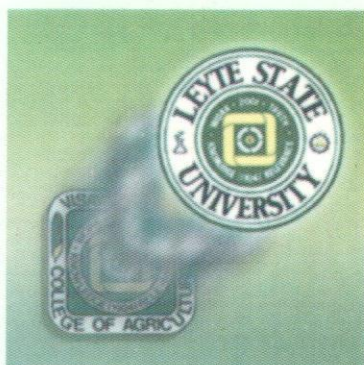


LSU

Leyte State University

Visca, Baybay, Leyte, Philippines

Annual Report 2001





Leyte State University

6521 Visca, Baybay, Leyte, Philippines

Office of the President

1 April 2002

Her Excellency
President Gloria Macapagal-Arroyo
Republic of the Philippines
Malacañan, Manila

Through: **Hon. Ester A. Garcia**
Chairman, Board of Regents
Leyte State University

Madam:

May I have the honor to submit the Annual Report of the Leyte State University (LSU) for CY 2001.

This report highlights the achievements of the University in line with its undying zeal and commitment for agricultural and rural development.

I wish to convey my profound gratitude for your generous and continuing support for LSU's growth and improvement.

Very truly yours,


PACIENCIA P. MILAN
President

Annual Report 2001



Leyte State University
Visca, Baybay, Leyte, Philippines

VISION

LSU as center of excellence in education and research in agriculture and allied fields in the Visayas.

PANGLANTAW

Ang LSU mao ang sentro sa kahanas sa edukasyon ug pagpanukiduki bahin sa agrikultura ug sa ubang susamang pagtuon dinhi sa Kabisayaan.

MISSION

Attainment of the highest quality of human capital and scientific knowledge for the sustained growth and development of agriculture, fisheries, forestry, and agro-industries.

KATUYOAN

Pagkab-ot sa pinakataas nga kalidad sa pagpalambo sa kahibalo ug kasinatian sa siyensiya alang sa tunhay nga pag-ugmad sa agrikultura, pangisda, kalasangan, ug mga industriyang pang-agrikultura.

OVERALL GOALS

1. Produce highly competent manpower in agriculture and allied fields to serve the development needs of the region.
2. Generate agricultural production and processing technologies and technology dissemination strategies adaptable to small farms.
3. Advocate effective policy formulation and management of rural development programs.
4. Improve the productivity, profitability, equity, and well-being of the Visayan farmers and their household members through ecologically sound natural resources management.
5. Promote effectiveness, efficiency, and productivity in the operation of the university system.

GENERAL OBJECTIVES

1. To strive for excellence in agriculture education for regional and rural development.
2. To sharpen its focus on impact programs and projects in instruction, research, and the application of new knowledge for the well-being of the small Visayan farmers and rural families.
3. To build enduring linkages with national and regional institutions and agencies for the promotion of relevant instruction, meaningful research, and effective transmission of useful knowledge in the rural communities in the Visayas.



Foreword

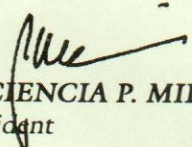
The year 2001 is one of the most memorable years in the life of Leyte State University (LSU). It marks the maiden year of its existence as a university and the complete institutionalization of the five-campus LSU System.

Aside from its institutional transformation, LSU's commendable achievements during the year manifest the concerted efforts of its constituents and the unrelenting support of various agencies and financial institutions for the attainment of its goals and objectives.

LSU's triumphs are coupled with great challenges and responsibilities in view of its mandate as an agricultural development arm of the government. As an ever-dynamic academic institution committed to initiate rural development reforms, LSU aggressively embraces such challenges as opportunities for a more meaningful existence and institutional growth.

In the years ahead, LSU shall continue to improve effectiveness and efficiency in carrying out its functions and services. With divine inspiration and guidance, it shall strengthen further its avowed commitment for countryside development.

The institution's many achievements also serve as a collective personal triumph of its constituents. To all of them, I give my thanks and appreciation.


PACIENCIA P. MILAN
President

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*The conversion of ViSCA into LSU provides greater challenge
in fulfilling its mission for rural development.*

Pres. Milan carries the university
mace, which symbolizes power
and responsibility, during her
investiture as the first LSU
President.

ACCOMPLISHMENT HIGHLIGHTS

The year 2001 was a remarkable, fruitful, and fulfilling year for the Leyte State University in its agricultural and rural development pursuits.

Foremost, it successfully attained its long cherished dream to be converted into a university. The elevation of its institutional status paved the way for the expansion of its academic as well as research and extension programs. The prestige of being a university likewise boosted the morale of the LSU constituents and inspired them further in performing their tasks.

Dr. Paciencia P. Milan's appointment as the first LSU President and the first woman ever to lead the institution provided the essential transition and new aura of leadership for the University. During her first year as University president, she introduced structural and administrative reforms to establish a more favorable working environment that will promote LSU's growth. She likewise expeditiously pushed the approval of the new LSU organizational structure for full implementation in 2002.

The complete integration of the four formerly CHED-supervised institutions into its organizational system is no mean feat for LSU. As the identified mother institution, LSU gently and skillfully led the establishment of a systematic five-campus university mechanism of operation. It likewise organized the restructuring of programs in consonance with its revised institutional mandate and in line with the government's thrusts and priorities.

Moreover, it continued to uphold strong collaboration and complementation of its instruction, research, and extension programs to be able to provide more meaningful and relevant services for its clientele.

INSTRUCTION

LSU achieved its instruction goals for the year with flying colors and sustained its earned reputation as the Center of Excellence (COE) in agricultural education, agricultural engineering, and forestry. This is affirmed by the graduates' commendable performance in the different licensure examinations. In the Professional Agricultural Engineer Licensure Examination, 100 percent of the LSU examinees passed and two copped 3rd and 4th places; and in the Forester's Licensure Examination, 70.73 percent passed and one got 8th place. The University's passing percentage in the Veterinary Medicine Licensure Examination is 83.33% and in the Licensure Examination for Teachers, 65.87%. LSU's Department of Forestry earned another national recognition for maintaining its rank as second best forestry school in the country and as one of the centers of excellence in forestry.

The University continuously worked for the improvement of its instructional programs to address current and future needs. During the year, it realized the offering of the Master of Science in Agricultural Engineering, M.S. in Forestry, and Doctor of Veterinary Medicine. It also conceptualized the institutionalization of undergraduate curricular programs in information technology, biotechnology, and environmental sciences. Furthermore, it encouraged faculty involvement in research and extension activities as an important strategy to enrich instructional services.

While striving to maximize utilization of limited financial and physical resources, the LSU Administration also untiringly mustered strong linkage/



Pres. Milan (center) and representatives from the Univ. of Gottingen - Prof. Dr. Uwe Muuss and Dr. Edzo Veldkamp mull over the envisioned new UG-LSU collaborative pursuit.

collaboration with local and international agencies to draw support for its programs. Pres. Milan's official trip to Germany yielded an initial understanding/agreement with the George-August University of Gottingen on the prospective offering of an M.S. program in Tropical/International Forestry as an English course. The University also forged partnership with the Research Institute of Tropical Medicine (RITM) in Manila to strengthen knowledge of its animal science and veterinary medicine students through practicum and on-site training.

Meanwhile, the Center for Social Research also made important contributions in LSU's pursuits as the think tank and funnel of development efforts for farmers and the rural poor. Among others, it conceptualized and implemented a special educational program for high school out-of-school youths in Western Leyte. Dubbed as "Agri-Entrepreneurship and Functional Education Program (AEFEP) for High School Out-of-School Youth", the program is a subproject of the Philippine Out-of-School Children and Youth Development (POSCYD) Project which is a nationwide educational undertaking of the Children and Youth Foundation of the Philippines (CYFD) in collaboration with the Department of Social Welfare and Development (DSWD) and local government units.

RESEARCH

LSU pursued its research mission by conducting scientific studies which generally sought to improve agricultural productivity and income while giving emphasis to environmental conservation and protection. In addition to almost 200 existing or continuing research studies on various commodities, 26 new studies were implemented during the year. These include 12 studies on rootcrops, 4 on abaca, 3 on legumes, 2 on coconut, 3 on forestry, and 1 each on vegetables and ecosystems.

Such research ventures dished out useful production/cultural management technologies or information such as : a) micro-propagation technique for yam, sweet potato, taro, and cassava, b) planting of *Crotalaria* spp. and *Tagetes* as alternative management strategy, c) taro varieties appropriate for rainfed cropping systems, d) tomato variety (PSB Tma) adapted to Region 8, e) SM-808 as new cassava variety for starch, and f) orchard management in marginal areas. In the area of postharvest and food processing, the following technologies were also produced: a) handmade paper from abaca wastes, b) fried strips from sweetpotato, and c) selected coconut varieties for coco-crisp production. Three important processing machines and equipment were likewise designed and fabricated for village use: a) micro-flourmill, b) rootcrop chips dryer, and c) rootcrop washer/peeler and another three recently developed agricultural equipment were registered for patenting: a) tensile strength meter, b) moisture meter, and c) twisting machine.

Skills training for the youth through the AEFEP.



LSU's track record in research increased the confidence of other institutions to support its programs or tap the University's support in collaborative research activities. Among the institutions which signified support or partnership with LSU are: DA-BAR- on the development of an integrated agricultural database; DA-Region 8- for the establishment and operationalization of the regional RDE network; Conservation International-Philippines- promoting biodiversity conservation and sustainable resource management; International Rice Research Institute- implementation of an on-station rainfed lowland rice cropping field experiment; Isabela State University- rootcrop R and D partnership for five years; Panay State Polytechnic College- R and D collaborative partnership on rootcrops, abaca, coconut, upland farming systems, and marine resources management; and UPLB-College of Development Communication- research collaboration on the teaching and practice of development communication in the Philippines.

