HIS EXCELLENCY BENIGNO SIMEON C. AQUINO III
President
Republic of the Philippines
Malacañang, Manila

Thru: HON. PATRICIA B. LICUANAN
Chair, Commission on Higher Education
HEDC Bldg., C.P. Garcia Ave.
UP Diliman, Quezon City

Sir:

I have the honor to submit to your office the Annual Report of Central Mindanao University for Calendar Year 2012.

As an institution of higher learning, CMU shall continue to vigorously pursue its mandate, vision and mission and to consistently carry out its four–fold functions, namely: instruction, research, extension and production.

All these endeavors are geared in support of your Administration’s goals, especially on poverty alleviation.

Thank you very much.

Very truly yours,

MARIA LUISA R. SOLIVEN, Ph.D.
President

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DR. MARIA LUISA R. SOLIVEN
University President
About the Cover

The cover exemplifies CMU making bolder steps towards achieving its vision of becoming a leading ASEAN university for sustainable development. Guided with its mission, goals and objectives, CMU walks towards the feat of its journey with integrity and transparency.

BACK COVER:
CMU Centennial Landmark

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Mandate

Section 2 of Republic Act No. 4498 mandates that Central Mindanao University “shall provide programs of instruction at all levels in the arts, sciences, technical, professional, educational, and philosophical fields, and shall concern itself with "pure" and "applied" research in all branches of knowledge for the intellectual and professional growth of faculty members, for the advance instruction of students, and for increasing knowledge and understanding."
**Vision**

An academic paradise of higher learning actively committed to the total development of people for a globally sustainable environment and a humane society.

**Mission**

To advance the frontiers of knowledge for economic prosperity, moral integrity, social and cultural sensitivity, and environmental consciousness through equitable access to quality instruction, research, extension and production.
Dr. PATRICIA B. LICUANAN  
CHED Chairperson and Presiding Chair  
CMU Board of Regents

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Vice Chair and University President  
Central Mindanao University  
University Town, Musuan, Bukidnon

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Central Mindanao University  
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Administrative Council

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VP for UIGP
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Engineering

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Forestry
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Home Economics
Prof. Ellen Gay S. Intong
Nursing
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Veterinary Medicine
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Graduate School

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Instructional Materials & Development Center (IMDC)
Dr. Perfecto B. Bojo
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Linkages and Technology Licensing Office

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Chief, Supply & property Mgt. Office
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Chief, Psychological Testing & Guidance Center
Dr. Marciana R. Zaman
Chief, University Center for Gender and Dev’t.
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Ms. Sheila Mae L. Poliran
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Head, University Archive
Dr. Victor B. Amoroso
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Head, Auxiliary Services Unit
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Head, University Cashier
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Head, Campus Landscaping, Beautification & Dev’t Project
Engr. Nicasio L. Pamisa
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Engr. Bernie C. Actub
Head, Electrical Unit
Diverse experiences and accomplishments shaped CMU in becoming and sustaining an institution of higher learning. This year, another milestone has gripped CMU to spread its wings wider and to reach higher grounds through its four-fold functions. Accomplishments would not have been without the frontliners who crossed the threshold, hurdled over obstacles and pursued standards of excellence just to bring CMU to the ceiling of honor and pride.

The Instruction, a hallmark of producing competent professionals, has been providing quality education to the students. This year, CMU ranked 1st and 9th in the Licensure Examination for Agriculturists and obtained a 100 percent passing rate for Electrical and Mechanical Engineers. The Colleges of Agriculture, Forestry and Veterinary Medicine remained as top 2, 3 and 4, respectively, among Agriculture, Forestry and Veterinary Medicine Schools nationwide. In general, the CMU’s passing percentage in all licensure examinations, is consistently higher than the national passing percentage. It has also served an average of 9,494 for the first and second semesters, 3,768 for summer of school year 2012-2013, produced 1,002 graduates and awarded 38 graduates with honors. Further, CMU has been providing various scholarships to the faculty and students. This year, CMU has chosen 32 faculty scholars and 4,363 student scholars as recipients of either institutional and non-institutional scholarships. Moreover, the university’s Graduate School Program produced 40 proficient graduates of MS and PhD programs. Moving forward, CMU has increased the number of accredited programs to 30 or 84% among the 37 academic programs both undergraduate and graduate offered in the university.

The Research, one of the pathways towards quality of life, is a strong function of the university. CMU keeps on pursuing research thrusts towards the attainment of sustainable environment and humane society. This year, the university generated and implemented 75 researches funded by CMU and other research linkages. It supported various researchers in their quest for knowledge and technology generation by sending them to 80 national or international conferences. Several researchers received various awards from the Agency In-House Review (AIHR), Regional Symposium on Research and Development Highlights (RSRDH) and other conferences nationwide and abroad. Due to its exemplary performance in research, Commission on Higher Education (CHED)
recognized CMU as the Higher Education Regional Research Center. With this, the Center for Biodiversity Research and Extension in Mindanao (CEBREM) was institutionalized in 2011 and inaugurated in 2012 with an approved budget of 5M from Department of Agriculture - Bureau of Agricultural Research (DA-BAR).

The Extension, a support arm that bridges experts to the target clienteles through technology promotion and commercialization, is continuously advancing CMU’s performance by implementing various extension activities and projects involving seven participating colleges namely colleges: Agriculture, Arts and Sciences, Education, Forestry and Environmental Science, Home Economics, Nursing and Veterinary Medicine. At present, the CMU-CHED-UNLAD Program has two techno-projects in Barangay Dologon, Maramag, Bukidnon. These are the Dologon Technology Park (Swine and Goat Production) Projects and Farmers Information and Technology Service (FITS) and the Information Education and Communication (IEC) Center. The Agrarian Reform Communities (ARC) which was established in 2011, has implemented three activities this year namely Beadwork Making, Lei and Give Aways Making and Commercial Cooking. Moreover, the University Extension Office through the Information Communication Unit (ICU), promoted CMU-generated technologies and other commodities through the conduct of information drives. It has also become a recipient of four major extension projects, namely: Rehabilitation and Conversion of DXMU Radio Station; CMU Village Level Bio-con Laboratory; Production of Information, Education and Communication Materials and Hammer Mill Operation Project.

