

# **Annual Report 2005**

## **Benguet State University**



*Cover photo highlights the Biodiversity Farm  
At Bektey, La Trinidad, Benguet, a focal project of the university in 2005  
Photo taken by: Ms. Janice M. Laruan*



Republic of the Philippines  
BENGUET STATE UNIVERSITY  
La Trinidad, Benguet

March 31, 2006

HER EXCELLENCY GLORIA MACAPAGAL-ARROYO  
President, Republic of the Philippines  
Malacañang Palace, Manila

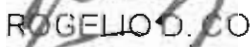
Thru : HON. CARLITO S. PUNO  
Chair, Commission on Higher Education  
and Chair, BSU Board of Regents

Madam President:

I respectfully submit the 2005 Annual Report of Benguet State University. The report summarizes the university's accomplishments in the four functions: Instruction, Research, Extension and Production. Accomplishments in governance and general administration are discussed in the first chapter.

The year 2005 was productive for the University and the country as a whole. Thank you for your support.

Very truly yours,,

  
ROGELIO D. COLTING  
President



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## EXECUTIVE SUMMARY

Benguet State University in 2005 steered steadily towards the vision of being a premier state university in Southeast Asia. Excellence in the four-fold functions of instruction, research, extension and production were exhibited in a number of ways. In instruction, the university earned national acclaim with three faculty members reaping the Most Outstanding Teacher Awards in Physics and in two areas of Veterinary Science. Eight faculty members reaped local awards in specific disciplines. For the year, 1,456 students graduated from various degree programs in the main campus and the external campuses. Three graduates landed as board topnotchers in the Veterinary and Agriculture Licensure Examinations. Overall, the university continued to excel in the board examinations for Teacher Education, Nursing, Veterinary Medicine and Library Science. Accreditation with the AACCUP remained a priority with self-survey preparations done for most of the programs. Excellence for the year was also exhibited as students bagged awards as finalists in the regional and national Ten Outstanding Students of the Philippines. Two student organizations were proclaimed as outstanding country-wide.

In research and extension, the university was honored with one research specialist receiving one of the country's most prestigious recognition for civil service namely, the 2005 Lingkod ng Bayan Award. Excellence in research and extension was exhibited by BSU researchers winning places in various modes of competition locally and nationally for specific research outputs. The year was evidence of the university's passion for research and extension. This resulted to the generation of a number of technologies some of which were shared to farmer clients through timely extension. Greater private sector partnerships were explored for technology commercialization.

In 2005, the university continued to complement instruction, research and extension with appropriate production endeavors. This function was mainstreamed with the appointment of a new Director and support staff, and the review and stricter implementation of policies and procedures. From such efforts, university budget was augmented with more than 24 million pesos.

The smooth implementation of the fourfold function was made possible by effective governance. The University President with the able support of the Board of Regents executed policy and management decisions in critical areas. For instance, prioritization on human resource development resulted to four doctorate and 12 master's degree holders, including numerous faculty members and staff pursuing knowledge and skills enhancements in relevant training, conferences, seminars, study visits and workshops in and outside of the country. Strategic decisions for infrastructure development in crucial areas such as ICT, library, other instruction and research facilities coupled the measures on streamlining administrative processes.

# Administration



The Board of Regents



Turnover of the completed  
Gladiola Center



Korean Partners



**Welcome** GUESTS & PARTICIPANTS  
TO THE  
**TRAINING-FORUM ON COMPLETED STAFF WORK IN SUCs**  
ADMN. CONFERENCE ROOM, LA TRINIDAD, BENGUET  
AUGUST 2005  
SPONSOR: CHED, THROUGH THE OFFICE OF  
MR. SATURNINO M. JACINTO JR.

## Internal Governance

In 2005, the chairpersonship of the University Board of Regents changed three times as follows: Fr. Rolando de la Rosa from October 2004 to March 2005, Commissioner Saturnino M. Ocampo, Jr. from April 2005 to October 2005, and Chair Carlito S. Puno from November 2005 to the present.

The BOR made the following significant resolutions for the year: commendation of the top twenty students in the licensure examinations in Agriculture and Veterinary Medicine; commendation for the Colleges concerned and tasking the University President to study the possibility of giving incentives in cash or in kind to those who will land in the top 10 of recognized licensure examinations; authorization for the creation of three Instructor I positions; and the approval of the creation and implementation of the Committee on Decorum and Investigation (CODI) in accordance with RA 7877 on the Anti-sexual Harassment Act of 1995.

Twenty-four memorandum of agreements entered into by BSU with other agencies/organization was approved. Among these are

the Memorandum of Agreements with the NCC and PREGINET on Internet connections; DOST, DA-BAR, DOE on

research and development projects; DepED, DOH and other SUCs on collaborative projects; the IYAMAN Association Inc. on student scholarship; the Coop Bank of Benguet on Organic Farming Study Now Pay Later Scheme; and, Land Bank of the Philippines on ATM Payroll System for implementation in January 2006.

The BOR also approved the preparation of working papers for partnership with international organizations such as:

- i. Mainland Montane South East Asia on network on indigenous knowledge and people.
- ii. Partnership with Hartnell College, Salinas, California USA on agriculture and other agri-related projects.
- iii. Distance Education Programme with Vinayaka Mission's Research Foundation, Tamilnadu, India on the Information Technology, Nutrition and Home Technology, and Nursing.
- iv. MATS School of Business & Information Technology, Bangalore, India in research undertakings in the field of Information Technology and Agribusiness.



**BSU Board of Regents, 2<sup>nd</sup> Quarter 2005** L-R. Mr. Mark Gay-as, Student Regent; Dr. Edna A. Chua, Faculty Regent; Atty. Rhaegee B. Tamana, representing Cong. Cynthia A. Villar; Mr. Juan B. Ngalob, NEDA-CAR Director; Mr. Gerry Lab-oyan, private sector representative; Dr. Ben D. Ladilad, DOST-CAR Director; Mr. Gabino L. Garoy, private sector representative; Atty. Cipriano B. Santiago, OIC, DA-CAR and Atty. Philip M. Lina, representing the Office of Sen. Juan B. Flavier. Seated are Dr. Peter M. Cosalan, Alumni regent; Hon. Saturnino M. Ocampo, Jr., CHED Commissioner and BSU Board of Regents Chair and Dr. Rogelio D. Colting, BSU President and BSU Board of Regents Vice Chair.



Personnel Profile

Out of the 558 personnel of the University, there are 272 permanent and 24 contractual teaching personnel, and 257 permanent and 5 contractual non-teaching staff.

The distribution of faculty by rank shows that 54% have assistant, associate and professorial levels (Table 1). Specifically, 43 faculty members and 1 faculty member have professor and college professor ranks, respectively.

On the educational profile of faculty, 41% are Master's degree holders and 28% are Doctorate degree holders. The rest of the faculty members are pursuing advanced studies.

The distribution of the faculty to the different colleges/offices of the University shows that the College of Arts and Sciences had the most number of faculty, 79; followed by the College of Teacher Education, 75; and College of Agriculture, 66 (Table 2). There are 17 academic holders who are doing full time research and extension for the University and 5 academic holders who are assigned at the Administration including the SUC Vice President and President.

Distribution of Personnel by Rank

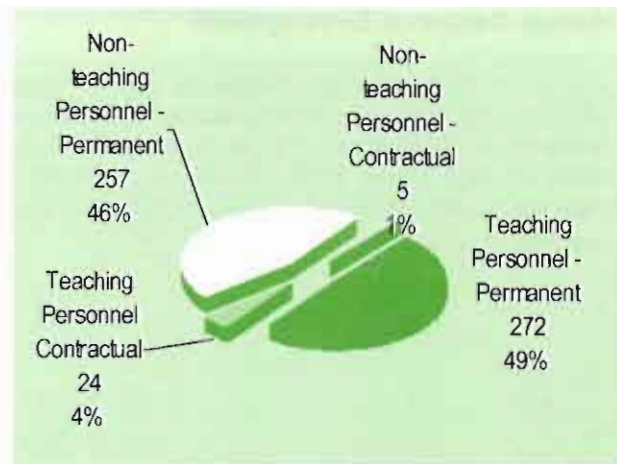


Table 1. Distribution of faculty by rank and educational attainment

Rank	Educational Attainment				TOTAL No. / %
	BS	MD	MS/MA	PhD/EdD	
Instructors	74	1	63	6	46
Asst. Prof.	22	0	36	12	70 22
Assoc. Prof.	1	0	24	33	58 18
Professor	0	0	6	37	43 14
College Prof	0	0	0	1	1
Total	97	1	129	89	316 100
%	31	0	41	28	100

Table 2. Distribution of Faculty by Rank and College/Unit

College/Office	Instructor	Asst. Professor	Assoc. Professor	Professor	College Professor	Total
College of Agriculture	18	8	22	18		66
College of Arts and Sciences	38	15	12	13	1	79
College of Eng'g & Applied Tech	6	4	1			11
College of Forestry	8	4	2			14
College of Home Economics and Tech	6	4	1	3		14
College of Nursing	7	4	1			12
College of Teacher Education	44	13	13	5		75
College of Veterinary Medicine	3	7		2		12
Institute of Public Administration			2			2
Institute of Physical Educ. & Sports	7		2			9
Administration Office		3		2		5
Research and Extension	7	8	2			17
TOTAL	144	70	58	43	1	316

## Human Resource Development

For Benguet State University, human resource development is always a priority. For 2005, 16 faculty members and staff completed graduate studies (Table 3). Six were granted PhD scholarships, ten were granted scholarship for Master's, one for diploma training, and one for a post doctorate fellowship (Table 4). Fifteen faculty members and staff availed of international training in countries like Belgium, Italy, Vietnam, India, Malaysia, China, Thailand and South Africa. Specifically four of these were active participation through paper presentations.