EXTENSION

The year 2001 saw LSU expand its extension and outreach services to Samar and Biliran provinces. The different extension units of the University carried out their respective roles in consonance with the shared or common institutional objectives for rural development.

Among LSU's major accomplishments in extension is the implementation of 18 projects which mostly sought to promote utilization of technologies generated from research. Aside from extension project implementation, the University actively provided the rural clientele with technical services through trainings, lectures, and consultations; as well as helped build/strengthen the capability of local government units, development workers and farmers in carrying out rural development endeavors. It also distributed 2,687 technoguides/brochures, numerous seeds and other planting materials on different crops, and 28 portable processing machines.

The University also performed other technology promotion activities which include holding of the Farmers' Field Day and Flower and Garden Show as venues to showcase its technologies. It maintained its technology exhibits to be shown to campus visitors all year round and participated in off-campus technology fairs.

As part of its commitment to provide relevant rural development services, LSU had its extension projects evaluated by a multi-sectoral Ad Hoc Review Committee composed of representatives from the DA-LGU, DA-RFU, ATI-NTC, farmer leaders, and members of the LSU Advisory Council for Extension.



Showcasing the potential of growing ornamental plants as an interesting business through the Annual Flower and Garden Show.



One of the Rainforestation demonstration farms established through the newly completed GTZ-funded project maintained by LSU.

It also organized fora and other venues for intellectual exchange that usher the development of strategies and approaches to better understand clientele needs and problems, design appropriate outreach projects and services, and address concerns on environmental conservation and agricultural sustainability.

LSU acknowledges that it has yet much to do to achieve its extension goals as its activities were greatly hampered by the very tight extension budget. Hence, it sought measures to alleviate resource limitations through collaboration and cost-sharing with other development agencies in the implementation of some extension projects.

AWARDS EARNED

As a result of their dedication to service, creativity, and drive for excellence in their respective undertakings, some LSU faculty and staff earned distinctive awards during the year. The following international and national awardees added more feathers in LSU's cap:

- **Dr. Monina M. Escalada**- Medal for Agricultural Development from the Vietnam Ministry of Agriculture and Rural Development;
- **Ms. Adelina O. Carreno**- George Atkins Communications Award from the Developing Countries Farm Radio Network, Toronto, Canada;
- **Dr. Oscar B. Posas**- Nestle Philippines Outstanding Professional in Animal Science Extension Award;
- **Dr. Celsa A. Quimio**- DA Secretary's Award for her paper entitled "Enhancement of Submergence Tolerance in Transgenic Rice Overproducing Pyruvate Decarboxylase";
- **Dr. Lina T. Villacarlos**- BAR Director's Award for R and D Paper (published research category) entitled "Two Neozygites Species (*Zygomycetes: Entomophthorales*) Infecting Aphids and Mealybugs on Leyte Islands" and AFMA R and D Paper Award (unpublished research category) for her study on "*Neozygites fresenii* (Now.) Reur and Kell. (*Zygomycetes: Entomophthorales*) as a mortality factor of the black bean aphids, *Aphis craccivora* (Homoptera: Aphididae) in ViSCA"; and
- **Engr. Feliciano G. Sinon**- AFMA Best R and D Paper Award- unpublished research category, for his study on the "Development of a Portable Moisture Meter for Abaca Fiber".

Meanwhile, **Dr. Jose R. Pardales** and **Dr. Lina T. Villacarlos** were granted one-year professorial chairs by the Philippine Agriculture and Resources Research Foundation, Inc. (PARRFI). A considerable number of LSU staff also received awards at the regional level.

LSU'S ALLOTMENTS, EXPENDITURES, AND BALANCES, CY 2000 AND 2001*

Function	Allotment		Expenditure		Balance	
	2000	2001	2000	2001	2000**	2000***
Current Appropriation						
A. Instruction Services						
1. Advance Education	9,318,000.00	8,350,000.00	8,976,941.65	8,216,898.54	341,058.35	133,101.46
2. Higher Education	63,834,717.00	134,895,533.47	62,583,996.55	129,491,261.48	1,250,720.45	5,404,271.98
3. Secondary Education	7,009,000.00	6,622,000.00	6,895,667.60	6,903,659.41	113,332.40	-281,659.41
B. Research Services	34,669,000.00	30,524,000.00	34,161,829.89	31,159,856.66	507,170.11	-635,856.66
C. Extension Services	9,231,000.00	8,688,000.00	7,635,335.30	7,648,996.10	1,595,664.70	1,039,003.90
D. Auxiliary Services	9,417,000.00	9,464,000.00	9,636,957.07	10,485,566.66	-219,957.07	-1,021,566.66
E. General Administration And Support Services	36,803,822.00	37,393,204.53	40,390,855.11	42,030,248.02	-3,587,033.11	-4,637,043.49
F. Productivity Incentive Bonus	2,409,648.00	1,158,000.00	2,409,648.00	1,158,000.00		
G. Building & Structures	4,431,000.00		3,198,747.06		1,232,252.94	
H. Capital Outlay/Equipment	3,800,000.00				3,800,000.00	
I. Foreign Assisted Project						
TOTAL	180,923,187.00	237,094,738.00	175,889,978.23	237,094,486.88	5,033,208.77	251.11

*With BNAC

**Continuing in 2001 and expended

***Continuing in 2002

*Equipping future agricultural workers with essential skills
for agricultural development.*

Agricultural Engineering class
performing a field survey
exercise.

INSTRUCTION

Mission

Development of excellent human resource through effective and relevant instructional programs in agriculture, fisheries, forestry, and agro-industries.

CURRICULAR IMPROVEMENT

In line with its mission and goals in instruction, LSU developed new curricular programs and revised existing ones to suit to prevailing and emerging needs of the region and of the whole country.

GRADUATE PROGRAM

- The M.S. in Forestry and M.S. in Agricultural Engineering degree programs were offered effective first semester, SY 2001-2002.
- Botany as a major field under the M.S. program was approved at the Graduate School Executive Committee level.

UNDERGRADUATE PROGRAM

- The straight six-year Doctor of Veterinary Medicine and the revised B.S. Agricultural Chemistry curricula were implemented effective first semester, SY 2001-2002.
- Botany as a new major field of specialization under the B.S. Biology curriculum was approved by the Board of Regents on November 14 for implementation effective first semester, SY 2002-2003.
- The proposed offering of the Diploma in Physical Education was approved by the University Curriculum Committee and endorsed for Board of Regent's approval.

NON-DEGREE PROGRAM

- The Center for Social Research launched on July 17 the "Agri-Entrepreneurship and Functional Education Program (AEFEP) for Out-of-School Youth in Western Leyte" In collaboration with the Children and Youth Foundation of the Philippines (CYFD), Technical Education and Skills Development Authority (TESDA), Department of Education (DepEd), Department of Social Welfare and Development (DSWD), and Local Government Units (LGUs) of the municipalities covered by the program.

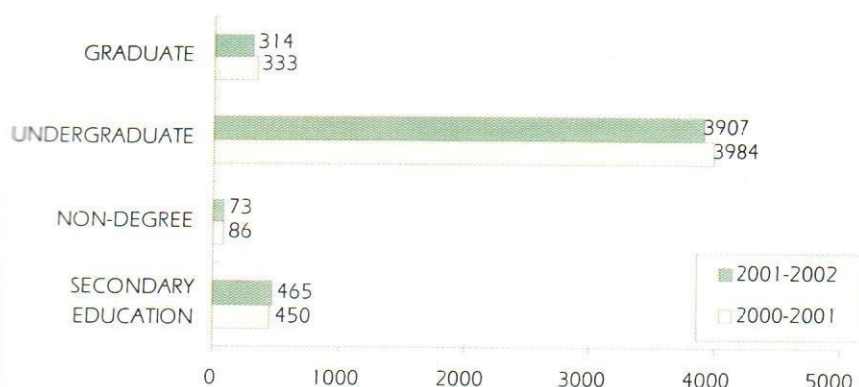
ENROLMENT PROFILE

During school year 2001-2002, the LSU-Main Campus had a total enrolment of 4,759. This included 314 graduate students (27 PhD and 287 MS); 3,907 undergraduate; and 71 students in the non-degree program. The Doctor of Veterinary Medicine program had the greatest increase in enrolment - 100 (66.7%); followed by the B.S. Biology - 114 (32.6%). As a laboratory unit of the University, the high school (LSU-LHS) maintained a manageable number of enrolment of not more than 500 students each year.

STUDENTS AND ALUMNI ACHIEVEMENTS

- The ViSCA ROTC Unit was awarded as the Best ROTC Unit of the Philippines after obtaining the highest overall score during the National Annual Administrative and Tactical Inspection/Performance Evaluation (NAAPE) on February 1. During the said national evaluation, ViSCA ROTCU was adjudged as Best in First Aid and Best in Disassembling and Assembling M16 Rifle.

LSU-MAIN CAMPUS COMPARATIVE STUDENT ENROLMENT BY DEGREE, FIRST SEMESTER 2000-2001 AND 2001-2002.