The Production, an income-generating arm of the university, keeps on sustaining CMU’s resources through proper management. The previous BMRDO was reorganized to become the University Income Generating Project (UIGP) this year. The UIGP is composed of six divisions, namely: Plantation Crop Production Division (PCPD); Cereal Production and Processing Division (CPPD); Livestock, Poultry and Fisheries Division (LPFD); Forest Resources Development Production Division (FRDPPD); University Food and Lodging Services Division (UFLSD), and the Special Projects Division (SPD). This year, the UIGP had a gross income of PhP 47,346,420.58 and a net income of PhP 4,222,392.33.

The Administration, the mitochondrion of the university, served as an inexorable force that supported and facilitated both academic and non-academic activities and operations of the university. This year, CMU received a total allotment of PhP 318,675,240 from the National Government as provided in the General Appropriations Act (GAA) and generated an income of PhP 109,513,408.34 from fiduciary and non-fiduciary funds. Furthermore, the Human Resource Management Office (HRMO) recorded a total of 1,109 non-teaching personnel.

Serving beyond the four walls, the University President, Dr. Maria Luisa R. Soliven was entrusted and appointed by President Benigno Aquino III as a member of the Board of Trustees of the Philippines Rice Research Institute (PhilRice) to take part in the Science Community. Dr. Soliven was also identified as a member of Mindanao River Basin Rehabilitation and Development (MRBRD) technical committee.

Having the year 2012 passed with fulfilling confidence, CMU is now fastening to seatbelt to journey through 2013 with courage and determination in sustaining and improving its four-fold functions towards wider horizons.
Highlights of Major Accomplishments

Instruction
Research
Extension
Production
Administration
INSTRUCTION

“Sustainable quality instruction makes highly competent professionals.”
CMU continuously fulfils its commitment to provide quality education to the poor but intellectually-deserving students, not only in Mindanao but the whole country and the global community as well.

Part of sustaining and advancing excellence in instruction is the university’s offering of 29 undergraduate professional degree programs through its nine colleges: Agriculture, Arts and Sciences, Commerce and Accountancy, Education, Engineering, Forestry and Environmental Science, Home Economics, Nursing and Veterinary Medicine; and 41 highly specialized Graduate Programs through the Graduate School (Appendix 1). CMU has been providing its patrons the best through relevant and market-driven non-degree programs. It also offers 3 special short-term courses: Dairy Production and Management, Swine Production and Management, and Associate in Sugarcane Production and Management (ASPM) as new additional non-degree courses in 2012 and 3 TESDA competency courses: Food and Beverage NC II, Commercial Cooking NC II and Food Processing NC II.

**Enrolment Profile**

Through the years, the university’s number of enrollees has increased. In 2012, the university has served a total of 9,867 and 9,122 students for the 1st and 2nd semester of S.Y. 2012–2013, respectively and a total of 3,768 students for summer 2012 (Table 1). These students were distributed in the 9 different colleges of the university including the Graduate School. In addition, the College of Agriculture still holds the biggest student population for the undergraduate programs.

**Faculty Profile**

The faculty plays an enormous role in achieving academic laurels. This made CMU embarked on the full potential of the faculty members to hone students towards excellence. For 2012, CMU has a strong faculty force of 386

| College of Agriculture       | 1076 | 2748 | 2591 |
| College of Arts and Sciences | 281  | 1140 | 942  |
| College of Commerce and Accountancy | 303  | 877  | 796  |
| College of Education         | 392  | 889  | 891  |
| College of Engineering       | 793  | 1645 | 1537 |
| College of Forestry and Environmental Science | 205  | 532  | 359  |
| College of Home Economics    | 353  | 1220 | 1216 |
| College of Nursing           | 60   | 80   | 76   |
| College of Veterinary Medicine| 114  | 339  | 333  |
| Graduate School               | 191  | 397  | 381  |
| Total                        | 3,768| 9,867| 9,122|

**Figure 1.**

Faculty Profile Based On Degree

<table>
<thead>
<tr>
<th>Degree Type</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph.D Holder</td>
<td>40%</td>
</tr>
<tr>
<td>MS/MA</td>
<td>21%</td>
</tr>
<tr>
<td>BS/BA</td>
<td>39%</td>
</tr>
</tbody>
</table>
of which 80 or 21% are doctoral degree holders (PhD), 150 or 39% are master’s degree holders (MS/MA) and 156 or 40% are baccalaureate degree holders (BS/AB). With respect to academic ranks, 29 or 7.51% are full Professors, 96 or 24.87% are Associate Professors, 61 or 15.80% are Assistant Professors, 199 or 51.5% are Instructors and only one University Professor (Figure 2).

Faculty Development

With the zeal in advancing frontiers of knowledge and academic excellence, CMU has chosen 32 faculty scholars in 2012 from second semester SY 2011-2012 to 2nd semester SY 2012-2013. The university spent PhP 1,458,781.30 as support to the faculty scholars. They were enrolled in 16 schools in the Philippines and abroad, namely: UP Los Baños (UPLB), Central Mindanao University (CMU), Liceo de Cagayan University (LDCU), Mindanao University of Science and Technology (MUST), Delft University of Technology, Netherlands; MSU-IIT, University of San Carlos (USC), AIT- Thailand, De La Salle University (DLSU), Lourdes College, University of the Immaculate Conception (UIC), Saint Paul University of the Philippines (SPUP), Saint Paul University in Dumaguete (SPUD), Philippine Women University (PWU), Southwestern University (SU) and University of Makati (UM). This year, one faculty scholar has completed master’s degree at UPLB.