Table 3. List of Faculty and Staff who successfully completed their graduate studies in 2005

	NAME	FACULTY RANK	COLLEGE	DEGREE	FIELD OF SPECIALIZATION	UNIVERSITY
1	ALFONSO, Gerry M.	Instructor I	CF	PhD	Rural Development	BSU
2	PARCASIO, Imelda G.	Instructor I	CTE	PhD	Educ'l Mgmt	BSU
3	SAGALLA, Lily D.	Asso Prof III	CAS	EdD	Educ'l Mgmt	BSU
4	WACANGAN, Vicente T.	Instructor I	CF	PhD	Rural Dev't	BSU
5	AWAL, Isidro B.	Admin Aide VI	R & E	MS	Horticulture	BSU
6	BANSIONG, Apler J.	Instructor I	CTE	MS	Biology	BSU
7	BILANGO, Sherilyn G.	Instructor I	CHET	MS	Rural Dev't	BSU
8	CABUTAJE, Leticia C.	Instructor I	CTE	MA	Home Econ	BSU
9	CALUGAN, Mildred I.	Instructor I	CAS	MA	Social Studies	BSU
10	CAPILI, Arnulfo C	Instructor I	CTE	MAED	Educ'l Adm & Sup	BSU
11	CRUZ, Beverly P.	Instructor I	CAS	MA	Social Studies	BSU
12	GURON, Maricel A.	Instructor I	CAS	MBS		SLU
13	MARQUEZ, Eryn Honeylette C.	Instructor I	CTE	MAED	Guidance & Psychology	BSU
14	NUÑEZ, Nancy M.	Admin Aide I	R & E	MS	Plant Pathology	BSU
15	SAGANDOY, Tecah C.	Instructor I	CAS	MA	Social Studies	BSU
16	TAGARINO, Leopoldo N.	AssoProf II	CA	MRSM	Resource System	BSU

Table 4. List of personnel on full time scholarship

	NAME	College/ Office	Degree	Field of Specialization	College/ University	Sponsor Of Scholarship	Period
1	ABENOJA, Almario	ICT	Master	Information Systems	UP – Open Univ., Los Banos	PIUC-VLIR	2003-2006
2	ANONGOS, Stanley	CA	Ph.D.	History	UP, Diliman	PIUC-VLIR	2003-2007
3	CALIAS, Florida	CVM	MAED	Education major in Library Science	St Louis College, San Fernando City	PIUC-VLIR	2004-2006
4	CAPUYAN, Gretchen Gaye F.	College of Eng'g & Applied Technology	MS	Public Administration	BSU	BSU	Sept. 1-30, 2005
5	CUANGEY, Luke E.	College of Agriculture	MS	Agricultural Economics	BSU	BSU	June 2005 – Oct. 2005
6	DONA, Victoria S.	Admin	Master	Public Administration	BSU	BSU	Nov., 2005 – May, 2006
7	GARCIA, Paul, Jr.	ICT	Master	Computer Science	Univ of the Cordilleras, Baguio City	PIUC-VLIR	2004-2007
8	KUDAN, Silvestre I.	College of Agriculture	Ph.D.	Horticulture	BSU	BSU	June 2005 – May 2006
9	PARAO, Marissa R.	College of Forestry	Ph.D.	Forestry	UPLB		June 2005 – May 2008
10	PEDROCHE, Nordalyn	PIUC Project	Ph.D.	Nematology	Catholic Univ of Leuven, Belgium	PIUC-VLIR	2004-2007
11	POLILEN, Ricky P.	Admin	MS	Biology	BSU	BSU	June 2005 – May 2006
12	QUINDARA, Hilda L.	College of Agriculture	Ph.D.	Horti, Major in Postharvest	UPLB	PIUC-VLIR Project 6	June 2005 – May 2008
13	RICARDO, Marjorie	Main Library	Master	Library Information Technology	St Louis Univ, Baguio City	PIUC-VLIR	2004-2007
14	TAGARINO, Leopoldo N.	College of Agriculture	Ph.D.	Agricultural Economics	Ghent University, Belgium	PIUC-VLIR (Sandwich prog)	Oct. 2005 – Sept. 2007
15	TANO, Gabriel	College of Arts & Science	MS	English	University of Northern Phil.		June 2005 – Oct. 2006
16	WAKAT, Jimmy A.	College of Agriculture	MS	Envit'l. Nat. Resources Mgt.	UP, Open Univ		June 2005 – May 2007
17	DEL-AMEN, Jao-jao S.	College of Home Economics & Tech	Non-Degree	Complimentary Studies in Food Science & Nutrition	Ghent University, Belgium	VLIR	Oct. 2005 – Nov. 2006
18	MULA, Rosana P.	College of Agriculture	Non-Degree	Post Doctorate Fellowship (Research Fellow)	India	ICRISAT	Oct. 2005 – Sept. 2007

Table 5a. Faculty and Staff who attended the recycling scholarship in Belgium

Name	Field	University/Place	Sponsor	Duration
Dugat, Julie Ann	Network Installation and Management, and Multimedia Techniques	Antwerp and Leuven, Belgium	PIUC-VLIR Project 3	Oct. 5-21, 2005; Oct 23 - Nov. 04, 2005
Tagarino, Leopoldo N.	Supply Chain Management (pre-doctoral)	Ghent University	PIUC-VLIR Project 5	Nov 4 – De 4, 2005
Laurean, Carlito	Advances in Nutrient Management		PIUC-VLIR Project 6	Fe 14 – March 14, 2005
Nagpala, Asuncion	DNA Extraction of Fungi	Ghent University		

Table 5b. International trainings attended by faculty and staff

Title	Duration	Venue	Sponsor	Person(s) Involved
Intensive International Training Program on Research Policy Development and Research Fund Management	June 13 – 17, 2005	KUL, Belgium	PIUC-VLIR Project 2	Darlyn Tagarino Sonwright Maddul
20 <sup>th</sup> EROPA General Assembly. Paper entitled "Attainment of the Millennium Goals in the Cordillera: The Benguet Experience"	October 9-14, 2005	Hano, Vietnam	PIUC-VLIR Project 2	Gloria Lee
Third World Organization for Women in Science (TWOWS) 3 <sup>rd</sup> General Assembly & International Conference. Paper entitled "Indigenous Floral Conservation Practices in Bokod, Kabayan, Benguet"	November 21-25, 2005	Bangalore, India	PIUC-VLIR Project 2	Grace Bengwayan
3 <sup>rd</sup> Asia TEFL International Conference Paper entitled: "Reflective Teaching & Teacher Development"	November 3-8, 2005	Beijing, China	PIUC-VLIR Project 2	Gilda Jacalan
Training on Audio-Visual Learning Aids	March 6 – 16, 2005	Belgium	PIUC-VLIR Project 3	Sheryl Fernando
Training on GIS and Remote Sensing for Physical Land Evaluation	June 19 – July 3, 2005	Belgium	PIUC-VLIR Project 3	Precila Salcedo
ICT Study Visit	Nov 1-7, 2005	Cape Town South Africa	PIUC-VLIR Project 3	Almario Abenoja
Web-Enabling Technologies	November 7-12, 2005	Trieste, Italy	PIUC-VLIR Project 3	Julie Ann Dugat
International Conference on Library Cultural Heritage	October 19, 2005	Ateneo de Manila University	PIUC-VLIR Project 4	Ma. Teresa Marquez
Online Information and Education Conference	November 16-19, 2005	Thailand	PIUC-VLIR Project 4	Ma. Teresa Marquez
International Conference on "Achieving Innovation and Best Practices in Urban Management"	7-9 March 2005	Ipoh, Perak Malaysia	PIUC-VLIR Project 5	Ma. Kicndy T. Dagupen, Leopoldo N. Tagarino
Pacific Rim Objective Measurement Symposium 2005. Paper entitled "Differences in Teachers and Student Views of Desirable Environmental Education. Topics in School Science"	June 20-24, 2005	Kuala Lumpur, Malaysia	PIUC-VLIR Project 5	Joel Lubrica
International Conference on Agriculture and Rural Development	10-11 Nov. 2005	Mandarin Hotel, Manila	PIUC-VLIR Project 5	Ma. Klondy T. Dagupen Darlyn D. Tagarino