- During the 48th Collegiate Commencement Exercises on April 7, the following honor graduates were also accorded special awards: Ann Roselle O. Armenia (*summa cum laude*)- ViSCA Presidential Award and Manuel B. Villar, Jr. Award for Academic Excellence; Santiago T. Peña, Jr. (*cum laude*)- Remedios L. Petilla Award as Outstanding Student of ViSCA and Breeders Award of Excellence; Adrian P. Ybañez (*cum laude*)- Pacifica Award and Breeders Award of Excellence; and Darrel L. Serenio (*cum laude*)- Breeders Award of Excellence. Ann Roselle O. Armenia, Ruby Ann O. Escasinas, Santiago T. Peña Jr. and Nel Anterson O. Landerito were also among the first recipients of the Ten Outstanding Graduates Award (TOGA) in Region 8 given by the Perpetual Help Credit Cooperative Inc. of Tacloban City on May 10.
- Roberto L. Abbu, Jr. received the Endeavor Award during the ViSCA Honors and Awards Convocation on February 27.
- Jo Marie U. Bacusmo, Marianne Agnes M. Taveros and Carmille Joanne C. Bales won 1st, 2nd and 3rd places, respectively in the Philippine Statistical Quiz (provincial level) held in Ormoc City on November 19; and Jo Marie U. Bacusmo got 3rd place during the Philippine Statistics Quiz Regional Finals in Palo, Leyte on November 22.
- Dennis Doñes, Mariano Adre and Roy Ello copped the 1st, 2nd and 3rd places, respectively, during the First Bacubac Marathon Competition held in Samar on August 22.
- The following LSU-LHS students won in the different regional and local competitions:
 Marianne Agnes Taveros- 1st place, Intel Philippine Science Fair Regional Level Stage Competition (individual special category, cluster II) in Palo, Leyte on January 18-19.
 Erik-Ray Matthew Palomar, April Rose Fulache, Jeella Acedo, and Maria Niña Corazon Ceniza- 1st place, Inter-School Science Quiz team competition; and Jahleel Acedo, Diana Jean Lemos, and Nuha Mei Malaki- 1st place, Inter-School Math Olympiad team competition held at LSU on September 25.
 Eva Marie de los Reyes, Quenstein Lauzon, Emily Luna, Amel Kareen Filipino, and Ma. Theresa Palma- won the Science Research Posters Competition conducted by the Philippine Organization of Science and Technology Educators (POSTE) at LSU on November 23-24.



(Top photo) ROTC cadets showing their skills during the NAAPE.

(Bottom) Some of the SY 2000-2001 honor graduates.

The LSU-LHS Drum and Bugle Corps won 2nd and 3rd places in the Drum and Bugle Corps Open Competition held in Baybay, Leyte on December 26 and in Sogod, Southern Leyte on October 18, respectively.

GRADUATES

COLLEGIATE PROGRAM

The LSU-Main Campus turned out the following number of graduates in its different curricular programs during its 48th Collegiate Commencement Exercises: 29- graduate degree program (2 PhD, 7 MS, 18 MagDev, and 2 Med); and 444 in the undergraduate level (125 BSAgEd, 61 BSAB, 58 BAS, 47 BSHE, 42 BSA, 37 BSF, 29 BSFT, 11 BSAgDev, 11 BSDC, 8 BSAC, 7 BSS, 5 DVM, 2 BSAE, and 1 HET). One graduated as *summa cum laude* and 14 as *cum laude*.

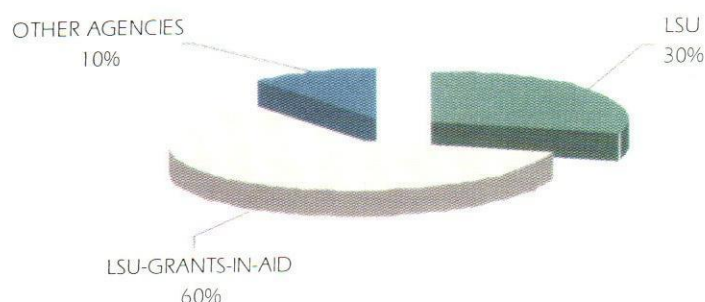
Twenty-eight (28) graduate students enjoyed scholarship/assistantship grants from SPREAD- 21, Civil Service Commission- 4, CHED-FAPE- 1, DOST- 1, FIDA-GSP- 1; while 645 undergraduate students enjoyed scholarship/grants from ViSCA- 192, ViSCA grants-in-aid- 387, and other agencies- 66.

SECONDARY EDUCATION PROGRAM

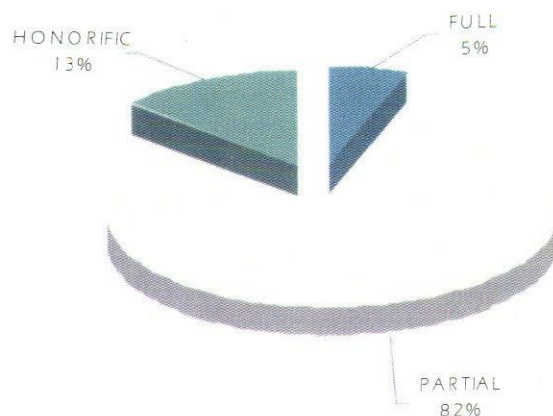
The LSU-LHS turned out 112 graduates during its 71st Commencement Exercises. Six marched "With High Honors" and 17 "With Honors".

A total of 183 high school students enjoyed LSU scholarships: Full- 10 (5.5%), Partial- 149 (81.4%) and Honorific- 24 (13.1%).

COLLEGE STUDENTS ENJOYING SCHOLARSHIP/GRANTS FROM LSU AND OTHER AGENCIES.



HIGH SCHOOL STUDENTS ENJOYING LSU SCHOLARSHIPS.





Veterinary Medicine students performing surgical operation.

COLLABORATIONS

Initial agreement was made with the George-August University of Gottingen, Germany on the joint offering of an M. S. program in Tropical/International Forestry as an English course

The Southeast Asia Network for Agroforestry Education (SEANAFE)-ICRAF and the Australian Centre for International Agricultural Research (ACIAR)-Smallholder Forestry Project extended thesis support to forestry students and donated books, journals and other reading materials in forestry, agroforestry and its related fields to the University Library.

FACULTY STRENGTH AND DEVELOPMENT

The instruction activities of the LSU-Main Campus were facilitated by 250 faculty members (98 PhD, 113 MS, and 39 BS degree holders). Fifty-one (51) of them were however detailed in research centers, 3 on secondment in other government offices, and 7 on sabbatical leave. Eight faculty members pursued advanced studies (7 for PhD and 1 for MS) with scholarship/fellowship grants from Monbusho, FAPE, and LSU. The academic staff also had the opportunity to attend 34 international, 84 national, 54 regional, and 78 local trainings/seminars/conferences.

A Training-Seminar for Teachers was conducted for the faculty members handling graduate and undergraduate seminar courses on June 7-8. It sought to standardize the course content and enhance teacher competence in preparing seminar paper, developing and using audiovisual aids and rating seminar students.

LSU GRADUATES' PERFORMANCE IN LICENSURE EXAMINATIONS

Examination	Top 10 Rank	National Passing Percentage	LSU Passing Percentage
Licensure Examination for Teachers			
• Agric'l Education	-	34.30%	65.87%
• Home Economics	-	34.30%	68.12%
Agricultural Engineering	3 rd & 4 th places	51.55%	100.00%
Forestry	8 th place	53.47%	70.73%
Veterinary Medicine	-	48.03%	83.33%

LSU MAIN CAMPUS COMPARATIVE STUDENT ENROLLMENT BY SEX, FIRST SEMESTER 2000-2001 AND 2001-2002

Degree Program	1 st Sem. 2000-2001			1 st Sem. 2001-2002			Percent Increase/ (Decrease)
	M	F	Total	M	F	Total	
1. Graduate Program							
Doctor of Philosophy	12	13	25	10	17	27	8.00
Master of Science	41	107	148	39	92	131	(11.50)
Master of Ag. Dev.*	61	83	144	60	83	143	(0.70)
Master of Education	8	4	12	6	5	11	(8.30)
Unclassified	3	1	4	1	1	2	(50.00)
SUB-TOTAL	125	208	333	116	198	314	(5.70)
2. Undergraduate Degree Program							
B.S. Agriculture	218	317	535	243	336	579	8.20
B.S. Ag. Education	214	688	902	187	620	807	(10.50)
B.S. Ag. Development	34	51	85	31	53	84	(1.20)
B.S. Home Economics	15	375	390	18	353	371	(4.90)
B.S. Dev. Communication	35	99	134	30	119	149	11.20
B.S. Ag. Engineering	138	65	203	145	59	204	0.50
B.S. Agribusiness	173	347	520	162	387	549	5.60
Bachelor of Animal Science	241	247	488	223	228	451	(7.60)
DV Medicine	31	29	60	50	50	100	66.70
B.S. Ag. Chemistry	27	36	63	26	40	66	4.80
B.S. Food Technology	31	109	140	26	87	113	(19.30)
B.S. Statistics	43	70	113	39	75	114	0.90
B.S. Biology	19	67	86	23	91	114	32.60
B.S. Forestry	170	95	265	129	77	206	(22.30)
SUB-TOTAL	1389	2595	3984	1332	2575	3907	(1.90)
3. Non-Degree Program							
Home Economics Technician	36	50	86	32	39	71	(17.40)
Unclassified	0	0	0	1	1	2	0.00
SUB-TOTAL	36	50	86	33	40	73	(15.10)
4. Secondary Education Program							
Ag. Science Curriculum	197	253	450	207	258	465	3.30
SUB-TOTAL	197	253	450	207	258	465	3.30
GRAND TOTAL	1747	3106	4853	1688	3071	4759	(1.90)

*Extramural enrolment is included

PUBLICATIONS AUTHORED BY FACULTY MEMBERS AND RESEARCHERS

Author	Title	Where Published
Asio, VB, ZS Chen, and CC Tsai, 2001	Genesis of Inceptisols on a Volcanic Landscape in Taiwan	Soil Science, USA, Vol. 166 No. 4, pp. 1-12
Palomar, MK, EA Barsalote, and HSV Colis, 2000	Distribution and Disease Characterization of Sweetpotato Feathery Mottle Virus	Annals of Tropical Research, 22 (1 & 2): pp. 16-30
Pardales, JR Jr., MC Verutiao, RF Sebidos, CS Esquibel, & DV Belmonte Jr., 2001	Waterlogging Damage on Cassava During Plant Establishment Period	Philippine Agricultural Scientist, 84:138-140
Pardales, JR Jr., MC Roa, MC Campilan, and M Kadohira, 2001	Institutional Experience with Participatory Plant Establishment Period	Proceedings of the International Workshop on Participatory Technology Development and Local Knowledge for Sustainable Land Use in Southeast Asia. Chiang Mai, Thailand, pp. 245-252
Vasquez, E., Conrad, J., Vogler, B., Reeb, S., Klaiber, I., Papajewski, S., Roos, G. Setzer, M., and Kraus, W., 2001	Isoterchebulin and 4,6,0-Isoterchebuloyl-D-Glucose, Novel Hydrolysable Tannins from Terminalia macroptera	J. Nat. Prod. 64(3), 294-299.