CMU has also provided the highest number of scholarships in consonance to its commitment for the faculty’s professional growth. These scholarships were from the 11 different sponsoring institutions/agencies namely CMU Full Scholars, CMU Partial/Official Time, CHED-HEDP – FDP, CHED-HEDP- II, DOST-SEI, DOST – ASTHRDP, DOST-ERDT, ERDT, Erasmus Mundus, SEARCA and AIT. From

<table>
<thead>
<tr>
<th>COLLEGE</th>
<th>SUMMA CUM LAUDE</th>
<th>MAGNA CUM LAUDE</th>
<th>CUM LAUDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Arts &amp; Sciences</td>
<td>-</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>College of Agriculture</td>
<td>-</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>College of Education</td>
<td>1</td>
<td>-</td>
<td>10</td>
</tr>
<tr>
<td>College of Commerce &amp; Accountancy</td>
<td>-</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>-</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>College of Home Economics</td>
<td>-</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>1</strong></td>
<td><strong>3</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>
time to time, faculty members were allowed to attend seminars/workshops and other pertinent activities related to their respective fields of specializations.

**STUDENT SCHOLARSHIPS AND RECOGNITION**

**Student Scholarship**

CMU recognizes every student’s exemplary performance through various scholarship grants. As of SY 2011–2012, a total of 4,363 availed various scholarship grants; 3,121 or 72% of whom were institutional scholars and 1,242 or 28% were non-institutional scholars (Figure 3).

The recipients of institutional scholarships where CMU spent a total of PhP 6,897,910.00 funding were those University Scholars with general weighted average (GWA) of 1.0–1.45; College Scholars with GWA of 1.5–1.75; Full and Partial Entrance scholars, Valedictorian, Salutatorian and CMU Grant-In-Aid with GWA of 1.76–2.0; Socio-Cultural, Leadership Grants, ROTC, Socialized Tuition Fee Scheme and Discounted Tuition Fees (for son & daughters of CMU Employees). Whereas, the non-institutionalized scholarships grants through CMU amounted PhP 23,252,155.35. The non-institutional scholars were those Provincial/City Scholars, Barangay Scholars, Elected SK Chairman and SK Kagawad, Agricultural Competitiveness Enhancement Fund Executive Committee (ACEF–EXECOM) of various Representatives, Overseas Workers Welfare Administration–Overseas Filipino Workers Development Scholarship Program (OWWA–OFWDS), Department of Agriculture–Agricultural Training Institute (DA–ATI), Department of Science and Technology.
On Photo. Dr. Jesus Antonio G. Derije, USM President, serves as guest speaker; Dr. Derije receives from Dr. Maria Luisa R. Soliven, CMU President a plaque of appreciation; and Dr. Soliven awards a student honoree.

Dr. Carolina D. Amper (third from left) ranks first in the 2012 Licensure Examination for Agriculturists (LEA).

(DOST), and Commission on Higher Education (CHED). Other agencies which offered scholarship grants were Del Monte Foundation Inc. (DMFI), Associated Bukidnon Sugarcane Farmers, Inc. (ABSFI), San Miguel Corporation (SMC), MENZI, Sun Life Financial Phils. Foundations, East West Seed Company, UCPB-CIIF Foundation, Inc. (COCO Foundation) Inc. Syngenta Scholarship Program, UNIFRUTTI Inc., and Don Antonio Floirendo Foundation, Inc. (DAVCO).

Student Recognition

CMU acknowledges students with honors. This thrusts CMU in recognizing and awarding 38 graduates with honors; 1 Summa cum Laude, 3 Magna cum Laude and 34 Cum Laude for SY 2011–2012. The College of Education had the highest number of graduates with honors followed by the College of Agriculture, College of Commerce and Accountancy, College of Arts and Sciences, College of Home Economics and the College of Engineering (Table 2).
Performance in Licensure Examinations

CMU’s excellent performance affirms that the university has always been one of the top performing schools in many areas by repetition.

In 2012, the university ranked 1st and 9th in the Licensure Examination for Agriculturists and obtained 100% passing rate for Electrical and Mechanical Engineers. The College of Agriculture, Forestry and Veterinary Medicine were top 2, 3 and 4, respectively among the Agriculture, Forestry and Veterinary Medicine Schools nationwide. The passing percentage of CMU as a whole is consistently higher than the national passing percentage including the Licensure Examinations for Teachers (LET), Nutrition and Dietetics (ND), Accountancy (CPA), Nursing and Civil Engineering.

Graduate Profile

The university keeps on producing proficient graduates. In 2012, the university conferred a total of 1,002 graduates; 849 or 85% of whom for second semester SY 2011-2012, 48 or 5% for summer 2012 and 105 or 10% for first semester SY 2012-2013 (Figure 4). The College of Agriculture has the most number of graduates.

More so, the Graduate School produced 40 competent graduates both
for MS and PhD programs from second semester of SY 2011-2012 to first semester of SY 2012-2013, including summer 2012.

**Accreditation Status**

Inevitably, CMU has been pursuing sustainability being the academic institution of higher learning. Hence, the university has increased its number of accredited programs to 30 or 84% in 2012 among the 37 academic both in undergraduate and graduate programs offered in the university. Of the 30 accredited programs, nine undergraduate programs were granted Level III re-accredited status, two with Level II re-accredited status, four Graduate School programs with Level II re-accredited status and seven qualified for Level III in 2011. Four (4) Engineering programs are qualified for level III and eight programs accredited for Level I in 2012 (Figure 5).
NATIONAL SERVICE TRAINING PROGRAM (NSTP)

CMU as a system encourages possible actions that can enhance students’ compassion and patriotism. Thus, the university strongly supports the National Service Training Program (NSTP). The program encourages the youth to become civic and/or military leaders and volunteers whom could be called upon by the nation in cases their services are needed. The NSTP is composed of three different components, namely: Reserve Officers Training Corps (ROTC), Civic Welfare Training Service (CWTS) and Literacy Training Service (LTS).

Reserve Officers Training Corps (ROTC)

The CMU Reserve Officers Training Corps (ROTC) is a program that highlights citizenship training and instils patriotism, moral virtues, respect for the rights of civilians and adherence to the constitution. The ROTC continuously implements its mission pursuant to RA 9163 with ROTC as one of the component activities in tertiary level education. The University through the ROTC has produced 472 graduates for the second semester 2011–2012 and 622 for the first semester 2012–2013.
Civic Welfare Training Service (CWTS)

The CWTS is designed to develop students to become volunteers in uplifting the people’s standard of living in communities classified as DEPRESSED, DISADVANTAGED AND UNDER PRIVILEGED or DDU. It has conducted several activities in line with health, education, public safety, recreation and morale of citizenry and the protection of the environment and promotion of entrepreneurship. The University, through the CWTS has produced 1,051 student trainees for the second semester of SY 2011-2012 and 1,125 student trainees for the first semester of SY 2012-2013.