In 2005, 18 faculty members and staff retired from government service (Table 6),

Table 6. List of retirees from BSU

	NAME	POSITION	COLLEGE/OFFICE	DATE OF EFFECTIVITY
1	LABUTAN, Cornelius D.	Administrative Aide III	CF	02/06/05
2	DOQUEY, Rosita B.	Administrative Aide III	GS	08/28/05
3	DEMIS, Irene C.	Administrative Aide III	CAS	11/18/05
4	MENZI, Balde L.	Administrative Aide V	General Services	03/21/05
5	VERSOZA, Francisco A.	Administrative Aide VI	Food Processing	01/01/05
6	CAMPOS, Romualdo N.	Administrative Officer I	Supply	04/01/05
7	SAGUBO, Brigit C.	Administrative Officer V	Administrative	02/03/05
8	GOLOCAN, Adelaide G.	Assistant Professor IV	CTE	11/08/05
9	CELINO, Sonia M.	Associate Professor V	CTE	01/01/05
10	CONSOLACION, Leticia C.	Associate Professor V	CA	01/01/05
11	BADOL, Estela O.	Associate Professor V	CA	11/01/05
12	RAMOS, Estrella A.	Chief Administrative Officer	Administrative	04/14/05
13	BONGLAYAN, Rosalia B.	Farm Worker II	R & E	12/19/05
14	TABANDA, Maria Elena O.	Instructor I	CHET	06/02/05
15	COQUIA, Primitiva S.	Professor II [CT]	CTE	11/08/05
16	GUALDO, Rosendo S.	Professor III	CAS	06/13/05
17	BAYANGAN, Evelyn M.	Professor VI	CAS	04/01/05
18	CLARAVALL, Nora J.	Professor VI	ULS/CTE	06/16/05

## Infrastructure Projects Completed

- ❖ Gladiola Center building turned-over by contractor and blessing/inauguration was done on June 17, 2005.
- ❖ Repair and refurbishing of perimeter fencing (1 km.) in front of the University campus from McDonald up to the Student's Center.
- ❖ Balili experimental/production farm road (65 meters)
- ❖ Balili Faculty and Staff housing road (85 meters)
- ❖ IP Centrix of Digital installed at the Gladiola Center. IP Centrix is a PABX phone system provided by Digital, the system is remotely controlled using the website of Digital.
- ❖ Extraction of waste for 39 university septic tanks.

## Information and Communication Technology (ICT)

- ❖ Conducted series of training to college core representatives on CLAROLINE as an E-learning tool.
- ❖ Conducted series of training to various offices on the use of a centralized file system.
- ❖ Conducted a survey on the status of software licenses and on a comparative cost study on printing alternatives.
- ❖ Installed licensed software packages.
- ❖ Separated the BSU network into sub-networks.
- ❖ Updated and uploaded a new BSU website.
- ❖ Maintained the WEBOPAC and the CLAROLINE.
- ❖ Renegotiating with PREGINET on terms and conditions of MOA to reduce monthly dues.
- ❖ Prepared the initial prototype design of a payroll system.
- ❖ Prepared proposal for Internet operations at the Gladiola Center.
- ❖ Coordinated the use of the ICT Development Fund for first year students.

## Planning and Development

- ❖ Strategic plans were revisited in February 18-20, 2005
- ❖ Started the formulation of an Integrated Development Plan for the Swamp Area.
- ❖ Capability benchmarking activities were done and a management action plan was packaged.
- ❖ Monitoring and Evaluation Team was organized to monitor the implementation of University plans. Monitoring and evaluation tool was formulated.
- ❖ Continued the revision of the BSU Code through workshops (still on-going)
- ❖ The medium term development plans and operational plans for 2005 were packaged in hard copies and CDs and disseminated to the different units of the University
- ❖ Participated in the monitoring and evaluation of infrastructure projects.
- ❖ Participated in the evaluation of CDA-JICA project in Buguias, Kapangan and La Trinidad.

## International Relations

- ❖ Issued two IRO newsletters with updates on international visitors to the university, foreign visits made by BSU constituents, and opportunities for project grants and scholarships.
- ❖ Planned strategies for preparation of proposals for submission to foreign agencies for funding.
- ❖ Conducted visits to the embassies of Finland, Australia, USA and Japan in Manila on March 15-16, 2005
- ❖ The university received visitors from the Democratic People's Republic of Korea thru the DPRK Friendship Society on April 19, 2005 and from the Catholic University Leuven Campus Kortrijk on April 8, 2005.
- ❖ Networking with the South China Agricultural University made in November 23 and 29, 2005.

## University Budget

For the year under review, the University had a total budget of P193, 333,499.00 from the national government, and an additional of P58, 664,054.10 (24%) was generated by the University from student fees and income generating projects. The breakdown of budget appropriation by campus is shown in Table 7 and the sources of income for the main campus are shown in Table 8.

Table 7 Breakdown of appropriation by Campus FY 2005

Campus	Amount PhP
BSU Main Campus (La Trinidad)	166,022,659.00
BSU Buguias Campus	15,316,480.00
BSU Bokod Campus	11,994,360.00
<b>TOTAL</b>	<b>193,333,499.00</b>

Table 8. Sources of income

Fund	Classification	Income	Expenses	Net
General Fund 101	General Appropriation (GAA)	193,333,499.00	192,155,032.34	1,178,466.66
Revolving Fund-161	Income from Agri-based Projects	10,163,423.70	8,182,342.96	1,981,080.74
Revolving Fund-163	Income from Auxiliary Projects	4,690,270.25	2,636,607.99	2,053,662.26
Revolving Fund-164	Income from Rentals	37,961,526.00	22,167,048.10	15,794,477.90
<b>Total</b>		<b>246,148,718.95</b>	<b>225,141,031.39</b>	<b>21,007,687.56</b>

## Special Projects

### 1. Philippines Institutional University Co-Operation (PIUC)

The PIUC, a foreign-assisted project from VLIR of Belgium, for 2005 continued to support quality instruction at BSU by purchasing library learning resources amounting to P1.76 million making the BSU library the first SUC to be automated in the Cordilleras. Support for the expansion of the ICT and research infrastructure of the university amounted to P1.95 million (Table 9). This enabled the university to maintain the unique status of having extensive ICT interconnectivity among SUCs, as well as having state-of-the-art greenhouses for research and instruction. Vital equipment for offices and laboratories worth P 5.2 million supported administrative systems and instruction/research experiments. Alongside these investments were substantial allocations for human resource development as follows: seven (7) faculty members and staff are currently undergoing PhD scholarships here and in Belgium; fourteen (14) faculty members and staff had international exposures through training or paper presentations in various countries and through recycling opportunities in Belgium (Table 10); numerous BSU officials, faculty

members, staff and students availed of learning and skills enhancement in a number of training, seminars and workshops that they were sponsored to attend or were conducted by the PIUC. Networking with the South China Agricultural University and other foreign entities were supported. Improvement of university governance through support of the BSU planning process, the monitoring & evaluation process, and the finalization of the BSU Code were seen. For the year, the PIUC facilitated critical benchmarking with other top state universities in the country.

Strengthening of research and extension was manifested by continued support to nine (9) researches of the Institute of Social Research and Development and eight (8) researches of the Semi-temperate Vegetable Research and Development Center. The relationship with Saint Louis University (SLU) was further strengthened by many joint activities that were conducted for the year. An approximate amount of P18.6 million was used by the PIUC for BSU development in 2005.