Research as a vital source of new knowledge to usher economic growth and development.

Prof. Tessie C. Nuñez, scientist, observes the tissue-cultured macapuno seedlings. The new macapuno technology is one of the most economically promising technologies developed by LSU scientist. (Inset) Ready to plant Macapuno seedlings.

RESEARCH & DEVELOPMENT

Mission

Generation of knowledge and technologies for the sustained growth and global competitiveness of agriculture, fisheries, forestry, and agro-industries.

Guided by the current development thrusts and priorities, LSU implemented a total of 208 research projects including 26 new studies on various commodities. The newly completed studies produced useful technologies and information for farmers, researchers, extension agents, and other development workers.

TECHNOLOGIES/INFORMATION FOR DISSEMINATION

- Micropropagation technique for yam, sweetpotato, taro, and cassava
- Fried strips from sweetpotato
- Micro-flourmill- for milling dried rootcrop chips into fine flour
- Chips Dryer- a cabinet type, rice hull-fueled rootcrop chips dryer
- Rootcrop Washer/Peeler
- Handmade paper production from abaca wastes
- Selected coconut varieties for coco-crisp production
- Tomato variety (PSB Tma) adapted to Region 8
- Planting of *Crotalaria* spp. and *Tagetes* as alternative crop management strategy
- Release of SM-808 as new cassava variety for starch
- Taro varieties appropriate for rainfed cropping systems
- Orchard management in marginal areas

EQUIPMENT/ MACHINE FOR PATENTING

- Tensile Strength Meter
- Moisture Meter
- Twisting Machine

GERMPLASM COLLECTION

NARC collected 66 additional abaca accessions, making a total of 724 abaca accessions in its germplasm collection.

COLLABORATIONS

LSU entered into memoranda of agreement (MOA) and understanding (MOU) with the following agencies and institutions on various vital concerns:

- Panay State Polytechnic College (PSPC)- on rootcrops, abaca, coconut, upland farming systems, and marine resources management R & D collaborative partnership effective February 27.
- International Rice Research Institute (IRRI)- on a joint on-station rainfed lowland rice cropping field experiment at the University effective May 16.



DA Sec. Leonardo O. Montemayor responds to queries during the Farmers & Fisherfolks Dialogue.

- Isabela State University (ISU)- on rootcrops R & D partnership for five years effective May 24.
- UPLB-College of Development Communication- research collaboration in the teaching and practice of development communication in the Philippines effective May 28.
- DA-BAR- on the development of an integrated database that can be used in the analyses of patterns of technology diffusion and impact; and in establishing reference points for monitoring the process of agricultural development especially with respect to technological transformation, effective August 15.
- Conservation International-Philippines (CI, Phil)- on promoting biodiversity conservation and sustainable resource management effective October 22.
- DA-Regional Field Unit No. 8 (DA-RFU8)- for the establishment and operationalization of the regional RDE network effective November 21.

SIGNIFICANCE OF COMPLETED RESEARCH PROJECTS

- Rainforest Protection on Philippine Islands

The Cienda-San Vicente Ecology Park and Mt. Pangasugan Eco-Tourism community-based projects were developed to protect and preserve the biodiversity of the local forests.

Even after the termination of the GTZ-supported ecology program at LSU, 25 individual farmers and 3 upland farmer associations continued to adopt the rainforestation farming system promoted by the program. The ITE field staff also continued to monitor the Rainforestation Farming Demonstration Farm and Ecology Park at the LSU-Main Campus. Livelihood projects on commercial nursery were established in Barangays Gabas, Patag, and Pangasugan of Baybay; production of indigenous forest tree species by the Cienda-San Vicente Farmers Association and Farmers Association for the Protection of Mt. Pangasugan; and indoor plant and cut flower production by the Patag Rainforest Association.

- Local Knowledge on Indigenous Trees

The study which was conducted in Leyte and Bohol from October 2001-January 2002 by ICRAF-AECI and DOF in collaboration with the Central Visayas State



Rainforestation Farming sites showcasing the use of native trees and fruit trees for forest restoration.

College of Agriculture, Forestry and Technology (CVSCAFT) revealed that farmers are very interested to grow indigenous trees because of their quality products such as wood and fruits which have high market value. However, they commonly lack access to quality germplasm and technical information on how to grow these species.

Development and Stabilization of Purple Pigment In Yam Powder

The project successfully developed the technique to stabilize the purple pigment in yam, processing technology for producing ubi powder with minimal pigment loss, and commercial processing of novel products such as nutri cool, yam spread, ubi beverage, ubi pastilles, yam preserve, and baked products from yam. It also determined the production cost of some yam products and transferred some food processing technologies to the different cooperators of Davao, Antique, and Bohol.

UPDATES OF ON-GOING R & D PROJECTS

Targeting Technology Intervention for Food Security in the Philippines: A GIS Application for Agricultural Research Prioritization

The project came up with a number of basic maps showing the distribution and area of cultivation of the following crops: abaca, banana, cassava, coconut, gabi, jackfruit, rice, and sweet potato. Region VII agroclimatic map and Region VIII soil, geologic, and slope maps were also produced. Moreover, a land suitability map for abaca and coconut in Region VIII was produced and secondary data from different government agencies in the region were collected. The project likewise produced two monographs and a policy paper on "Targeting Technology Interventions for Coconut Development in Eastern Visayas" and "Targeting Technology Interventions for Abaca Development in Leyte."

Performance Evaluation of the Hohenheimer Solar Tunnel dryer

When operated without load, the solar tunnel dryer is capable of increasing the ambient air temperature by as much as 125% during clear sunny days and up to 60% during cloudy days. Compared to sun-drying, the solar tunnel dryer reduces the drying time of sweet potato chips, cassava chips, and fish by about four hours to achieve the desired moisture content of 14% and by about 1 hour when drying abaca fibers. When drying is done during cloudy or intermittent cloudy-rainy-partly sunny days, drying time through sun-drying is twice longer than using the solar tunnel dryer.

DASVM-ACIAR

In order to improve farmers' chicken production management practices, the following were suggested: semi-confinement rearing instead of scavenging or full confinement; providing energy-giving feed supplement instead of scavenged food; confinement of chicken during southwest monsoon (*habagat*) to minimize mortality; upgrading of native chicken up to a level that still retains the desirable characteristics to increase body weight; increase egg production by bathing the hen and maintaining a lower breeding ratio of 1:6 to 1:10.

- Collection, Morphological Characteristics and Maintenance of Abaca Genebank

Sixty-six (66) abaca accessions were added to the genebank collection and 13 missing accessions were again gathered from the areas they were previously collected. A total of 53 abaca accessions were characterized based on vegetative features, 26 based on their inflorescence, and 17 accessions based on fruit seed parameters. Two batches of abaca accessions (with 24 accessions each) were sent to INIBAP, UPLB for isozyme analyses; 21 promising accessions and 6 varieties — for DNA finger printing; 13 accessions and 8 varieties — for cytological studies; 196 accessions — for *in vitro* duplication; and 30 accessions - for Fusarium wilt screening. Moreover, 2 accessions and 78 rolled leaf of abaca accessions were sent to IPM, Los Baños for finger printing. Spread of abaca diseases was prevented in the germplasm by removing or roguing infected plants as well as weekly monitoring to minimize or control occurrence of diseases.

- Screening of Abaca Varieties/Accessions for Acid Tolerance

Twenty potential acid-tolerant varieties/hybrids/accessions were identified based on horticultural parameters from the previous pre-screening set-up and six from the 5th prescreening set-up. Significant reduction in growth of abaca planted in acid soil was obtained while some susceptible varieties/hybrids died 3-4 months after planting. Potential acid-tolerant abaca varieties (like hybrids *Inosa x Putian* #4 and *Putian x Laylay* # 1) performed better on acid soil than the control. In terms of dry weight, *Inosa x Putian* #4 was comparable to the control while the root and shoot dry weights of *Laylay x Putian* #1 decreased in acidic soil but the reduction was much lower than the other entries. The potential acid-tolerant abaca varieties/accessions will be evaluated under field condition.

- Mechanization of Village-Level Processing of Woven Products

Some parts of the twisting machine were modified and adjustments on the spooling tensioner were made to adopt the spool of the automatic feeding assembly used in the twining machine. An eight-tooth spur gear was fabricated manually for the twining machine to accommodate production of 3/8" diameter twine. Moreover, a manually-operated loom was fabricated with heddle and reed, treadle, and warp roll. Preliminary testing and modification of the loom were made and further evaluation was scheduled.



Abaca twining machine fabricated by NARC.

On-station Assessment of the Potential of Coconut-Based Intercropping Systems as Tool for Coconut Genetic Resources Conservation.

One-hectare of Malayan Red Dwarf used for tender nut production gave more income (P3,200-P4,000 per month) than the one-hectare Baybay Tall used for copra production (P2,000 per month).