Literacy Training Service (LTS)

The LTS is deliberated to develop students to become volunteers for the general welfare of the marginalized, towards activities that have social impact in Literacy and Numeracy Education. The University through its LTS program produced 633 student trainees for second semester of SY 2011-2012 and 472 student trainees for the first semester of 2012-2013.

In due recognition of the excellent performance of Major Hermie M. Pava Jr. as NSTP Director, the Philippine Drug Enforcement Agency (PDEA) Director General Usec. Jesus Gutierrez awarded him a Plaque of Recognition for his services and support rendered in the promotion of preventive education and community involvement in Region X.
Student Activities

Inasmuch as the university is dedicated to serve the students, a total of PhP 300,000 was taken from the student school fees used to finance various activities of the Supreme Student Council (SSC) and the Association of Registered Student Organizations (ARSO) to wit:

- Philippine Association of Campus Student Adviser (PACSA) – Mindanao-wide Congress at General Santos City on August 31 to September 2, 2012. CMU funded the attendance of nine student leaders and three student organization advisers;
- CMU funded the attendance of one SSC officer and 2 ARSO student leaders to the UNESCO Club World Heritage Education and Encounter Seminar–workshop on October 25–27, 2012 at Palawan. CMU also funded the attendance of one SSC officer and 2 ARSO student leaders.
- CMU sponsored the LeadCom CMU Young Leader’s Boot Camp in coordination with the AYALA Foundation at the Philippine Carabao Center (PCC), Musuan, Maramag, Bukidnon on November 30–December 2, 2012. CMU funded the participation of 100 CMU students.
- 33rd Philippine Association of Campus Student Adviser (PACSA) Year-End Congress at Teacher’s Camp, Baguio City on November 24–27, 2012. CMU funded the attendance of five SSC officers, ARSO student leader and OSA Coordinator.
- CMU 7L2FM (7 Loaves and 2 Fishes for the Multitude Project) for the Typhoon PABLO victims at Valencia City and Barangay Dologon, Maramag Bukidnon on December 2012 with the Office of the Student Affairs (OSA) together with the 4 major Organizations (SSC, USSCO, Central Post and BLAZER) and the ARSO.
- UNESCO 2013 National Innovation Conference on Education (NICE) at Calamba, Laguna. CMU supported the attendance of four SSC officer, one student leader and three faculty advisers.

Top to bottom. CMU student leaders participate in various activities inside and outside the region.
Student Achievements

CMU, committed to hone highly competitive and competent students and top-notch graduates, continuously soars high in academics both in regional and national competitions.

10th National Forestry Olympiad (NFO)

The College of Forestry and Environmental Science was declared CHAMPION during the 10th NFO Quiz Bowl Category held at the College of Forestry and Natural Resources, UP at Los Baños. Nine state colleges and universities in the country participated, namely: Benguet State University (BSU), Central Mindanao University (CMU), Ifugao State University, Isabela State University, Kalinga-Apayao State College (KASC), Mindanao State University (MSU), Southern Luzon State University (SLSU) and University of Mindanao (UM). The NFO was envisioned to promote linkages and camaraderie among forestry students nationwide and to serve as medium for launching a unified stand on issues affecting the environment and natural resources.

6th Northern Mindanao Federation of Agriculture Students (NorMinFAS)

As one of the member-schools of the NorMinFAS, the College of Agriculture represented CMU to the 6th Mindanao Agriculture Students Congress hosted by Mountain View College on November 20–23, 2012. It was participated by 7 other agricultural state colleges and universities in Mindanao, namely: Xavier University (XU), Camiguin Polytechnic State College (CPSC), Mindanao State University – Naawan (MSU), Misamis Oriental State College of Agriculture and Technology (MOSCAT), Caraga State University (CSU) and Misamis University (MU).

CMU was declared as the over-all champion with 197 points, followed by CPSC with 154 points, XU with 125 points and MVC with 101.5 points.

38th Philippine Institute of Civil Engineers, Inc. (PICE) Convention

CMU through its College of Engineering won 1st Runner-Up at the 31st National Civil Engineering Students Quiz
and 3rd Place at Bridge Building Competition by PICE Convention held in Iligan City on October 5, 2012. The PICE aims to advance the knowledge and practice, stimulation of research in civil engineering and professional improvement of its members, as well as the establishment of central point of reference and union of civil engineer practitioners.

37th Integrated Electrical Engineers (IIEE) National Convention

CMU won as 2nd Runner-Up in the 12th National Math Wizard Competition at the IIEE National Convention at SMX Convention Center, Pasay City on November 15–17, 2012. The IIEE aims to upgrade the technical skills, improve the competency of Filipino electrical engineers and promote camaraderie within the industry.

2012 Top Ten Outstanding Students of the Philippines (TOSP)

The university is very proud of Ms. Maria Janua B. Polinar, an AB Political Science Magna cum Laude graduate, who was one of the top TOSP awardee in 2012. TOSP aims to carry on the national hero’s legacy through the Filipino youth by honoring the students who are exemplars in their academic fields and who take part in changing the society for the better.