Table 10. Local Trainings conducted by the project

Title	Duration	Venue	Person(s) Involved
Assessment and Planning Workshop for Joint Activities and Collaboration Possibilities	February 8 -10, 2005	PTA Beach Resort, San Fabian, Pangasinan	15 from BSU and 15 from SLU/ PIUC Project leaders and other officials
PIUC Year-end Evaluation and Planning	April 17-19, 2005	Leisure Coast, Dagupan, Pangasinan	12 Project leaders and other stakeholders
Skills Enhancement for Research and Community Extension Services	July 31, 2005	Jose Rizal AVR	64 BSU 66 SLU
Joint SLU-BSU Training on Strategic and Performance Management	September 6-8, 2005/BSU September 12 -14, 2005/SLU	BSU and PIUC	20 officials from BSU 20 officials from SLU
Skills Enhancement for Research and Communication Extension Services	July 31, 2005	SLU	#6 (SLU) 64 (BSU)
VQIP & WIRELESS	June 21-24, 2005	BSU ICT Hall	BSIT graduating students, & BSECE o SLU



Title	Duration	Venue	Person(s) Involved
Microsoft Excel and ACCESS Training	October 17-21, 2005	SLU ICTR Lab BSU ICT Hall	27 BSU faculty for MS ACCESS and 15 BSU faculty for MS Excel
E-health: Through Video Conferencing	December 5-9, 2005	BSU ICT Hall	10 faculty from College of Nursing at BSU and SLU and BSU Nursing students
Local Training on GIS and RS	September 2005	SLU	10 from BSU and SLU
Project 2 BSU Master Planning	February 18-20, 2005	Puerto De San Juan, La Union	40 members of the BSU Administrative Council and some BOR members
Seminar-Workshop on the Use of Philippine bidding documents	23-25 February 2005	BSU Anthurium Hall	BSU Faculty and Staff
Seminar-Workshop on Administrative Processes, Issuances, and Correspondence Management	3-4 March 2005	BSU Anthurium Hall	BSU Faculty and Staff
BSU Capability Benchmarking	March 8-11, 2005	UPLB and LSU	24 members of the BSU Administrative Council
BSU Capability Benchmarking	April 20-21, 2005	CLSU & BATSU	30 members of the BSU Administrative Council
BSU Benchmarking Integration Workshop	April 22 - 23, 2005	Subic, Olongapo	30 members of the BSU Administrative Council
Workshops on the Revision of the BSU Code	August 8 -9, 2005/ BSU September 19 - 21, 2005	BSU	50 members of the BSU Administrative Council
Project 3			
Mambo training	July 27-29, 2005	NCC,BSU ICT Hall	SUCs, Facilitator: Julie Ann Dugat, Paul Garcia Jr.
Project 4			
In-house Training on Follet Circulation	Last week of May	BSU/SLU	All BSU Librarians

Table 9. Infrastructure completed

Project	Infrastructure	Cost
3	LAN backbone expansion	588,154.00
	Installation of the BSU Personnel Laboratory	500.00
	Installation of the New Wireless LAN at the NOC	5,000.00
	Installation of LAN Connection at the OSA Center	3,000.00
	Repair of the LAN Connection at the Research Complex	500.00
	Physical Network Separation (July 2005) Administration; Net 192.168.10.x; Library Net 192.168.15.x Academic and Research Net 192.168.0.x	500.00
4	Installation of LAN Connection at the CN Library	4,000.00
	Installation of LAN Connection at the CVM Library	4,000.00
6	Tropical Greenhouse	1,341,955.00
	<b>Total</b>	<b>1,947,109.00</b>

Table 1f. Faculty exchange to SLU

Name	Period/Duration	Course Taught	Program
Prof. Jose G. Balaoing	Summer 2005	Soil Pedology	MS Environmental Science
Dr. Romeo A. Gomez	First Semester 2005	Environmental Management	MS Environmental Science
Dr. Carlito P. Laurean	Second Semester 2005	Biological Resources and Management	MS Environmental Science

**2. Projects with the Commission on ICT**

- ❖ Conducted training program on Microsoft Excel and Word for the Department of Education Benguet Division Teachers for 4 consecutive Saturdays (Oct. 15, 22, 29 and November 05, 2005)
- ❖ Conducted E-health towards better patient care management video conferencing seminar simultaneous broadcast through PREGINET in Benguet State University, Leyte State University, and Mindanao State University – Iligan Institute of Technology December 5-09, 2005. Participants are faculty of BSU, SLU College of Nursing and personnel of the Department of Health-CAR.
- ❖ The ICT Coordinator, Planning Officer and HRMO personnel attended the Strategic Training Needs Assessment Seminar Workshop

the CICT Conference Room. Output of which will be the three year training program for the e-Quality program for the State Colleges and University.

**3. International Language Center**

- ❖ Conducted the first batch of English Course to Koreans in partnership with Korea Yuhak on July 20, 2005 to August 18, 2005. The 2nd batch came in December 2005 with about 80 students.
- ❖ Coordinated the 2nd batch of English with Sangju National University on July 11, 2005 to August 16, 2005.



**New BSU Regents-** CHED Commissioner and BSU Board of Regents chair Dr. Saturnino M. Ocampo, Jr. (3<sup>rd</sup> from L) inducts into office DA-CAR Director Cesar Rodriguez. BSU SSG President Dejay Amor C. Dumapis and BSU Faculty Club President Dr. Carlos P. Luma-ang. Looking are (L-R) Dir. Juan B. Ngaiob; Dir. Ben D. Ladlad; Atty. Philip M. Lina; Atty. Rhaegee B. Tamana.

# *Instruction*



### Curriculum Development

Curriculum development remained a focus in 2005. In accordance with the CHED Memo No. 30, the DVM curriculum 2000 was revised for implementation to first year proper students by 1st semester SY 2006-2007 while the undergraduate teacher education curriculum have already started executing the changes. The following programs were subjected to review during the year: BS Agriculture and Agribusiness curricula in the undergraduate and for the graduate programs, the PhD Language Education, MS Biology, and MA Chemistry. New curricular programs were proposed and are under study namely: BS in Early Childhood Education, BS in Library and Information Science, BS Forestry majors in Forest and Environmental Management and Rural Forestry.

### Accreditation Program

The accreditation of academic programs by AAC-CUP is being continued. Self-survey accreditation was done for level II re-accreditation as of August in the following: Agriculture (BSA, BSABM, BS Dev.-Com.),

Teacher Education (BEE, BSE, BSAE) and Nursing. Self-survey accreditation will also be done in the other programs in 2006. Formal AAC-CUP Accreditation visits will be done after the self-survey of each academic program.

### Enrollment

Enrollment in the different colleges in 2005 is given in Table 12. The total enrollment varied from 8,679 during the first semester to 8,650 during the second semester for the main campus. Including the two integrated campuses and consortium campus, a total of 10,522 students were enrolled during the first semester and 10,430 during the second semester.

### Graduates

For the year 2005, the University had a total of 1,546 graduates in the various programs (Table 13). Out of this number, 1,393 graduated in the main campus; 75 graduated in Bokod Campus; 24 in Buguias Campus; and 54 graduated from the different consortium schools.



Table 12. Enrollment by degree program from summer 2005 to the 2<sup>nd</sup> semester, 2005-2006

Degree Program	Summer 2005	1 <sup>st</sup> Semester, 2005-2006	2 <sup>nd</sup> Semester, 2005-2006
PhD/EdD	37	75	79
MS/MA/MPA	357	378	438
Open University (Masters and Diploma)	28	77	69
College of Veterinary Medicine			
Doctor of Veterinary Medicine	118	434	431
College of Engineering and Applied Technology			
BS Agricultural Engineering	93	362	417
Certificate Auto-Mechanics	0	75	35
College of Agriculture			
BS Agriculture	216	1,202	1,053
BS Agribusiness Management	55	210	191
BS Development Communication	39	158	155
Diploma in Agroforestry	24	58	61
Special Class			3
College of Arts and Sciences			
BS Applied Statistics	22	123	154
BS Environmental Science	65	229	259
BS Information Technology	13	209	261
Special Class		67	9
College of Forestry			
BS Forestry	52	244	220
Forest Ranger Certificate	7	6	1
College of Home Economics and Technology			
BS Home Economics	58	380	350
BS Nutrition and Dietetics	47	162	169
BS Entrepreneurial Technology	44	120	127
College of Teacher Education			
B Elementary Education	160	839	851
B Secondary Education	148	1,125	1,219
BS Agricultural Education	41	120	108
Professional Education		73	59
Special Class			4
Secondary		554	554
Elementary		616	616
Pres-School		218	218
College of Nursing			
BS Nursing	199	474	446
Institute of Physical Education and Sports			
Diploma in Physical Education	7	7	5
Institute of Public Administration			
Diploma in Public Administration			
Certificate of Public Administration			
Cross Enrollee		62	68
<b>Total Main Campus</b>	<b>1,830</b>	<b>8,683</b>	<b>8,650</b>

Table 12. (Continued....)

Degree Program	Summer 2005	1 <sup>st</sup> Semester, 2005	2 <sup>nd</sup> Semester, 2005-2006
<b>BOKOD CAMPUS</b>			
BS Industrial Education		99	101
BS Industrial Technology		97	99
B Elementary Education		68	66
Two-year Trade Technology		51	42
Secondary		454	454
Sub-total		769	762
<b>BUGUIAS CAMPUS</b>			
B Elementary Education		81	87
B Secondary Education		100	60
BS Agricultural Education		27	20
BS Agricultural Technology			11
BS Industrial Education		36	22
Professional Education		6	1
Secondary		733	513
Sub-total		983	714
<b>CONSORTIUM CAMPUS</b>			
<b>GBDAIS</b>			
B Elementary Education		52	28
B Secondary Education		9	5
Sub-total		61	33
<b>GRAND TOTAL</b>		<b>10,446</b>	<b>10,159</b>

Table 13. Graduates in the various degree and non-degree programs for the year 2005

PROGRAM	2nd SEM 2004-2005	SUMMER 2005	1st SEM 2005-2006	TOTAL
<b>Main Campus</b>				
PhD/EdD	18	4	2	24
MS/MA/MPA	65	29	17	111
Doctor of Veterinary Medicine	7	1		8
BS Agricultural Engineering	22	5	3	30
B Elementary Education	214	1	9	224
B Secondary Education	223	3	18	244
BS Agriculture	170	6	18	194
BS Agribusiness	38	2	2	42
BS Agricultural Education	37		5	42
BS Applied Statistics	14			14
BS Development Communication	23			23
BS Entrepreneurial Technology	20	4		24
BS Environmental Science	24	2	9	35
BS Forestry	50		2	52
BS Home Economics	61		1	62
BS Information Technology	27			27
BS Nursing	103			103
BS Nutrition and Dietetics	24			24
Diploma in Physical Education	7		1	8
Diploma in Agroforestry	15	10		25
Certificate in Auto Mechanics	41			41
Forest Ranger Certificate	9	3	2	14
Associate in Entrepreneurial Technol- ogy	20		2	22
<b>Sub-total</b>				

Table 13 (continued...)