Passion fruit (*Passiflora caerulea*) and edible fern (*Athyrium esculenta*) performed well when grown in between rows of Baybay Tall. Passion fruit can yield 98,000 fruits with about 493 gallons of juice per hectare per year. A 1/4 hectare area could accommodate 10,000 hills of edible fern which can give an estimated income of P1,000 per month.

Yield of abaca intercropped with coconut was one stalk per hill per year with an estimated income of P5,192.00 per hectare per year.

Improvement of Techniques for in Vitro Storage of Root Crop Germplasm

Three to four percent (3-4%) mannitol as culture medium additive was found to be most effective for controlling the growth of cassava nodal tissues while 7-8% for yam. Tissues can be maintained in vitro for almost two years without subculture and still capable of regenerating into normal plantlets.

Screenhouse and Field Evaluation of Microbial Antagonists Against Postharvest Fungal Diseases of Sweetpotato and Yam

Sweetpotato tubers from plant treated with 50-60 grams of *Trichoderma* F17C at 2 and 3 months after planting had lower tuber infection caused by *B. theobromae* during harvest until two months of storage. Similarly, the same antagonist prevented yam tuber infection by *B. theobromae*.

Control of Cassava Bacterial Blight (*Zanthomonas campestris* pv *manihotis*) Using Microbial Antagonists Under Field Condition

Application of bacterial isolates BI 27 (1.4×10^8 cells/ml), BI 43 (1.3×10^8 cells/ml) and *Pseudomonas fluorescense* (1.4×10^8 cells/ml) 24 hours before the inoculation of the bacterial pathogen to the 5-month old cassava test plants reduced the severity rating of bacterial blight disease on cassava. It was observed that *P. fluorescense* performed better than the other two isolates.

Yam demo farm at the
LSU Main Campus.





(Left) Micro flourmill for milling dried root crop chips; (Right) Grater chipper for root crops fabricated by the PhilRootcrops.

- Development of a Micro-Flour and Micro-Grates Processing System for Rootcrops

The micro-flour system consists of three integral processing machines, namely, the improved Chipping Machine, Chips Dryer, and a Flourmill. The whole set-up can process a maximum of one ton fresh roots a day and produce about 25% refined flour from fresh cassava tubers.

The micro-grates system is also composed of three integral processing machines — the improved Grating Machine, Grates Dryer, and Gratesmill. It can process up to two tons of fresh roots per day into dried cassava grates with a yield of about 23%.

- Production of Sweetpotato Candies

Sweetpotato candies processed using slow plumping technique were more acceptable in terms of texture and flavor than those produced through fast plumping method. Moreover, candies produced with the use of white sugar were more acceptable in terms of color and appearance than those with brown sugar.

- Postharvest Handling and Storage of Minimally Processed Rootcrop Products

Sweetpotato varieties PBS Sp-17 and PBS SP-22 were found to be acceptable for fried strips served as side dish and snack food. These ready-to-fry strips packed in polypropylene bags can either be stored at ambient temperature (3 days), refrigerated (15 days) or frozen (more than 2 months). Likewise, cassava strips from Golden Yellow and *Lakan* varieties were also acceptable for fried strips due to their yellow flesh color with the same shelf-life and packing materials as in sweetpotato. These fried rootcrop strips can partly replace the potato fries served in fastfood and institutional markets.

- Antagonistic Plants for the Management of *Melodogyne graminicola* in Rice-Onion System

Species of *Crotalaria* and *Tagetes sp.* together with clean fallowing of soil reduced nematode gall formation and nematode density which consequently increased weight of onion. Thirteen (13) out of 27 plant species showed nematicidal activity against *M. graminicola*. Extracts from Neem, papaya, *Euphorbia*, and *Kuyot* showed to be most effective against *M. graminicola* and significantly reduced gall formation and population density of the nematode especially their power form.

R&D BUDGET RELEASED, FY 2001

Funding Agency	Amount (P)
Local	
BAR	22,577,719.96
DA	4,939,859.04
PCARRD	914,866.75
IRRI	722,590.50
DOE	426,000.00
CHED	353,891.86
PHILRICE	209,756.00
BAR/AFRDE	90,000.00
NFA	69,092.50
BAR-UPLB	38,076.91
Other Agencies	828,300.00
SUB-TOTAL	31,170,153.52
Foreign	
ACIAR	2,960,638.54
IFS	560,682.51
JME	559,980.71
GTZ, EURONATURE	490,176.10
TECHNOVA	268,356.80
ICRAF	263,168.02
UPWARD	189,600.00
SUB-TOTAL	5,292,602.68
TOTAL	36,462,756.20

Enhancing the adoption of agricultural development technologies.

Women trained in food processing by the Food Technology Section of DAC-FS.

EXTENSION

Mission

Application of appropriate knowledge and technologies to improve and sustain productivity and growth of agriculture, fisheries, forestry and agro-industries.

LSU's extension activities focused on strengthening the capability of the local government units, people's organizations, and non-government agencies/organizations in delivering extension services; packaging and disseminating its technologies and information to the target clientele; and inculcating among the clientele values relevant to sustainable development and social equity; and monitoring/evaluating its extension projects.

During the year, the University expanded its extension services to Samar and Biliran provinces. It implemented 18 extension projects and performed various tasks for the promotion and effective adoption of technologies by the rural clientele.

EXTENSION ACTIVITIES

DISSEMINATION OF TECHNOLOGIES

- The LSU Radio DYAC helped disseminate technologies and train rural folks and out-of-school youths through the School-on-the-Air programs on Upgrading the Native Chicken, Goat Raising, and AEFEP Radio School which were conducted in coordination with DASVM, CSR, FARMI, local government units, Children and Youth Foundation of the Philippines, and Office of the Provincial Agriculturist.
- The number of copies of technoguides, brochures, and handouts distributed to farmers, technicians, students, and visitors were 1,355 from DOH on ornamental/ vegetable/cutflower/fruit production and composting; 372 from NCRC-V on *macapuno*/coconut production and coconut-based cropping system; and 960 from NARC on abaca and handicraft technologies.
- Two issues of the *Extension Digest* were published and circulated in Region 8 to DA, LGUs, NGOs, POs, and the academe.
- The Manual on Embryo Culture and the *Macapuno* Brochure were published by NCRC-Visayas while 4 issues of the R&D Datafiles were published by CSR.

DISTRIBUTION OF PLANTING MATERIALS

- Planting materials were produced and distributed at minimal cost by the DOH - 48.22 kg of vegetable, watermelon, muskmelon, cucumber and sweet corn seeds, 13,714 grafted/macrotted plants and 108 seedlings of fruit trees; NCRC-V - 1,638 coconut seedlings, 13,414 banana suckers, 200 pineapple suckers, and 400 marcotted *lemonsito*; NARC - 232 tissue-cultured plantlets; DPBAB - 8,240 kg rice and 1,392 kg corn seeds; and DASS 590 kg rice, 1,325 kg corn, and 168 kg legume seeds.
- LSU-Alangalang Campus provided the LGU of Alangalang, Leyte with 8,000 marcotted seedlings for distribution to farmers.

FABRICATION OF PROCESSING MACHINES

NARC fabricated 28 portable abaca stripping machines distributed to farmers cooperatives, and schools in Region 6 - 1, Region 7 - 1, Region 8 - 26 (Southern



Distribution of tissue-cultured plantlets by the Department of Horticulture.

Leyte - 22); and PhilRootcrops manufactured and delivered a flour grinder, motorized chipper, washer/peeler, chipping machine, and cassava grater with coco grater.

TECHNOLOGY DEMONSTRATION FARMS

The DOH identified 11 fruit tree demonstration farms in Albueria, Bato, Baybay, Isabel, Matalom, Merida, Ormoc City, Palompon, and Villaba in Leyte; and Maasin City in Southern Leyte.

TECHNICAL ASSISTANCE

The following units of the University provided extension services to the different clientele:

- DAEA trained farmer-cooperatives on farm record keeping and accounting, and preparation of business plans and budgets.
- DASVM assisted the Camotes Island Multipurpose Cooperative in Tudela, Cebu on feedmill operation, feed formulation, and feed ingredients purchase.
- DPBAB assisted 200 rice and corn farmers of Samar and Leyte, and students from the ASEAN Regional Center for Biodiversity Conservation at Los Baños, University of the Philippines-Tacloban City and University of San Carlos in Cebu City in improving their herbarium facilities for plant identification, and coordinated with DA on rice extension projects.
- DPP diagnosed plant pests and diseases in response to clientele requests, and accommodated 7,142 visitors to its Natural History Museum.
- DOF gave technical support to World Bank's Community-Based Resource Management Project in Inopacan, Leyte.
- ITE assisted four provinces in the protection, conservation, and sustainable management of Camotes Sea.
- DAEAM assisted the Department of Energy, NGO, and LGU on the O'llaw Project.
- CSR prepared a training design for the re-tooling of agricultural technologists in the Provincial and City Agriculturist Association - Eastern Visayas Chapter.



(From top to bottom)
Trainings on cassava
processing, dairy
products processing and
flower arranging.

- FARMi collaborated with ICRAF-AECI and LGUs of Matalom, Hindang, Inopacan, and Baybay, Leyte in conducting Participatory Technology Development and technology promotion of farmer organizations.
- PhilRootcrops trained individual farmers and farmer organizations in *ubi* production.
- NARC trained various clientele from different regions on abaca production.

TRAININGS

The number of trainings, briefings, and lectures conducted by the different departments/centers were: 39- DOH, 16-DAC-FS, 12-NCRC-V, 9-FARMi, 5-ITE, 4-IMDC, 2-DASS, 2-DOF, and 1- DPBAB.

COLLABORATIONS

The Center for Social Research was accredited by the Civil Service Commission as a training institution for social sciences in Region 8 effective March 19 and was designated as the Secretariat of the Technical Working Group of the Camotes Sea Initiative.