2012 Philippine Association of State Universities and Colleges (PASUC) National Socio-cultural Competition

CMU bagged awards during the 2012 PASUC National Socio-cultural Competition held at the Philippine Normal University–Manila (PNU) on December 12–15, 2012. CMU got the 2nd place for the Quiz Bowl, 6th place in Vocal Solo, 4th place in Charcoal Rendering, and 8th place in Folk Dance competition.
CMU Hosted MASCUF 2012 & Dominated the Socio Cultural Contest

Hosting the Mindanao Association of State Colleges and Universities Foundation (MASCUF) 2012 together with the Bukidnon State University (BSU) signalled another aspect of growth and development for Central Mindanao University, being able to embrace the challenges and responsibilities of this four-day event with about 900 delegates from 25 competing schools eventually served as an accomplishment for the entire CMU family.
CMU leaped another milestone as it was hailed the Overall Champion in the MASCUF Socio-Cultural 2012 on November 26–29, 2012 in CMU, Musuan, Bukidnon and BSU, Malaybalay City, Bukidnon. The university painted the town red after bagging the following awards:

1st place – Charcoal Rendering
1st place – Hip Hop Competition
1st place – Folk Dance Competition
2nd place – Vocal Solo
2nd place – Quiz Bowl
3rd place – Vocal Duet
3rd Runner up – Ms. MASCUF 2011
4th place – Instrumental Playing
4th place – Modern Contemporary Dance

In the sports competition, exemplary performances were evident among the CMU MASCUF players. The University got the 10th place among the 25 schools. CMU garnered the following:

Gold – Table Tennis (Men)
Bronze
- Badminton (Men)
- Football (Men)
- Swimming (Men)
- Swimming (Women)
- Table Tennis (Women)

4th Places
- Basketball (Women)
- Dance Sport Competition (Standard)
- Lawn Tennis (Women)
- Miss. MASCUF 2012
- Volleyball (Men)

5th Place
- Volleyball (Women)
RESEARCH

“A good research abridges economic, social, environmental, agricultural, educational and social gaps toward sustainability”
As an institution of higher learning, CMU has been striving for excellence in research. The university is committed to undertake and promote collaborative, participatory and interdisciplinary research to generate knowledge and technologies capable of improving the quality of life.

A good research abridges economic, social, environmental, agricultural, educational and social gaps toward sustainability. Hence, CMU has responded to the demands for national development, directing research activities towards goals for development.

With this, the university shall develop programs for attaining peace, food security, people empowerment, sustainable environment, forest resources management, agro-industrialization, biodiversity conservation, and goat R&D Program for a progressive and humane society. Part of attaining these goals is to pursue several equipping standards. The university has to harness and develop the human resources in the university, conduct periodic evaluation of the faculty’s researches, improve laboratory and research facilities to produce quality outputs, establish and maintain linkages with other government and non-government institutions locally and internationally, and conduct relevant basic and applied researches to address the needs in the community, region and country as a whole.

The pursuit of these research thrusts underwent refinements to enable the implementation, monitoring, evaluation, and utilization of various research results.

RESEARCH IMPLEMENTATION

Firm institutions are built through strong bonds of research. This year, CMU generated and implemented a total of 75 researches: 35 completed and 40 on-going. Of the 75 researches, 48 were CMU-funded and 27 were funded by external sources (Appendix 2). The university also sets pathways for research by allocating PhP 1,320,000.000 and sourcing out PhP 54,223,874.36 from external funding and grants. The external funding included grants from both national and international linkages of this university.

Above. MOA signing with GREASE at Kasetsart University, Bangkok, Thailand on May 10, 2012.

Below. MOA signing between CMU and Gyeongsan National University of South Korea at CMU, Musuan, Bukidnon on February 15, 2012.
**Linkages**

**International Linkages**

The international linkages include the Center de Cooperation Internationale en Recherche Agronomique pour le Development (CIRAD), France and 5 Asian Research Agencies including Murdoch University, Australia; International Foundation for Science (IFS), Stockholm, Sweden; Vestergaard Frandsen Sa (VF–SA), in Lausanne, Switzerland; Gyeongsan National University of South Korea; Department of Life Science and Center for Tropical Ecology and Biodiversity, Tunghai University, Taiwan; Department of Entomology, Texas A & M University (TAMU); Department of Ecology and Evolutionary Biology, University of Connecticut (UCONN–EEB); National Science Foundation (NSF), USA; Kasetsart University (KU), Chatuchak, Bangkok, Thailand; National University of Laos (NUOL); Faculty of Agriculture (Nabong Campus), Vientiane, Laos PDR; National Institute for Veterinary Research (NIVR), Hanoi, Vietnam; National Veterinary Research Institute (NIVNaVRi), Khan Phnom Penh, Cambodia; and the International Crops Research Institute for the Semi–Arid–Tropics (ICRISAT), India.

**National Linkages**

The national linkages include the Commission on Higher Education (CHED); Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD); Northern Mindanao Consortium for Health & Development (NorMinCoHRD); Northern Mindanao Consortium for Industry Energy & Engineering Research Development (NORMINCEERD); Silliman University, Department of Environment and Natural Resources–Protected Areas and Wildlife Bureau (DENR–PAWB); Philippine Center for Postharvest Development and Mechanization (PhilMECH); Department of Agrarian Reform–Agrarian Reform Community Connectivity and Economic Support Services (DAR–ARCESS); Department of Science and Technology (DOST); Phil Rice; Planters Products, Inc. National Research Council of The Philippines (NRCP); Department of Tourism (DOT); Philippine Eagle Foundation; (DA Region–XI, Department of Science and Technology - Philippine Council for Health Research and Development (DOST–PCHR); Liceo de Cagayan University (LDCU); Mariano Marcos State University (MMSU); Xavier University (XU); National Seed Industry Council (NSIC); Bank of the Philippine Island.

**Bottom left to right.** Presentation and evaluation of R & D papers and open forum during Agency Annual In-House Review (AIHR) on July 17–18, 2012 at the University Farmers Training Center (FTC).

**Opposite page.** Dr. Emmanuel T. Baltazar, Director of Extension, gives an overview of the AIHR; Dr. Maria Estela B. Detalla, Director of Research presents the guidelines on paper presentation; and Dr. Anthony M. Penaso, VP for Academic Affairs gives his message.
Magsasaka at Siyentista Tungo sa Pag-unlad ng Agrikultura (MASIPAG); Northern Mindanao Integrated Agriculture Research Center (NOMIARC); Local Government Units (LGUs); UP Training Center for Applied Geodesy and Photogrammetry (UP-TCAGP); AECOM Philippines, Inc.; Rapid Agrobiodiversity Appraisal (RABA), Provincial Government of Bukidnon; University of the Philippines – Center for Integrative and Development Studies (UP-CIDS); Gingoog City Veterinary Office; Municipal Agriculture, Barobo, Surigao del Sur; Municipal Agriculture, Tagbina, Surigao del Sur; Development Academy of the Philippines (DAP); Environment and Natural Resources Office (ENRO), Malaybalay City; Ecosystem Research and Development Services (ERDS), Region 10; and the Municipality of Kitaotao, Bukidnon and Barangay Sinuda, Kitaotao, Bukidnon.