PROGRAM	2nd SEM 2004-2005	SUMMER 2005	1st SEM 2005-2006	TOTAL
<b>BOKOD CAMPUS</b>				
BS Industrial Education	46			46
BS Industrial Technology	29			29
<b>Sub-total</b>				
<b>BUGUIAS CAMPUS</b>				
B Elementary Education	5			5
B Secondary Education	19			19
<b>Sub-total</b>				
<b>Consortium – BCF and SLU</b>				
MS Mountain Engineering	3			3
<b>Consortium – MPSPC</b>				
PhD Rural Development	1			1
<b>Consortium School-GBDAIS</b>				
B Elementary Education	20		24	44
B Secondary Education	4		2	6
<b>Sub-total</b>				<b>54</b>
<b>Grand Total</b>	<b>1,359</b>	<b>70</b>	<b>117</b>	<b>1,546</b>

## Student Awards/Recognition

A number of students and student organizations received outstanding awards in various national competitions shown in the following list (Table 14).

Table 14. List of awarded students/organizations

NAME/ORGANIZATION	TITLE OF AWARD	SPONSOR/CATEGORY
PAN Beta Zeta BSU Chapter- College of Home Economics and Technology Ms. Bella Basalong	Most Outstanding PAN Student Chapter	PAN (National Level)
Ms. Evelyn Bay-an	Outstanding Nutrition Dietetics Student for SY 2004-2005	NDAP(national)
Dr. Allan N. Labotan	Outstanding Nutrition Dietetics Student for SY 2004-2005	NDAP (national)
Ms Marilyn Cabfilan	8 <sup>th</sup> Placer Veterinarian Licensure	PRC (national)
Mr. Pender Botiwey	17 <sup>th</sup> Placer Agriculturists Licensure Examination	PRC (national)
Mr. Filmore Awas-BS Dev Com Mr. Mark U Gay-as – BS Nursing Mr. Sam B. Galino – BSE	20 <sup>th</sup> Placer Agriculturists Licensure Examination	PRC (national)
Mr. Filmore Awas –BS Dev Com	Ten Outstanding Students of the Philippines (TOSP)	CAR (regional)
Development Communication Society	Ten Outstanding Students of the Philippines – one of the 30 finalists	National
	One of the Ten Accomplished Youth Organization (TAYO)	National

Ms. Bella Basalong & Ms. Evelyn Bay-an (BSND IV students) receiving their awards as Outstanding Nutrition and Dietetics Students during the NDAP Convention on Feb. 23, 2005 at Manila Hotel.



### Performance in the Licensure Examination

The performance of BSU graduates in the different licensure examinations shows that the Veterinarians, Librarians, Teachers, and Nurses had higher passing rates over the national passing rate. There were also three board topnotchers, who made it this year: Mr. Allan Labotan, 8<sup>th</sup> placer in Veterinarian Board Exam; Ms. Marilyn Cabfilan and Mr. Pender Botiwey, 17<sup>th</sup> and 20<sup>th</sup> placers, respectively, in Agriculturist Board Exam (Table 15).

Table 15. Performance of BSU graduates in licensure examinations

Board Examination	BSU Passing (%)	National Passing (%)
Agriculturists	27.07 Ms. Marilyn Cabfilan-17 <sup>th</sup> Placer Mr. Pender Botiwey - 20 <sup>th</sup> Placer	29.72
Agricultural Engineering	31.8%	47.8%
Veterinarians	48.57 Mr. Allan Labotan - 8 <sup>th</sup> Placer	37.64
Librarians	35.00%	31.49%
Teachers: Elementary	61%	27.5%
Secondary	41.48%	25.89%
Nutritionists-Dietetics	42%	50%
Foresters	20.97%	35.12%
Nurses: June 2005	78%	49%
Nurses: December 2005	80.8%	50%



## Faculty Awards

Eleven faculty members received awards at the national and local fronts. Notable to mention were the awards obtained by Dr. Joel Lubrica as the First Outstanding Physics Teacher and by Drs. Anatalia Castrence and Conrado Carolino Jr. as Most Outstanding Veterinarians in a countrywide competition (Table 16).

Faculty awardees

Name of Awardee	Title of Award	Awarded by:	College
Dr. Anatalia V. Castrence	Most Outstanding Veterinarian in Education Finalist, Lingkod ng Bayan	CSC-CAR	College of Veterinary Medicine
Dr. Criselda S. Battad	Best Paper in Indigenous Animal Practices in CART		College of Veterinary Medicine
Dr. Conrado C. Carolino Jr.	Most Outstanding Veterinarian in Agribusiness Finalist, Lingkod ng Bayan	CSC-CAR	College of Veterinary Medicine
Dr. Leoncia L. Tandang	Certificate of Recognition	Institute of Plant Breeding, UPLB	College of Agriculture
Dr. Araceli G. Ladilad	Best Paper Award Regional RDE forum	Regional RDE- CAR	College of Agriculture
Dr. Carlos P. Luma-ang	Finalist Search for 2004 Outstanding Teacher	BSU	College of Teacher Education
Dr. Percyveranda P. Lubrica	CSC commendation	CSC- National	College of Teacher Education
Prof. Wilfredo B. Mina	Finalist, Dangal Awardee	CSC-National	College of Teacher Education
Miss Janet S. Montemayor	Best Thesis Awardee	BSU	College of Teacher Education
Dr. Joel V. Lubrica	2005 Outstanding Physics Teacher	DOST-UP-DWLSI – SPP	College of Arts and Sciences
Mrs. Jao-jao S. Del-amen	Outstanding Public Official	CSC –CAR	College of Home Economics and Technology

Dr. Joel V. Lubrica, garnered the Outstanding Physics Teacher Award (Tertiary Level Category) in a recently concluded nationwide competition.

The awarding was done at the UP National Institute for Science and Mathematics Education Development (NISMED) Auditorium in Diliman, Quezon City on December 9, 2005.

The Outstanding Physics Teacher Award was sponsored by five organizations to recognize the efforts of high school and college physics teachers in the country. These organizations were the: Department of Science and Technology(DOST) - Science Education Institute, UP College of Education, UP NISMED, Diwa Learning Systems, Inc.,(DWLSI) and Samahang Pisika ng Pilipinas(SPP).



## Scholarship Grants

A total of 857 students enjoyed scholarship grants of different types. The University granted free tuition fees to 389 students who were: academic achievers, those who served as members of the different performing arts, and officers of the student government, and children of BSU employees. There were 103 children of DILG officials who were enrolled in the University with free tuition fees as mandated by law. Other scholars were sponsored by the government agencies like: CHED, DOST, DAR and other government top officials. Seventy-eight scholars were sponsored by several private organizations as shown in Table 17.