LSU entered into memorandum of agreement with the Technical Education and Skills Development Authority (TESDA); Provincial Government of Leyte; Departments of Trade and Industry (DTI), Labor and Employment (DOLE), Science and Technology (DOST), and Environment and Natural Resources (DENR); Provincial Offices of Agriculture, Agrarian Reform, and Social Welfare; Philippine Coconut Authority (PCA); National Electrification Administration; and Fiber Development Authority (FIDA)—for the convergence on skills development and upgrading program for the target beneficiaries in Leyte.

UPDATES OF EXTENSION PROJECTS

• *O' Ilaw Project*

Barangays New Katipunan and Kadaruhan, of Malitbog, So. Leyte were the beneficiaries of the project. In each barangay, four channels of solar-battery charging stations and 35 sets of balance system were installed benefiting 35 households or 70 households for the two barangays.

In Barangay Mag-aso, Baybay, Leyte, a one-channel solar-battery charging station was installed initially benefiting five households. The Barangay Council however, facilitated charging of the battery instead of bringing it to the town of Baybay thus, increasing the number of households benefited to 15.

- Participatory Technology Development for Vetiver Grass Technology and ViSCA Generated Upland Technologies

The project sites of Matalom, Hindang, Inopacan, and Baybay, in Leyte organized one farmer-group or *alayan* per site. The Matalom project grew 2,650 hills of pineapple, 500 vegetables, 2,000 mango, 100 lanzones, 200 jackfruit, 13 Chinese orange, and 20 rambutan fruit trees; established



Vetiver hedgerows in improved crop-fallow system (Matalom, Leyte).

450 meters of new contours; and harvested 100 *Gmelina* trees. The Hindang project planted pineapple in the contours; bagged 790 mango seedlings and wildlings; started planting mahogany trees; produced 2,000 mango seeds; availed of a training on mango grafting; and facilitated the attendance of four farmers to the Rainforestaiton Farming Workshop. The Inopacan project established 7 tree nurseries; 11 NVS and Tahuri system; bagged 2,000 Eucalyptus seedlings; grafted 50 mango seedlings; germinated 5,000 Eucalyptus seeds; organized one *alayon* group; produced 1,000 mango seedlings; and attended a training on Rainforestation Farming. The Baybay project established a nursery for mango seedlings; constructed a nursery shed house; and sowed Eucalyptus seeds. Five (5) farmer-members adopted NVS, 11 maintained vetiver hedgerows; 7 established/maintained ipil-ipil feedlots; and 4 planted rice bean or *tahuri*.

- Gender and Development Program

CSR conducted two Gender Sensitivity Trainings for LSU college freshmen, co-sponsored with WELFARE-Baybay the Paralegal Training on Violence Against Women and Sexual Harassment and Forum on Domestic Violence among Bantay Banay volunteers and LGU workers in Baybay, Hindang, and Hilongos in Leyte.

- Integrated Extension Program

During the extension review, PhilRootcrops presented the results of its assessment on the Bontoc Credit Cooperative, Inc.; and conducted quarterly inter-agency meetings with the Land Bank of the Philippines-R7, Camotes Island Multipurpose Cooperative (CIMPC), DOST-R7, LGU of Tudela in Camotes, and DA.

The CIMPC Feedmill expanded its warehouse for feed ingredients, purchased a 20-KVA stand-by generator, constructed a 30-sow level fattening pen to demonstrate the viability of raising hogs using cassava-based feeds, and recommended the construction of a wastewater treatment lagoon and a dust-arrester/cyclone separator. Results of the feasibility study indicated that using feed premix minus the cassava and corn meal is technically possible and economically viable provided the supplier of the premix will provide the CP, available P, crude fiber, and crude protein for computations.

TRAININGS CONDUCTED/SERVICES RENDERED BY DEPARTMENTS/CENTERS, CY 2001.

Department/ Center	Title of Training	Type of Clientele	Number
FARMI	School-on-the-air goat production/marketing native chicken corn/mango/goat production, forage pasture, community-based monitoring/evaluation, basic accounting	LGU Officials, coop members, farmers	990
ITE	Rainforestation farming, marine resource assessment/monitoring RELA orientation/team building, drafting constitution/by-laws	Women, farmers, fisherfolks, students	115
NCRC-Visayas	Tissue culture, writing technical paper, black pepper production, GIS application	Staff, farmers, students, SB Members, teachers	130
IMDC	Video footage, video documentation and artworks	Farmers, faculty/staff	45
CSR	Flower/foilage arrangement, food processing, duck/quail/kaber/cutflower/ornamental plants production, sexual harrasment, domestic violence, R8/Leyte abaca expansion/rehabilitation, Camotes Sea protection/conservation/sustainable management, NFE facilitators'/Learners' orientation program	Women, farmers, NGO/GA/LGU reps, OSY, students/staff Tokyo C Environment/Japan	730
PhilRootcrops	Tissue culture, ubi/sweetpotato/rootcrop production, soil testing, feed formulation, ubi processing, trainors' training Sweetpotato Farmers' Field School, integrated crop management	Farmers, housewives, LGU technicians, coop members researchers	220
DAC-FS	RTE processing/packaging, food/meat/ginger/tomato/fruit vegetable/rootcrop processing, tart/polvoron making, nata production	Farmers, cooperators, coop members, students, LGU officials, OSY	990
DOF	Nursery establishment, small-holder forestry	Farmers, students	198
DHS/BIDANI	Bamboo/coconut crafts, BIDA, INSUMIX, domiciliary Nutrition rehabilitaiton	Rural women, BHW, midwives/nurses	131
DOH	Cutflower/ornamental/vegetable production, vegetable seed processing/storing	Rural women, farmers, students, Teachers	1,100
DDC	Broadcasting, campus journalism, summer arts, technical paper writing, basic stage design and lighting	Health officers, farmers, faculty/students	482
DASS	3 rd aerial photo interpretation, soil science	Technician, students	6
DASVM	Duck/quail/kaber/layer/egg production, school-on-the-air-goat farming/improving native chicken	Farmers, students, OSY, extensionists	781
DPBAB	Rice/corn production; plant identification/classification	Farmers, students	250
DYAC	Broadcasting, radio program production/presentation	Pupils, PIOs	49

Encouraging and acknowledging staff achievements and outstanding accomplishments.



LSU scientists - Dr. Celsa A. Quimio, Dr. Lina T. Villacarlos, and Engr. Feliciano G. Sinon, take a pose with Dr. Eliseo R. Ponce (left), Bureau of Agricultural Research Director, after receiving their awards from DA-BAR.

AWARDS EARNED BY FACULTY AND STAFF

Name of Award	Recipient	Date/Agency
<u>INTERNATIONAL LEVEL</u>		
Medal for Agricultural Development	Dr. Monina M. Escalada	Vietnam Ministry of Agriculture
George Atkins Communications Award	Ms. Adelina O. Carreno	DCFRN, Toronto, Canada
<u>NATIONAL LEVEL</u>		
Outstanding Professional in Animal Science Extension Award	Dr. Oscar B. Posas	Nestle Phils.
Best Paper Award 3 rd Prize	Dr. Lina T. Villacarlos Ms. Belen Mejia	PCARRD
DA Secretary's Award	Dr. Celsa A. Quimio	DA-BAR
BAR Director's Award	Dr. Lina T. Villacarlos	DA-BAR
AFMA Best R&D Paper Award (Unpublished Category)	Engr. Feliciano G. Sinon	DA-BAR
AFMA R&D Paper Award (Unpublished Category)	Dr. Lina T. Villacarlos	DA-BAR
Professorial Chair	Dr. Lina T. Villacarlos Dr. Jose R. Pardales Jr.	PARRFI
<u>REGIONAL LEVEL</u>		
Outstanding Basic Research (Silver Category)	Dr. Lina T. Villacarlos Ms. Belen Mejia	VICARP
Outstanding Basic Research (Bronze Category)	Dr. Anabella B. Tulin Mr. Rommel B. Armecin	VICARP
Outstanding Applied Research (Silver Category)	Engr. Feliciano G. Sinon Engr. Albert Martinez	VICARP
Outstanding Applied Research (Bronze Category)	Dr. Alberto A. Taveros Dr. Sulpecio C. Bantugan Mr. Simon G. More	VICARP



Dr. Jose R. Pardales, Jr. receives commendation as PARRFI Professorial Chair awardee.

Name of Award	Recipient	Date/Agency
Outstanding Applied Research (Bronze Category)	Dr. Victor B. Asio Dr. Buenaventura B. Dargantes Dr. Pastor P. Garcia Dr. Belita A. Vega Mr. John Kenneth G. Israel Mr. Dale P. Loreto	VICARP
Best Poster (First Prize)	Dr. Antonio L. Acedo, Jr. Ms. Marilou Benitez	VICARP
Best Poster (Second Prize)	Dr. Lelita R. Gonzal Mr. Geofrey Pono	VICARP
Best Poster (Third Prize)	Ms. Elsie E. Salamat Ms. Lucia M. Borines Mr. Rammel B. Cardines	VICARP
Regional Pantas Award (Outstanding Research Administrator in Region 8)	Dr. Paciencia P. Milan	VICARP
Regional Pantas Award (Outstanding Researcher)	Dr. Jose R. Pardales, Jr.	VICARP
<u>INSTITUTIONAL LEVEL</u>		
VFA-Metrobank Achievement Award	Dr. Paciencia P. Milan	LSU
Exemplary Performance in Research Award	Dr. Ruben M. Gapasin	LSU
Exemplary Performance in Extension Award	Dr. Oscar B. Posas	LSU

Name of Award	Recipient	Date/Agency
Exemplary Non-Academic Performance Award (Research Support Staff)	Prof. Rosa Ophelia D. Velarde	LSU
Exemplary Non-Academic Performance Award (Supervisory Level)	Ms. Lucena L. Poliquit Ms. Ma. Cristina U. Ramirez	LSU
Exemplary Non-Academic Performance Award (Non-Supervisory Level)	Mr. Onofre M. Betonio, Jr. Mr. Noel V. Borigon Mr. Romulo E. Morales Mr. Remegio M. Sanico Ms. Josefina M. Larrosa Ms. Socorro B. Teodosio Ms. Luzvisminda A. Ternura Ms. Marilyn A. Orquilla	LSU
Outstanding Teacher Award	Mr. Rodrigo G. Caduhay	LGU, Alangalang

Providing essential services for the well-being of its constituents.

