including Hawaii Oracle Users Group, Hawaii Open Source, and IBM WebSphere Users Group. Expand community outreach through professional organizations.

Outcome:
PCATT continues to provide support for the IT and Advanced Technology user group community. In 2006-2007, PCATT provided facilitation for eight corporations, three industry associations, and five non-profit organizations.

Goal 7: Host the 2007 PCATT IT Summit
Although a successful event, PCATT will remain vigilant at expanding and working to improve the 2007 IT Summit.

Outcome:
In 2006-2007, PCATT far exceed the goal of continuing to improve the IT Summit. This year, PCATT in partnership with Apple offered the inaugural Apple Summer Institute which functioned as a pre-Summit training opportunity. This event was held on May 21 -23 and offered educators, administrators, and Tech Coordinators from K-20 five tracks of featured Apple technology and the opportunity to learn about the latest in digital trends.

Goal 8: Development network
PCATT will be investing in a development network that runs parallel to the Honolulu Community College Information Technology Center (ITC) infrastructure. The planned network will run IP version 6. Planned services for the network include an 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.

Outcome:
PCATT has created the IPv6 development network. As mentioned earlier in this report, the first of three phases was completed in February 2007. Phase 2 of this project will be completed in October 2007 and phase 3 is scheduled for completion in December 2007.
V. OUTCOMES

B. PCATT 2007-2008 Goals

Goal 1: Continue to increase accountability for PCATT RFP and system grants
By moving to longer term funding solutions for training and investment in advanced technology applications, funds currently used for PCATT’s System Grants will articulate with county Comprehensive Economic Development Plans, which will continue to support regional economic development and ensure that funds support identified and strategic economic development initiatives.

Goal 2: Continue to expand and ensure certification courses remain current, offering the latest version of IT certification and academy programs
Continue to implement new certification programs/courses as research and customers needs identify them. Ensure that PCATT curriculum remains current for employer needs.

Goal 3: Continue marketing to the military by specifically targeting military training initiatives
Remain active in AFCEA and continue to position PCATT as the chosen training organization for all branches of the Military in Hawai‘i.

Goal 4: Complete the IPv6 project
Complete phases 2 and 3 of the IPv6 project by the end of June 2008. Begin developing curriculum for IPv6 training that goes beyond Boot Camp training based on the experience gained through this development project.

Goal 5: Increase capability and proficiency in use and application of 3D virtual reality technology
Develop expertise in content development utilizing the EON Reality Professional Application. This will provide technical capabilities that allow EON to begin to outsource projects to PCATT.

Goal 6: Continue to expand capability and proficiency in rapid prototyping
Expand the capabilities of 3D printing to include 3D scanning and assess the viability for printing in other media.

Goal 7: Expand on new technologies for PCATT
Continue to look for new technologies through PCATT’s national network of advanced technology centers. Technologies of interest are those which enhance Hawaii’s workforce initiatives and ensure a technically capable, high skilled workforce.