Table 17. Number of students who availed of different types of scholarships grants

Scholarship Type	Male	Female	TOTAL
<b>I. BSU Scholarship Grants</b>			
A. Academics	38	103	141
B. BSU Dependents	16	26	42
C. Athletics	32	20	52
D. Kontad	9	31	40
E. Dramatics	14	15	29
G. Rondalla	8	3	11
H. Student Supreme Gov't.	11	5	16
I. ROTC	4	8	12
J. Culture & Arts Dance Troupe	6	11	17
K. Glee Club	13	11	24
L. Band	1	0	1
M. Mt Collegian	1	3	4
<b>Sub Total</b>			
<b>II. Other Government Sponsored Scholarship</b>			
A. CHED			
1. National Integration Study Grant Program (NISGP)	5	18	23
2. Selected Ethnic Educational Assistance Program (SEGEAP)	8	18	23
3. State Scholarship Program (SSP)	3	14	17
4. Scholarship Program for the Indigenous & Ethnic Peoples (SPIEP)		3	3
5. Congressional Special Study Grant Program (CSSGP)	8	30	38
6. Senate Special Study Grant Program (SSGP)		2	2
7. Congressional Educational Assistance Program (CEAP)	9	63	72
8. SAFE4/STUFAP	5	7	12
B. Dept. of Science & Technology (DOST)	3	6	9
C. Dept. of Agrarian Reform (DAR)	12	20	32
D. La Trinidad-MSB	0	7	7
E. Benguet Provincial Scholarship Program (BPSP)	4	6	10
F. CIBAC-Rep. Emmanuel Joel Villanueva	6	8	14
G. AVE-Rep. Eulogio Magsaysay	6	5	11
H. Buhay-Rep. Rene Velarde	3	0	3
I. Tessie Aquino Oreta	0	5	5
J. GSIS Educhild	2	2	4
K. DILG	29	74	103
<b>Sub Total</b>			
<b>III. Private Sponsored Scholarship</b>			
A. Lepanto Educational Assistance Program (LEAP)	3	12	15
B. ZONTA Club of Baguio	0	9	9
C. Fil-Am Aggies Association of California, USA	1	1	2
D. Phil. Agric. & Resources Research Foundation, Inc. (PARRFI)	0	5	5
E. Ceasaria Romero Gil Foundation	0	2	2
F. Igorot Global Organization-Igorot Scholarship Grant (IGO-ISG)	0	1	1
G. Baguio Bishop's House	2	8	10
H. Fil-Japanese ("Abong")	2	9	11
I. IYAMAN Association Inc.	2	6	8
J. Dr. Dong Sup-lee (Korean)	3	6	9
K. Jang Woon Yoon (Korean)	0	1	1
L. BSU Alumni Association, Inc.	1	2	3
<b>Sub Total</b>			
<b>GRAND TOTAL</b>	<b>246</b>	<b>586</b>	<b>853</b>

# Research and Extension



**New Potato Variety  
IP 84004.7 (GANZA)**



## Research and Development

### A. Technologies/Research Results Generated

1. Potato Clone IP 84004.7 is recommended for variety release in the Philippine Highlands with an official name *Ganza*.
2. For the pest management on potato, application of neem and garlic gave the highest % decrease in population of bacterial wilt in the soil.
3. The application of mulch in potato yielded more large tubers but did not differ significantly in the total yield with the potato plants that were not mulched.
4. The transfer of seeds from high to low elevation may have contributed to the increase in yield of the different varieties, which corroborates with the indigenous seed flow developed by highland farmers.
5. Application of 140-140-220-30 kg/ha of N-P<sub>2</sub>O<sub>5</sub>-K<sub>2</sub>O-MgO gave the highest yield of 62.51 t/ha; highest DMC of 21.50% was obtained on potato applied with 140-140-140; chips derived from potato applied with the different rates of N-P<sub>2</sub>O<sub>5</sub>-K<sub>2</sub>O-MgO are all highly acceptable
6. Application of KNO<sub>3</sub> remarkably increased the yield of potato (Igorota) to as high as 53.85-56.32 t/ha; DMC and chipping quality are highly acceptable
7. Paclobutrazol (PBZ) application to processing potato varieties is recommended during long photoperiods. Plant height was reduced by 23% and 37% at 50 and 100 ppm PBZ application, respectively; increased yield up to 52.85-53.13 t/ha with highly acceptable chipping quality and DMC.
8. *Tagalog*, a highland sweetpotato cultivar was officially approved as a variety with recommended name Bengueta.
9. *Haponita* variety of sweetpotato was selected for juice processing due to its violet color.
10. For strawberry-sweetpotato wine, the formulation ratio of 2:8:8 kgs of sweet potato, strawberry and sugar was highly acceptable by consumers, it is found out to have positive presence of flavonoids and has an alcohol content of 10%.
11. *Nganay*, an indigenous succulent plant found in Kabayan can be processed into candies.
12. School interventions are more effective in reducing cases of underweight children and in increasing vegetable/ root crop consumption.
13. The transfer of development and adoption of appropriate technologies in Banga-an, Banaue, Ifugao involving the participatory approach provided opportunities for utilization and improvement of local resources. Introduced short maturing varieties of cassava provides additional source of food over a shorter period of time and provides opportunity for self-employment. Participatory product development allows partners to learn basic skills of wine processing while utilizing their own resources. Eventually, utilization of indigenous resources helps in maintaining biodiversity conservation.
14. Four promising parasitoids of leaf miner were identified, they are: *Opius sp.*, *Diglypus isaeae*, *Hemiptcaremus varicornis*, and *Neochrysocharis Formosa*.
15. There is a high post harvest loss ranging from 9-50% on major vegetable crops, which accrued from harvesting to retailing practices.
16. It was found out that Ifugao rituals were organized around rice culture and the bululs are representations of rice deities who watch over the seeds in the rice granaries. Various families and communities in the province, which still practice the different rituals especially for the agriculture, consider farming to be a manifestation of their relationship with natural and supernatural forces. Thus, the bulul still play an important part in the agricultural life of the Ifugaos.
17. A survey shows that vegetable farmers in the Northern Philippines still use the traditional way of farming. Most of them did not adopt innovations due to lack of funds, other resources and lack of appropriate technology.
18. A survey identified five fungal pathogens associated to coffee plantations in the 28 sites sampled. *Cercospora coffeicola* Berk and Cke had the highest percentage of prevalence followed by *Hemileia vastratrix* Berk and Cke, *Colletotrichum coffeanum*

- Noak and equally the least in prevalence were *Pestlotia* sp. and *Verticillium* sp.
19. Land productivity in terms of income derived from two succession croppings was highest in carrot-cabbage cropping followed by cabbage-squash, cabbage-lettuce, and cabbage-potato. Tomato production under greenhouse during the off (wet-season) in June to September was very profitable at P2.40/P inv.net margin.
  20. Leafminer infestation on vegetables grown in Benguet and Mountain Province ranged from 10% to as high as 78 % in March. Among the parasitoids identified, *Opius* sp. was observed to be a potential parasitoid to leafminer. Host plants of leafminer such as lettuce, tomato, potato, celery, bean, cucumber, and chrysanthemum are potential plants for rearing *opius* sp.
  21. Two predatory mites of two spotted spider mites were identified namely *Phytoseius* with a life span of 26 to 39 days and 26 to 69 eggs per female and *Amblyseius* having longer life span of 24 to 80 days and 30 to 60 eggs per female. *Phytoseius* is more promising than *Amblyseius*. The Baston ni San Jose is the most appropriate for rearing predatory mites.
  22. Survey shows that most of the farmer-respondents are members of cooperatives or farmers'/ traders' organizations. Few of them keep farm records. Majority of the farmers have pre-contract with traders and the most common market outlet is the La Trinidad Trading Post. Losses in harvest as high as 24% and 12% are incurred during handling and preharvest period, respectively. The average inflow of vegetables in said trading post is 673 MT/day while the outflow is at an average of 354 MT/day having a daily percentage of unsold vegetables of 47.40%.
  23. Chrysanthemum white rust severity was significantly lower especially at the later stages of plant growth with the use of fungicide Azoxystrobin (Amistar 25 SC) compared to the use of biocontrol solution during an on-farm dry season trial (October-December). During the wet season, (May-June), use of biocontrol solution consisting of bacterial antagonists *Pseudomonas* sp. and *Flavobacterium* sp. and fungal hyperparasite *Verticillium* sp. had similar effect with the use of said fungicide particularly at the early and later stages of plant growth. Diseases incidence was practically the same in said control methods in both trials.
  24. Longevity of cultures of chrysanthemum was significantly higher at 22 months and survival of explants at 100% were observed on Improved Reagan, Impala Pink, and Reagan White cultivars under storage temperature of  $\pm 50C$ .
  25. Integration of bacterial antagonists *Pseudomonas* sp. and *Flavobacterium* sp. with lime and PCNB markedly reduced clubroot severity. The carryover effect was still effective up to third cropping of pechay.
  26. In an ocular survey, sampling and diagnosis done in Atok and Buguias, Benguet, the major plant diseases identified were: leaf spot, blackrot, *sclerotinia* rot, clubroot, *fusarium* wilt, powdery mildew, *rhizoctonia* wilt, blight, nematodes, rust
  27. An assessment made in Atok and Buguias, Benguet shows that most of the farms are practically infected with clubroot. Majority of the farmer-respondents know the symptoms of infection of the disease but most of them have no idea of the causal agent and spore viability. Many of the farmers were able to identify the means of spread of the disease and practice basic management measures against the disease. Most of the farmers have the opinion that research is conducted to solve a problem but majority of them do not have research experience.
  28. The nematodes associated with semi-temperate vegetables in the Cordillera that are tentatively found in soil samples are: *Meloidogyne* sp., *Pratylenchus* sp., *Helicotylenchus* sp., *Globodera* sp., and *Trichodorus* sp.