Seminars and Symposia

The University Research Office in coordination with the College of Forestry and Environmental Science and the College of Nursing sponsored a University Research Seminar with a theme “Green Universities for Sustainable Future” on February 10, 2012 at the College of Nursing Audiovisual Room. Professor Dahe Jiang from Tongji University of Shanghai, China served as the guest speaker. Faculty and students joined the said seminar.

Part of CMU's goals is to support high-caliber researchers in their quest to bring about quality researches for the benefit of the university and its target clienteles. This year, as part of professional updating, a number of faculty researchers and research staff attended various meetings, seminars, workshops, conventions and other related activities. In general, these researchers joined a total of 80 conferences (74 national and 6 international research assemblies).

Moreover, Dr. Eiichi Hondo, professor of Nagoya University, Nagoya City, Japan served as Plenary Speaker during the CMU Annual In-House Review and Evaluation of Research and Extension Outputs. He spoke about “Fostering Globally-Minded Individuals and Internationalizing Nagoya University.”

AGENCY ANNUAL IN HOUSE REVIEW (AIHR)

AIHR is the venue for research evaluation in CMU. In 2012, the Research Office conducted the 25th University Annual In-House Review and Evaluation of Research and Extension Outputs on July 17–18, 2012 at
### Completed Research (AFnR)

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<tr>
<th>Rank</th>
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### On-going Research (AFnR)

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<td>Detection and Quantification of Antibiotic Residues in Meat and Liver Samples in Region 10: Misamis Occidental and Lanao del Norte</td>
<td>Dr. Luzviminda T. Simborio</td>
</tr>
<tr>
<td>2nd</td>
<td>Morphology, Ecology and Conservation of Selected Threatened Endemic, Rare and Economic Species of Vascular Seed Plants in Mindanao</td>
<td>Dr. Victor B. Amoroso, et.al</td>
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<tr>
<td>3rd</td>
<td>Development and Promotion of ADLAI (Coix lacryma-jobi) as Alternative Staple Food in CMU, Musuan, Bukidnon</td>
<td>Dr. Agripina R. Aradilla, et.al</td>
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### Completed Research (NON-AFnR)

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<td>Corporate Social and Environmental Responsibility: Experiences in Bukidnon</td>
<td>Dr. Eva N. Mendoza, et.al</td>
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<td>2nd</td>
<td>Compressive Strength Assessment of Bagasse Ash-Lime Sludge-Ordinary Portland Cement Blend</td>
<td>Dr. Einstine M. Opiso, et. al</td>
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<tr>
<td>3rd</td>
<td>The Average of the 2nd, 4th and 6th Power of Norms of Polynomials with Coefficients on (0, 1) and (0, 1) on the Boundary of the Unit Disc</td>
<td>Dr. Alnar L. Detalla, et.al</td>
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<td>A Case Study on Pre-service Mathematics Teachers Conceptions of Mathematics and its Teaching: The Coherence with Classroom Instruction</td>
<td>Dr. Denis A. Tan, et. al</td>
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<td>2nd</td>
<td>Bukidnon Secondary Physics Teachers’ Alternative Views and Associated Mental Models on Simple DC Circuits</td>
<td>Dr. Teresita D. Tagonahan</td>
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<td>3rd</td>
<td>Nurture and Nature: A Community Based Projects on Sustaining the Matigsalug Tribe’s Language, Culture, Nature and Health Practices</td>
<td>Dr. Estrella D. Alfabeto, et.al</td>
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### Completed Development (AFnR)

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<td>Cheap and Effective Control Method of Club Root Disease of Crucifers: Dissemination of Information to Farmers in Three Vegetable-Producing Regions of the Country I. Cordillera Administrative Region (CAR), Northern Mindanao and Quezon Province</td>
<td>Dr. Rebecca B. Cagmat, et.al</td>
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**Left to right.** Dr. Anthony M. Penaso, VP for Academic Affairs, Dr. Luzviminda T. Simborio, VP for Research and Extension and Dr. Maria Luisa R. Soliven, CMU President award the winners of the 25th CMU Annual In-House Review and Evaluation of Research and Extension Outputs.
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<td>National Cooperative Trial (NCT) for Field Legumes (Soybean and Peanut)</td>
<td>Prof. Sylvia Minda T. Dargantes</td>
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<td>National Cooperative Trial (NCT) for Corn (NCT Corn)</td>
<td>Dr. Nenita B. Baldo</td>
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<td>3rd</td>
<td>Network for Animals: Its Animal Welfare Project in Mindanao</td>
<td>Dr. Medino A. Yebron</td>
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<td><strong>Completed Development (NON-AFNR)</strong></td>
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<tr>
<td>1st</td>
<td>Mentoring School Teachers and Community Through Educational and Sports Assistance – II</td>
<td>Dr. Gladys S. Escarlos, et. al</td>
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<td>Project: Assessment on Electrical Installation, Safety and Conservation in Barangay Bayabason, Maramag, Bukidnon</td>
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<td>Prof. Roger C. Flores, et.al</td>
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<td>3rd</td>
<td>Career Pathing for High School Senior Students in Valencia City</td>
<td>Prof. Lucy B. Ledres, et al</td>
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<td>1st</td>
<td>Community Organizing And Participation On Health Promotion</td>
<td>Prof. Pilar V. Domagsang, et. al</td>
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the University Farmers Training Center (FTC). The activity aimed to evaluate on-going and completed researches and select the best oral and poster papers, disseminate significant research results and their contribution to national goals and research agenda, promote interaction between and among researchers on research findings and technologies generated for field testing and dissemination, strengthen R&D capabilities of CMU researchers through sharing of outputs and experiences, and identify future R&D activities from the on-going and completed research projects/studies.