LSU students performing physical conditioning exercises at the Department of Physical Education.

AUXILIARY SERVICES

The Auxiliary Services Units actively performed their respective roles in support of the LSU Administration's drive to provide the essential services for the development and well-being of the students and staff.

The **Office of Student Affairs (OSA)** administered psychological tests to 521 students and other clients for purposes of counseling, vocational guidance, employment, determining student's eligibility for admission/readmission, and screening of incoming peer movers. In line with its task of supervising student activities, it accredited 59 student organizations and 108 organization advisers, and granted 588 student activity permits. It managed 20 dormitories and cottages of the University and supervised the accommodation of 1,638 students. It regulated the use and operation of the Student Lounge (which served 2,800 students in guitar playing, chess and dart games) and the Recreation Center (which spent 8,902 service hours in students' billiard, table tennis, and bowling games). OSA likewise sponsored the 22nd Honors and Awards Convocation and presented awards to 200 honor and exemplary students, six student organizations, and two scholarship sponsors (Gov. Rafael Cosculluela through the Pagkaon 2000 Program of Negros Occidental; and Congresswoman Maria Catalina Loreto-Go through the CHED Special Study Grant for the Fifth Congressional District of Leyte).

Dynamic in its role as the repository of knowledge and information, the **LSU Library** acquired 1,770 additional volumes of books and other valuable reading materials and 34 VHS on entrepreneurship. It received 137 books donated by the Rotary Club of Makati and SEANAFE. It improved its mechanism of operation and extended its service time until Saturdays. In celebration of the National Book Week on November 24-30, the Library organized contests and other educational activities for the students and staff, displayed recent book acquisitions and computer software, showed films, and demonstrated the uses and operations of the CATALO database, The Essential Electronic Agricultural Library (TEEAL), and internet surfing. The **Library of the LSU-Isabel Campus** also received 385 volumes of books donated by the California Energy in Tongonan, Kananga, Leyte; and acquired 100 volumes of books with different titles.

The **Infirmery** served the University constituents through its health services and by conducting relevant seminars and information drives. It served various number of patients in its different services: consultation- 4,064; physical examination- 4,991; immunization- 219; dental services- 2,282; and laboratory examination- 1,093.

Pursuing initiatives for its overall growth and improvement.



WASHINGTON, D.C. - MAY 15, 2014



Senator John Henry R. Osmeña (inset), keynote speaker during VISCA's 77th Anniversary, gives insights for VISCA's further growth and development.

SIGNIFICANT EVENTS

Senator John Henry R. Osmeha, Chairman of the Senate Committee on Finance who served as keynote speaker during the 77th ViSCA Anniversary Convocation on July 31, encouraged ViSCA to be globally competitive by enriching its agriculture education programs and integrating information technology, biotechnology, and environmental sciences in its curricula.

Senator René L. Cayetano, Chairman of the Senate Committee on education and member of the LSU Board of Regents, was given a briefing and overview of the University's programs and priorities when he visited LSU on November 15.

Congresswoman Carmen L. Cari of the 5th District of Leyte was represented by Ms. Loreta Malabanan as guest speaker during the ViSCA Flower and Garden Show opening program on July 28. In her message, Cong. Cari lauded the ornamental plant growers, organizers, and benefactors of the activity for pushing the development of the local ornamental industry and enhancing the district's potential to become the "flower bed" in the region.

Agriculture Secretary Leonardo Q. Montemayor, commencement speaker during the ViSCA's 48th Collegiate Commencement Exercises on April 7, emphasized the vital role of agricultural state colleges and universities in accelerating the country's agricultural modernization.

DOST Secretary Estrella F. Alabastro, keynote speaker during the Regional Applied Communication Officers National Convention held on April 25-27 at ViSCA, emphasized the importance of advanced information and communication technology for the attainment of agricultural modernization.

DOST Undersecretary Fortunato T. de la Peña had a productive and substantial discussion with the ViSCA President, center directors, and department heads on research thrusts and advancement during a brief visit to ViSCA on July 11.

Dr. Gelia T. Castillo, internationally renowned sociologist and author of various social science books, served as keynote speaker during the opening program of the "Training of Trainers on Farmer Field School (FFS) for Sweetpotato Integrated Crop Management" held on October 17-27. She pointed out the need for FFS trainers to have adequate knowledge of and exposure to the livelihood system of sweetpotato farmers to be effective in motivating them to practice new farm methodologies and acquire technical knowledge and skills to manage productive enterprises.

Dr. Eliseo R. Ponce, Director of the Bureau of Agricultural Research, shared some insights to enhance the University's quality of research during a consultation meeting with LSU researchers on September 17.

Mr. Victor A. Domingo, Presidential Assistant for Eastern Visayas, was the guest speaker during the Farmers' Field Day celebration on July 29. He encouraged extensive dissemination of ViSCA technologies to help the rural poor.

Mr. Bernardo H. Tocmo, 1982 BSAB alumnus and Senior Vice-President of the Security Bank and Trust Co. in Manila, was guest speaker during the 22nd Honors and Awards Convocation on February 27. He shared with the ViSCA students that success is attained through hard work, honesty, good human relations, humility, patience, and prayer.



Ms. D. Marjo Moeyes-Smit, Consultant trains NARC staff on abaca dyeing.

Ms. D. Marjo Moeyes-Smit of the Netherlands Management Cooperation Programme and consultant on abaca fiber weaving and dyeing, suggested more skills training of the technical staff and the conduct of development studies on weaving and dyeing of *sinamay* cloth.

Mr. Scott Lee Clark, a US peace corps volunteer, started his two-year stint at ViSCA to undertake coastal resource management and conduct mariculture research in Baybay, Leyte.

Ms. Vicenta A. Congzon of Sabang-bao, Ormoc City was awarded as Outstanding Farmer-Entrepreneur during the Farmers' Field Day celebration on July 29 and received a plaque of recognition and P10,000 cash prize from Leyte Gov. Remedios L. Petilla. The 1st runner-up was Mr. Noel Morales of Cabintan, Ormoc City, and 2nd runner-up was Mr. Ponciano Majestrado of Hindang, Leyte. Both received plaques of recognition and cash prizes of P5,000 and P3,000, respectively also courtesy of Gov. Petilla.

ViSCA accorded awards to the following agencies/individuals during its 77th Anniversary Convocation Program on July 31:

- **Department of Agriculture-Bureau of Agricultural Research (DA-BAR)** — *Sandigan* Award, "in recognition of its invaluable financial support to the College for institutional developments, for the acquisition of new vehicles and upgrading of facilities and equipment, for research grants on rootcrops, abaca, and other commodities, and for mainstreaming ViSCA's Information Technology and Geographic Information System; for elevating the College as one of the four national universities for agriculture as coordinator of DA-RIARCS in Regions 7, 8, and CARAGA; for catalyzing the formulation of the national RDE agenda for rootcrops and abaca which are ViSCA's national commodity assignments; and for designating the College as the lead agency in the National Rootcrops Network and National Abaca Task Force."
- **Senator Teresa Aquino-Oreta** - *Sandigan* Award, "in recognition of her invaluable effort as the principal sponsor of the bill for the conversion of ViSCA into a state university. As the chairman of the Committee on Education of the Senate of the Philippines, she strongly endorsed and intelligently defended the same during Senate deliberations resulting in its final approval."

- **Congresswoman Ma. Catalina Loreto-Go** of the Leyte 5th District — *Sandigan Award*, “in recognition of her invaluable efforts as the principal sponsor of the bill for the conversion of ViSCA into a state university at the House of Representatives.”
- **Congressman Jurdin Jesus M. Romualdo** of Camiguin and Vice-Chair of the Committee on Higher and Technical Education — *Sandigan Award*, “in recognition of his unwavering efforts in assisting the principal sponsor of the bill for the conversion of ViSCA into a state university at the House of Representatives.”
- **Mr. and Mrs. Dominador I. Mazo** - *Parents-of-the Year Award*, “for their confidence and trust in the academic programs of ViSCA such that they sent all their children to study in this College.”
- **Dr. Oscar L. Colis, Dr. Jimmy R. Rosillo, Prof. Lucila P. Ligason, Ms. Adelaida M. Abit, and Mr. Cesar B. Nuñez** — *Mt. Pangasugan Award*, “for their faithful and dedicated service to the College.”

Dr. Patricio S. Faylon, Executive Director of the Philippine Council for Agriculture, Forestry and Natural Resources Research and Development, tendered a dinner to 50 poor but deserving students of ViSCA at the Pavilion on July 30.

Misses Honey Josinee J. Patigdas and Jamie Ann B. Benko were crowned as Miss ViSCA 2001 and Young Miss ViSCA 2001, respectively, on July 28 together with **Ms. Ma. Antonette R. Borneo**, 2nd runner-up; **Miss Charlotte S. Dakay**, 3rd runner-up; and **Miss Eva Lorraine D. Chua**, 4th runner-up.

The ViSCA Personnel Association sponsored a 3-day sportsfest among the ViSCA faculty and staff on July 26-28. The winning teams were the Blue Marlins- champion, Stingray- 1st runner-up, Emperors- 2nd runner-up, and Blue Sharks- 3rd runner-up.