#### B. College-based research Projects

1. Design, construction and evaluation of the Multi-purpose yam sprout stimulator, seed storage and curing plastic box
2. Strawberry dehydration, packing and marketing with funding from CHED-CO thru Com. S. Ocampo, Jr.
3. Awareness and acceptability of BSU, CAS, MPS, Vision Mission, Goals and Objectives
4. Assessment on Computer Literacy Needs of the Local Government Officials in the

Municipality of La Trinidad, Benguet shows that the level of computer literacy of barangay officials was determined to be low.

5. Physico-chemical analysis of selected BSU Food Products
6. Preferred language teaching strategies on learning as perceived by sophomore college students: A contrastive analysis
7. Teachers written exams assessed by students
8. Standardization of Chayote processing techniques
9. Assessment on computer literacy of Benguet State University Employees shows that the level of computer literacy of BSU employees and their need for computer education were determined.
10. Catalytic activity of some fruit and vegetable juices
11. Preservation of "Rono" for vegetable production
12. Floral biodiversity assessment of the BSU Agroforestation Project

### Highlights of activities in various centers/institutes/units

#### Horticulture Research and Training Institute (HORTI)

- Continued implementation of on-going researches on varietal improvement, micropropagation, cropping schemes, pest management, stress management and postharvest technologies.
- Technical services on cultural, Pest management and appropriate postharvest technologies on horticultural crops to visitors and walk-in clients.
- Served as resource persons on technical issues, constraints, opportunities and recommendations covering horticultural crop industries in the highlands during training courses for farmer leaders
- Implemented new Projects "Fertilizer and water management in temperate vegetable cultivation; Improved packaging, quality monitoring and processing of temperate vegetables"
- Swamp production area survey and consolidated for editing and publication matured postproduction technologies.

- Spearheaded the discussion and preparation of position paper and made

representation regarding the Pest Risk Analysis on carrot.

#### Institute of Highland Farming System Agroforestry (IHFSA)

- Nursery establishment of new strains and selections of the ten-year coffee RDE in the Cordillera; production technology development of Arabica coffee; soil management and fertilizer studies during rejuvenation and influence of cropping systems on coffee diseases
- Demonstration farm of coffee rejuvenation and nursery at Bektey.

#### Institute of Social Research and Development (ISRDC)

- Continued the implementation of on-going social researches.
- Spearheaded the launching of Gender and Development (GAD) Section in the Library. There were 40 GAD reference materials that were provided.

#### Semi Temperate Vegetable Research and Development Center (STVRDC)

- Continued the implementation of seven (7) research projects previously approved for implementation
- Prepared and submitted to Flemish Inter-University Council the 2006 budget allocation
- Technical assistance to visitors and clients on pest management, cultural, soil and water management of semi-temperate vegetable
- Started construction of nursery screen house

#### Northern Philippines Root Crops Research & Training Center (NPRCRTC)

- Continued research and development activities on Yam, Potato, Sweet potato, Taro and other aroids.
- Prepared on strengthening strategies of Yam-based processing enterprises in CAR, Regions 1 & 2, potato seed assessment and potato seed production.
- Participated in the 105th Benguet Foundation Day held on November 21-25, 2005.

- Technical assistance in the feasibility preparation to individuals for the potato auction house.
- Resource person in the hands-on training on Ubi-Pineapple in Sablan, Benguet on November 18, 2005.
- Continued dispersal of root crops planting materials, 18,000 pieces has been dispersed for the HVCC project,
- Participated in the Trade Fair Exhibit/Distribution of NPRCRTC Series and Golden Roots Publication during the 31<sup>st</sup> Nutrition Month of Baguio City in July 2005.
- Conducted root crops processing seminar during the Farmer's Forum 2005 in August 2005.
- Conducted winemaking seminar in Bayabas, Sablan in September 2005.
- Dispersal of root crop planting materials to farmers from Mt. Province, Kapangan and Isabela conducted this September 2005.
- Established demo-farms on: Potato production utilizing improved technologies; Root crop HVC cropping system; urban garden showcase
- Establishment of Root crop Database.
- Provided plant disease clinic services such as disease diagnosis and soil analysis.

#### Extension Services

- Disseminated information through media, publications, IEC materials, conduct of trainings and seminars. Several researchers were invited by other organization to serve as resources persons in their own field of specialization.
- Demo-farms on:
  - Established Participatory Technology Adoption Program (PTAP) on Passion fruit, Agroforestry, and Arabica Coffee
  - Production of salad crops using greenhouse-farming technologies using pruning method on tomato and pepper.
  - Production of high value crops using drip irrigation, soil less culture and protected agriculture technologies through the BSU-Plastro Greenhouse.
- Provided technical Assistance Services – responds to the request for assistance by walk-in clients such as farmers, technicians and students. (local and foreign)
- Participated in exhibits during festivals such as

the First Chayote Festival, trade fairs, and other special occasions such as the University Charter Day, Benguet Foundation day, Adivay, etc.

- Conducted Technology validation program with Land Bank on strawberry production, potato seed production and yam seed multiplication and tuber production
- Provided quick response service for strawberry foliage nematode
- Submitted project proposal on strawberry runner production through tissue culture to CHED-CO

#### Training Services

- The Training Directorate of BSU was organized separate from that of the Extension Services to cater to the trainings needs of the community.
- Formulated the Training Needs Assessment (TNA) interview schedule with researchers, technicians, farmers and entrepreneurs.
- Initial moves were done for possible linkaging for training activities
- Conducted benchmarking activity on Training Services Management Office at Office of Research, Extension and Training at Central Luzon State University, Nueva Ecija
- Conducted hands-on training on Oyster Mushroom Production, November 14-16, 2005
- Conducted seminar on Oyster Mushroom Production for CSC-CAR personnel as a culmination activity during the CSC month celebration this October
- Conducted on-site Mushroom Production lecture demo in Lasong, Tadiangan, Tuba, October 15, 2005
- Rendered technical expert services on Shiitake production and plant disease diagnosis on mahogany at Castillo's Agroforestry farm, Nagsurot, Burgos, La Union, Ilocos Norte, October 17-18, 2005
- Assisted Apayao State College in packaging Mushroom Development Programs for Apayao
- Formulated the University proposal for UNLAD & Techno Commercialization submitted to CHED for possible funding
- Started mushroom dehydration techno-commercialization project funded by CHED.

**Awards**

- Dr. Violeta B. Salda received the prestigious Lingkod ng Bayan award from the Civil Service Commission

BSU researchers received the following awards during the Regional RDE Highlights Symposium and Farmer's Forum held on August 4-5, 2005:

- 2nd Place-Research Category: Gene banking and Diversity Analysis of Indigenous Ricebean Collection from Benguet by Dr. Belinda A. Tad-awan.
- 1st Place- Development Category: Assessment of Potato Seed Production Technologies in the Highlands of Northern Philippines by the NPRCRTC
- 1st Place-Research Category: Collection, Evaluation and Introduction of New Varieties of Roses under Benguet Condition by Dr. Araceli G. Ladilad.
- 2nd Place Poster Category: Ganza (IP 84004.7) recommended for the Philippine Highlands by the NPRCRTC.
- 3rd Place Poster Category: Cordillera Highland Integrated Water Resources Management by Dr. Tessie M. Merestela, et. al.

Prof. Betty T. Gayao, receiving the award for Best Paper Category from HARRDEC director, Dr. Sonwright B. Maddul.



Dr. Araceli G. Ladilad receiving the award for Best Research Category from HARRDEC director, Dr. Sonwright B. Maddul and BSU Research Director, Dr. Carlillo P. Laurean.



# Production



### Major Activities

- Designation of a new UBA director
- Creation of an Asset Management Task Force
- Designation of a special assistant at the Business Affairs Office
- Renovation and Reoccupation of the former Business Affairs Office
- Approval of the Computer Loan Program for interested faculty and staff
- Construction of one layer house with a capacity of 5,400 heads
- Perimeter fencing of the mushroom project
- Purchase of equipment for university guest houses
- Inauguration and Opening of the BSU Gladiola Center
- Conduct of researches/studies on product development at the food processing center and bakery
- Finalized draft of the BSU IGP Manual; finalized revised draft for BOR evaluation after due consultation with various sectors
- Involvement of various IGP staff in extension activities and training

### Other Activities

#### Mushroom

- Briefed walk-in clients interested on mushroom production.
- Served as resource person on requested training/seminar on mushroom production.
- Assisted on the supervision of Agroforestry students with regards to mushroom production activities.

#### Food Processing Center

- Research on "Utilization of Ube Water for Wine" is continuing.
- A product development study on "Strawberry Champoy" was started. Initial results were very encouraging. Product was displayed during the BAR-sponsored

Techno Forum and Exhibit on May 18, 2005 at DSWM, Diliman, Quezon City.

- Conducted lecture-demonstration on Strawberry Processing to Long-Long strawberry processors and lectures-demonstration on Chayote processing to interested people during the Adivay 2005 and also to TLE teachers of the Department of Education, CAR.
- Possibility of marketing products outside BSU is being studied. Transactions have been made with SM-Baguio and results were positive. However, deliveries were not yet made because we cannot comply with BFAD certification, which is an important requirement set by SM.