In entirety, the university researchers presented a total of 78 research and development (R&D) papers. Of these R&D papers, 53 research papers, 25 development papers and 7 thesis and dissertation papers were properly scrutinized and evaluated. Eleven evaluators from NOMCARRD member agencies were invited to the AIHRE. CMU researchers received 28 awards during the 25th AIHRE both on-going and completed studies of research, development, thesis/dissertation and poster AFNR and Non-AFNR categories (Table 3).

To advance the frontiers of knowledge through research, the AIHRE winning Agriculture, Fisheries and Natural Resources (AFNR) research and development papers including thesis or dissertation were presented during the NOMCARRD Regional Symposium for Research and Development Highlights (RSDRH) on November 23, 2012 at NEDA X, Cagayan de Oro City.

Research Awards

Excellent researchers produce superb researches. Behind the winning papers in research and development are the concerted efforts of the CMU researchers. This year, CMU researchers gained several awards both in local, regional, national and even international symposia for research and development.

Dr. Victor M. Amoroso
- Asian Best Oral Research Presenter Ecosystem Category (Plants) – Diamond (1st Place); 2nd Asian Journal of Biodiversity Professional Lectures; April 27–28, 2012, Liceo de Cagayan, Cagayan de Oro City
- Outstanding Asian Biodiversity Publication Ecosystem Category (Plants) Diamond (1st Place); 2nd Asian Journal of Biodiversity Professional Lectures; April 27–28, 2012, Liceo de Cagayan, Cagayan de Oro City
- Outstanding Asian Biodiversity Publication Species Category (Plants) – Diamond (1st Place); 2nd Asian Journal of Biodiversity Professional Lectures; April 27–28, 2012, Liceo de Cagayan, Cagayan de Oro City

(From Left to right). Dr. Victor B. Amoroso with his numerous awards; Dr. Cecilia V. Bautista (Center, opposite page) receives a Plaque of Recognition from DA-BAR representatives; and Dr. Joy M. Jamago receives her award as Outstanding Filipino Researcher 2012.
Dr. Alma B. Mohagan
- Best Paper Award Animal Species Category– Diamond; 2nd Asian Journal of Biodiversity Professional Lectures; April 27–28, 2012, Liceo de Cagayan University, Cagayan de Oro City
- Outstanding Biodiversity Publication Award for Animal Diversity Category; 2nd Asian Journal of Biodiversity Professional Lectures; April 27–28, 2012, Liceo de Cagayan University, Cagayan de Oro City
- First Best Paper Diamond Award – Ecology Conservation Category; World Research Festival, International Association of Multidisciplinary Research (IAMURE), August 24, 2012, Marco Polo, Cebu City
- 3rd Best Paper Award; Word Research Festival, International Association of Multidisciplinary Research (IAMURE), August 24, 2012, Marco Polo, Cebu City

Dr. Alma B. Mohagan, Heidi C. Porquis, and Dave P. Buenavista
Diamond Award or First Best Oral Paper Award; Word Research Festival, International Association of Multidisciplinary Research (IAMURE), August 24, 2012, Marco Polo, Cebu City

Dave P. Buenavista
First Best Powerpoint Award Category; Word Research Festival, International Association of Multidisciplinary Research (IAMURE), August 24, 2012, Marco Polo, Cebu City

Dr. Nenita I. Prado
Diamond and Asian Awards for Oral Research Presentation, Asian Conference for Higher Education Research on August 20, 2012 at Pryce Plaza Hotel, Cagayan de Oro City

Dr. Maria Estela B. Detalla
Best Paper in Weed Science, Pest Management Council of the Philippines, May 3–6, 2012 at L’Fishber Hotel, Bacolod City

Dr. Cecilia V. Bautista
Plaque of Recognition for her research study “Assessment of Ralstonia solanacearum in the Soil in Different Tomato Growing Areas in Lantapan, Bukidnon”, DA–BAR, Diliman, Quezon City on October 17, 2012

Dr. Joy M. Jamago
Outstanding Filipino Researcher 2012 Award, Philippine Association of Institutions for Research, Inc., Affiliate of Association of Institutional Research, USA on November 16, 2012 at N Hotel, Cagayan de Oro City
RESEARCH UTILIZATION

Research Publications

A well-done research should be published especially if it answers the needs of the people. This year, a number of research outputs and findings were published in local, national and international papers. These included abstracts or full papers, proceedings, scientific journals or as a book section (Appendix 3).

Center for Biodiversity Research and Extension in Mindanao (CEBREM)

CMU was recognized as the Higher Education Regional Research Center. With this, the CEBREM was institutionalized on November 17, 2011 through Resolution No. 103, s. 2011. It has obtained PhP 3.5 million from DA-BAR for the construction of its building and PhP 1.5 million for the purchase of equipment. CEBREM aims to protect and conserve the remaining biodiversity in Mindanao through research, training, education and community involvement. CEBREM houses the equipment for biodiversity research and extension activities and serves as an additional office space for its personnel and as a venue for the training of different stakeholders. It has six units and each unit is headed by a coordinator. These include the Biodiversity Research Unit (BRU), Biodiversity Extension and Public Awareness Unit (BRDU), Biodiversity Education Training Unit (BETU), Biodiversity Laboratories and Facilities Unit (BLFU), University Museum (UM) and Mt. Musuan Zoological and Botanical Garden (MMZBG).

CEBREM Building Inauguration

The CEBREM building was inaugurated on November 26, 2012. Engr. France Gayzel Caseres represented the DA-BAR Director. Dr. Nicomedes P. Eleazar, the university president, vice presidents, directors and CEBREM researchers and staff attended the launching. Dr. Maria Luisa R. Soliven, gave the welcome remarks. The CEBREM Director, Dr. Victor B. Amoroso, in his opening message emphasized on the founding purpose for the establishment of CEBREM which is to protect and conserve the remaining biodiversity in Mindanao through research, training, education and community involvement. CEBREM becomes an integral part of the university whose vision and mission call for environmental consciousness for a sustainable environment and humane society.

For more than a year of operation from its inception, CEBREM accomplished various activities such as the CEBREM logo contest and conduct of several seminars. The winning entry was adapted as CEBREM’s logo. Nine participants joined the contest and the top three winners received prizes.
and awards. Ms. Lynne I. Brasilero, Joylinber D. Tandingan and Lilben I. Daypuyat and Mark Jayson N. Fuentes received the first, second and third awards, respectively.