The winners of the different booth contest categories during the 77th ViSCA Anniversary were the following:

Department /Center/Office Category

- National Abaca Research Center - *Booth of the Year, Most Environment-Friendly, Most Artistic*
- Philippine Root Crop Research and Training Center - *Most Symbolic Booth*

Course-Related/Regional Students' Organization Category

- ViSCA Laboratory High School - Student Body Organization - *Booth of the Year, Most Symbolic, Most Environment-Friendly, Most Artistic*

Religious/Greek-lettered/Civic Organizations Category

- Lakas Angkan Ministries, Inc. - *Booth of the Year, Most Symbolic, Most Artistic*
- Catholic Youth United for Truth - *Most Environment Friendly*

Outside Agencies Category

- Philippine Coconut Authority - *Booth of the Year, Most Symbolic, Most Environment-Friendly, Most Artistic*



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Visca, Baybay, Leyte

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ON CAMPUS PROGRAM

- DOCTOR OF PHILOSOPHY (Ph.D.)
Majors in: Agricultural Education
Animal Science
Entomology
Horticulture
Plant Pathology
- MASTER OF SCIENCE (M.S.)
Majors in: Agricultural Economics
Agricultural Education
Agricultural Engineering
Agricultural Extension
Agronomy
Animal Science
Botany
Dev't Communication
Entomology
Food Science & Tech.
Forestry
Home Economics
Horticulture
Language Teaching
Plant Pathology
Plant Protection
Soil Science
Weed Science
- MASTER OF AGRICULTURAL DEVELOPMENT (M.Ag.Dev.)
Non Thesis, majors in:
Agricultural Economics
Agricultural Education
Agricultural Extension
Agricultural Tech. Educ.
Agronomy
Animal Production
Dev't. Communication
Entomology
Home Economics
Language Teaching
Plant Pathology
Plant Protection
- MASTER OF EDUCATION (M.Ed.)
Majors in: Chemistry
Mathematics
Physics
Physical Education
Social Science

EXTRAMURAL PROGRAM

- MASTER OF AGRICULTURAL DEVELOPMENT (M.Ag.Dev.)
Majors in: Agricultural Education
Agricultural Extension
Agronomy
Animal Production
Language Teaching

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MAIN CAMPUS

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Majors in: Animal Health
Animal Production
- BS IN AGRIBUSINESS (BSAB)
Majors in: Business Management
Crop Enterprise Mgt.
- BS IN AGRICULTURE (BSA)
Majors in: Agricultural Botany
Agricultural Economics
Agronomy
Horticulture
Plant Breeding
Plant Protection
Soil Science
- BS IN AGRICULTURAL CHEMISTRY (BSAC)
- BS IN AGRICULTURAL DEVELOPMENT (BSAgDev)
Major in: Agricultural Extension
- BS IN AGRICULTURAL EDUCATION (BSAgEd)
Majors in: Animal Production
Crop Production
Teaching Agriculture in Elementary Schools
- BS IN AGRICULTURAL ENGINEERING (BSAE)
- BS IN BIOLOGY (BSBio)
Majors in: Ecology
Marine Biology
- BS IN DEVELOPMENT COMMUNICATION (BSDC)
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Development Journalism
- BS IN FOOD TECHNOLOGY (BSFT)
- BS IN FORESTRY (BSF)
- BS IN HOME ECONOMICS (BSHE)
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Extension Teaching
Secondary Teaching
- BS IN STATISTICS (BSS)
- BS IN CHEMISTRY (BSChem)
- BS IN COMPUTER SCIENCE (BSCS)
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Mathematics
Physical Education, Health and Music
- BACHELOR OF ELEMENTARY EDUCATION (BEEd)

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- BACHELOR OF SCIENCE IN FISHERIES (BSF)
Majors in: Marine Fisheries
Aquaculture & Fish Technology
Inland Fisheries
- BACHELOR OF SECONDARY EDUCATION (BSEd)
Major in: English

LSU-ISABEL CAMPUS

- BACHELOR OF SCIENCE IN AGRIBUSINESS (BSAB)
- BACHELOR OF SECONDARY EDUCATION (BSEd)
Majors in: Technology & Home Economics
Trade Technology
Mathematics
- BACHELOR OF ELEMENTARY EDUCATION (BEEd)

LSU-ALANGALANG CAMPUS

- BACHELOR OF SECONDARY EDUCATION (BSEd)

LSU-VILLABA CAMPUS

- BACHELOR OF SECONDARY EDUCATION (BSEd)
Majors in: English
Mathematics
General Science
- BACHELOR OF ELEMENTARY EDUCATION (BEEd)

CERTIFICATE COURSES

MAIN CAMPUS

- DIPLOMA IN PHYSICAL EDUCATION (DPED)
- HOME ECONOMICS TECHNICIAN (HET)
Majors in: Foods
Handicraft

LSU-ISABEL CAMPUS

- DIPLOMA IN TRADE TECHNICAL EDUCATION (TTE)
Majors in: Automotive Technology
Industrial Electricity
- HOME ECONOMICS TECHNICIAN (HET)
Majors in: Garments Construction
Culinary Arts



LEYTE STATE UNIVERSITY

Visca, Baybay, Leyte

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- Puts up an Alumni Directory and continuously updates it
- Takes care of alumni membership concerns
- Coordinates with LSU Alumni Association and other groups regarding alumni related initiatives and activities
- Assists in generating funds from alumni for various university-related LSU projects such as scholarship for poor but deserving students
- Facilitates alumni involvement in various university related activities

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- Establishes linkages with barangay officials in the neighboring communities of LSU

For more information please contact:

Dr. Annabella B. Tulin

Head, Alumni and Community Relations Office

Administration Building

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Tel. # (053) 335-2632/4089

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LEYTE STATE UNIVERSITY

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LEYTE STATE UNIVERSITY

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LEYTE STATE UNIVERSITY

Visca, Baybay, Leyte

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Inting Martirez
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Dodong Gofredo

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For inquiries, contact

The Manager

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LEYTE STATE UNIVERSITY

Visca, Baybay, Leyte

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MISSION : To actively contribute to the upliftment of the general well-being of its members through the provision of affordable credit and allied services in consonance with the cooperative principles and its central values of equality, equity, and mutual self-help.

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1. Fixed deposit - minimum of P2,500. As share capital of the member, the rate of interest will depend on the results of operation.
2. Savings deposit - minimum of P100 and the rate of interest is at least 1% higher than the prevailing bank rate.
3. Time deposit - minimum of P10,000 and the rate of interest is at least 1% higher than the prevailing bank rate. As of June 30, 2000, the rates were as follows:
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 - 13.5% for deposits ranging from P50,001 to P100,000
 - 15% for deposits above P100,000

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1. Emergency Loan - for a maximum of P5,000.
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3. Special Loan - for a maximum of thrice the member's fixed deposit and above P45,000 but not beyond P200,000 (*maybe granted with an appropriate collateral*).

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 - b. VIFARD Motorcycle Plan
 - c. Allied AM
 - d. Allied VB
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 - f. Insular Life
 - g. Allied RR
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 - i. Allied AL
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ViSCA's Partner in Rural Research and Development



PHILIPPINE CARABAO CENTER

LEYTE STATE UNIVERSITY

Visca, Baybay, Leyte

- Created through RA# 7307 signed on March 27, 1992 and operationalized on April 1, 1993.
- Mandated to conserve, propagate and promote the carabao as a source of draft animal power, meat, milk and hide to benefit the rural farmers.
- Implementing the Carabao Development Program as a continuous and organized effort to increase the genetic potential of the native carabao for meat, milk, and draft that would result to the development of buffalo-based and related enterprises aimed at increasing income and nutritional status of the farming communities.

SERVICES

A. Carabao Upgrading Program

1. Artificial Insemination

Infusing superior germplasm by artificial insemination to improve the potential of Philippine carabaos to produce more milk and meat.

2. Bull Loan

- Improving milk and meat production of Philippine carabaos by lending of Murrah bulls to farmer groups/associations who cannot avail directly of AI services.

B. Training and Seminar

- Upgrading of knowledge and skills of farmers and agricultural technicians on production and post-production concerns of carabao/buffalo.

C. Technical Assistance

- Provision of support mechanism in the application of technologies at the farmer level.

D. Carabao-based Enterprise Development

1. Three-cow module

- Intended to assist individual farming households/families engaged in buffalo dairying.

2. 25-cow module

- Intended to assist cooperatives engaged in buffalo-based dairy enterprises.

E. Production of Quality Breeding Animals/Germplasm

- Ensuring availability of genetically-superior breeding animals through an organized and rigorous selection and propagation of elite herd to support the carabao upgrading program.

For more information, please contact:

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LSU Campus, Visca, Baybay, Leyte, Philippines

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E-mail: ati_ntc_lsu@philwebinc.com

- VISION** : Emergence of organized, dynamic, self-reliant and globally competitive farmer and fishers entrepreneurs.
- MISSION** : To serve as full fledged academe for agricultural development managers, extensionists, farmers, fisherfolks, rural entrepreneurs, woman and youth to catalyze agriculture and fisheries modernization in the next millennium.
- PROGRAMS** : All agriculture and fisheries program are consistent with and supportive of the goals of AFMA as follows:
- Food Security
 - Poverty Alleviation and Social Equity
 - Income Enhancement and Profitability
 - Global Competitiveness
 - Sustainability
- SERVICES** : As the overall manager for agriculture and fisheries extension and training. ATI-NTC@LSU extends services on:
- TRAINING
 - FARM AND ADVISORY
 - DEMONSTRATION
 - INFORMATION/COMMUNICATION

For more details write or contact:

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