#### Bakery

- Developed new product to meet market demand for quality yet affordable breads such as chayote pie, ice cream, etc.
- Minimized production cost by standardization of recipe.
- Market promotion/study to meet the needs of the consumers.

#### Purified Water Refilling Station

- Processed municipal business permit.
- Examination of water with DOST, and Benguet General Hospital.
- Accreditation of the manager by the local health office.

#### Ladies Dormitory

- Promotion of psychosocial development by giving guidance and counseling to some students and referred 2 residents to the OSA for further counseling.
- Promotion of spiritual development – 16 residents attended PREX seminar.
- Repairs and maintenance of the dorm
- Finalized the brochure for the Residence Hall Bulletin of Information.

Men's Dormitory

- Promotion of the psychosocial development by encouraging the dorm residents to continue the operation of their student store.
- Spiritual development :Invited two residents to be an active member of the Knights of Columbus and 12 attended the PREX seminar.
- Dorm maintenance such as: painting the roof of the laundry area, replacing busted bulbs, faucets,
- Prepared requisitions for dorm repairs like CR, additional kitchen lockers and beds and for construction of extension kitchen.

**Linkages**

The Food Processing Center of the University has linkages with different government and non-government organizations with the technical supports as listed in Table 18.

Table 18. List of agencies linked with in relation to production

Name of Agency	Type of Linkage/Support Given	Project Concerned
Food and Nutrition Research Institute (FNRI)	Technical support for extruded products	Food Processing Project
DOST-CAR	Water and chemical analysis of products	Food Processing Project
Coca-cola Export Corporation	Partner in Nutribreak program	Food Processing Project
SANKO Plastic Phils, Inc.	Technical support in packaging and labeling materials	Food Processing Project
DTI, DA-CAR, DA-BAR	Promotion of products in trade fairs and exhibits	Food Processing Project
SUCs	On-the-job training and expert services	Food Processing Project

**Trainings/Seminars/Workshops attended by Business Affairs Personnel**

Some personnel of the business affairs division attended the trainings to enhance their capabilities. The types of trainings and personnel involved are shown in Table 19.

Table 19. List of trainings/seminars/workshops attended by the Business affairs staff

Title of Trainings/ Sem/Workshops	Duration	Venue	Sponsor	Persons/involved
Training on Mushroom	2 days (May 2-3, 2005)	Mushroom Project	Benguet Network of Development-Oriented Peoples' Organization, Inc/BSU	Janet S. Luis Nancy M. Nuñez Juan A. Cabasoy Domonador S. Orine Selected Benguet Farmers
Use of Philippine Bidding Documents	Half day July 5, 2005	Strawberry Hall, BSU	BSU/Gov't Procurement Policy Board Technical	BSU President and Vice President UBA Director

Table 19. Continued.....

Title of Trainings/ Sem/Workshops	Duration	Venue	Sponsor	Persons/involved
			Support Office/Development Academy of the Philippines	Selected BSU Employees IGP Managers
Training on Mushroom Production	3 days (Nov. 14-16, 2005)	Mushroom Project	BSU	Janet S. Luis Nancy M. Nuñez Juan A. Cabasoy Dominador S. Orine Selected trainees
Training on Basic Watering	Agust 26- 27m 2005	Bontoc, Mt. Province		Erlinda de los Angeles
Training-Orientation of operators of water refilling stations	Dec. 1,2,5,6,2005	La Trinidad, Health Officer	La Trinidad Local Health Unit	Freda D.C. Ruiz
Bakery Fair	Feb. 18-19, 2005	BSU	BSU	All bakery personnel
Saulog Festival Lakbay Aral	July 22-27	Negros Occidental	L.T. Municipal Government	Bakery

### Extension activities

For the year under review, the Business Affairs Division conducted extension activities such as Trainings/seminars/demo and exhibits in coordination with other organizations as enumerated in Table 20.

Table 20. List of extension activities conducted by the Business Affairs staff

Title of Trainings/ Sem/Workshops	Duration	Venue	Sponsor	Persons/involved
Lecture-Demo on Strawberry Processing	Jan 28-29, 2005	BSU-FPC	DOLE, MAO, La Trinidad	J.K. Avila , A. Ampey, M. Omiles
Food Processing Demo	Feb. 3, 2005	BSU Gym	BSU-FPC, CHET, Adivay	J.K. Avila (Coordinator)
Food Processing for Entrepreneurship	May 24, 2005	BSU-FPC	DepEd., CTE	J.K. Avila (Lecturer)
Chayote Processing	May 24, 2005	BSU-FPC	DepEd., CTE	M. Omiles Demonstrators)
Demo on cookies and cake baking at Naguey, Atok Community Outreach	April 15, 2005	BSU		Bakery
Coordinated participation in the exhibits/trade fair for the BSU Food Product Booth	March 18, 2005	BSU	Benguet Province	Bakery
Co-sponsored a baking demo to Benguet Entrepreneurs and Bakers	Aug. 19,2005	BSU	BSU-suppliers	Bakery
Assisted in organizing the La Trinidad bakeries Association	Oct.-Dec., 2005	La Trinidad		Bakery
Assisted in commercial production of Chayote based Products	Nov. 2005	BSU	BSU	Bakery

### Summary of Financial Statement of Income Generating Projects

For the year 2005, the following table shows that the projects under Revolving Fund 161 was able to generate a total net income of P483, 824.14 after the deduction of all variable costs and fixed costs, while projects under Revolving Fund 163 had a net income of P260, 086.58, having a grand total of P743, 910.72. So far, the gaining projects under RF 161 are: Poultry (egg production), Bakery, Souvenir products, Potato Seed production, Food Processing, Marketing Center, and Food Processing Center. The gaining projects under the RF 163 are: Home Management and Executive Guesthouses, Veterinary clinic, Garments, RSDC and SLS canteens.

Table 21. Summary of income from different projects of the University

Project RF 161	SALES	VARIABLE COST	PROD'N INCOME	FIXED COST*	NET INCOME
Bakery	4,195,470.87	3,751,452.03	444,018.84	358,020.58	85,998.26
Food Proc'ng Center	4,317,315.75	4,000,083.31	317,232.44	291,686.08	25,546.36
Souvenir Products	118,765.50	82,538.75	36,226.75	31,200.80	5,025.95
Marketing Center	13,728,879.87	12,973,906.76	754,973.11	434,851.51	320,121.60
Multi-Vege Project	340,198.00	203,291.00	136,907.00	104,540.20	32,366.80
Mushroom	191,168.00	75,964.61	115,203.39	30,176.00	(14,972.61)
Potato Seed Prod'n	79,950.00	17,855.60	62,094.40	58,580.60	3,513.80
Poultry	5,717,191.05	5,151,182.99	566,008.06	219,589.88	346,418.18
Rootcrops Proc'ng	47,803.00	21,036.00	26,767.00	34,806.20	(8,039.20)
Fresh Veg/Seeds	122,883.10	111,460.50	11,422.60	93,740.80	(82,318.20)
Strawberry Prod'n	301,843.00	256,339.80	45,503.20	135,481.00	(89,977.80)
Swine Production	588,230.00	591,827.00	(3,597.00)	76,036.00	(79,633.00)
<b>TOTAL</b>	<b>29,749,698.14</b>	<b>27,297,164.35</b>	<b>2,452,533.79</b>	<b>1,968,709.65</b>	<b>483,824.14</b>
<b>Project RF 163</b>					
Garments	649,415.00	536,450.93	112,964.07	21,038.12	91,925.95
CEAT Canteen	195,415.25	188,572.76	6,842.49	15,790.80	(8,948.31)
ELS Canteen	487,954.50	445,655.42	42,299.08	90,621.00	(48,321.92)
HME Guesthouse	739,420.00	287,013.49	452,406.51	176,591.25	275,815.26
Dormitory	406,325.00	326,212.70	80,112.30	463,786.68	(383,674.38)
RSDC Canteen	5,650,536.28	4,881,261.10	769,275.18	483,252.09	286,023.09
SLS Canteen	671,121.20	402,147.67	268,973.53	233,469.72	35,503.81
VET Clinic	474,398.12	280,242.60	194,155.52	45,375.00	148,780.52
Water Refilling	527,331.10	531,536.98	(4,205.88)	132,811.56	(137,017.44)
<b>TOTAL GRAND TOTAL</b>	<b>9,801,916.45</b>	<b>7,879,093.65</b>	<b>1,922,822.80</b>	<b>1,662,736.22</b>	<b>260,086.58</b>
					<b>743,910.72</b>

\* Includes space rental and depreciation cost.

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A premiere state university in Southeast Asia

## MISSION

Development of people imbued with excellence and social conscience and who actively generate and promote environment- friendly technologies to improve the quality of life.

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**Caissa D. Timay**, Administrative Aide IV  
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