CEBREM also conducted and assisted seminars such as the Footprints of a Budding Scientist: From Antioxidants to Clay Mineral Structures to Marine Sciences And Beyond; Studies Of Ferns and Fern Allies In Taiwan; Systematic Study on the Genus Athyrium; The Importance of Genetic Counseling in the Philippines; Genomic Events Accompanying the Pelagobenthic Transition in a Marine Sponge; The Use of Animal Models in the Study of Human Diseases; CHED-CMU Research Proposal Writeshop; 12th National Genetics Symposium; and DOST Balik Scientist Program Seminar Series “Natural Products for Food and Health.”

Under the umbrella of CEBREM is the University Museum (UM) headed by a coordinator. Through the years, the UM has become a recipient of various local and international visitors. This year, it has received and accommodated 2,313 visitors. Further, a total of 8,721 specimens were databased and catalogued according to their family, genera and species under the UM’s Botany section. The Zoology section stores more than 5,000 animal specimens classified also by family, genera and species.

On the other hand, the Mt. Musuan Zoological and Botanical Garden (MMZBG) has recorded 15,865 visitors/climbers with a total income of PhP 151,500.00 from January to October 2012.

CEBREM started a fresh beginning and is now looking forward to reach beyond the borders of quality service for CMU and its clients.

For 35 years, CMU has been the base agency of NOMCARRD. It supports some of the consortium’s financial, manpower and other logistic needs.
The university has been contributing to the NOMCARRD’s banner programs through equitable access of competent researchers. The CMU, through Dr. Maria Luisa R. Soliven, the university president also chaired the NOMCARRD’s Regional Research and Development Coordinating Council (RRDCC), the decision-making body of the consortium.

Also, the university pulled and assigned competent faculty to lead the different arms of NOMCARRD, namely: The Regional Applied Communication Group (RACG) and Regional Management Information System (RMIS). The Consortium hosts the annual Regional Symposium for Research and Development Highlights (RSRDH) which also served as the venue for various winning CMU-generated and implemented researches that contend with other best researches in the region.

This year, three program proposals were approved and implemented through PCAARRD funding. These programs were headed by CMU in coordination with other research agencies and institutions. These projects are the S&T Program for the Development of Sustainable Giant Bamboo Industry in Northern Mindanao (CMU, CPSC and DENR); Morphology, Re-assessment and Conservation of Threatened, Endemic, Rare and Economic Philippine Pteridophytes (TEREP) (CMU as implementing agency); and Impact Assessment of PCAARRD Non-degree Training Programs (CMU as implementing agency in Mindanao).

With the Consortium’s aim to promote regional development through research and to disseminate knowledge products of member agencies’ R&D activities, the first issue of the Journal of Research Abstracts for 2010–2011 on November 23, 2012 at NEDA 10, Cagayan de Oro City was launched. The Journal of Research Abstracts: Volume 1 contains the CMU and other NOMCARRD member agencies’ winning research abstracts through RSRDH.

Regional Symposium on Research and Development Highlights (RSRDH)

The NOMCARRD RSRDH is an avenue to recognize winning AFNR R&D papers towards
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<td><strong>C. Thesis/Dissertation Category (AFNR)</strong></td>
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<td>Best</td>
<td>Alan P. Dargantes</td>
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<td><strong>D. Technical Poster (AFNR)</strong></td>
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<td>Plant Diversity and Status in Three LTER Sites in Southern Philippines</td>
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Table 4. Winners of 2012 NOMCARRD Regional Symposium on Research and Development Highlights
research utilization. This year, CMU presented eight completed R&D winning papers to the 25th RSRDH on November 22–23, 2012 at the National Economic Development Authority (NEDA-10) with the theme “Disaster Risk Reduction through Research, Development and Extension (RDE) Initiatives.”

The symposium aimed to evaluate researches conducted by the different member agencies; to promote interaction between and among researchers, extension workers, the local government units and other clientele; to provide a venue for the discussion of the state of the art research and development activities in the region; to foster regional collaboration and information among member agencies; to establish future direction in research and development in Agriculture, Fisheries Natural Resources and Environment (AFNRE) and to provide a venue where Science and Technology Based-Farm (STBF) project results are presented.

CMU is moving forward unleashing its immense potential for quality researches. Of the eight completed R&D paper entries, six papers garnered several awards under research, development, dissertation and poster categories (Table 4). These winning papers will compete with other researches all over the Philippines through the National Congress for Research and Development Evaluations.

**NOMCARRD-RACG Coordinator As Applied Communication Expert (ACE)**

The Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD) and the Rural Development Administration (RDA) of Korea established a cooperation agreement in order to conduct exchange of experts, information, and technologies to promote rural development. PCAARRD and the RDA productively sustained the said program since 1995.

The PCAARRD–RDA Workplan of Cooperation is developed annually. One of the major components sustained in the said Workplan is the Applied Communication Expert (ACE) Dispatch on Quality Documentation and Publication. Under this component, a Filipino ACE is dispatched to the International Technology Cooperation Center (ITCC)–
RDA for three months in order to provide support and assistance to RDA in terms of improving documentation; presentations; communication process; publication of various information materials and scientific papers; organizational communication materials such as business letters, memos, letter of agreement and the likes; and building RDA staff capacity in English language and documentation.

In the 4th quarter of 2012, PCAARRD sent Prof. Lucerne M. Razalo, Coordinator of the Regional Applied Communication Office of NOMCARRD and faculty of the Department of Development Communication, CMU, College of Agriculture to participate in the PCAARRD-RDA Workplan of Activities for 2012 in Korea. She served as Applied Communication Expert (ACE) of the International Technology Cooperation Center (ITCC), Rural Development Administration (RDA), the Republic of Korea.

Prof. Razalo is the 4th ACE for 2012 at the ITCC – RDA from September 24 to December 17, 2012. Prof. Razalo’s highlights of accomplishments as ACE can be categorized into five major activities: 1) editing/writing 2) seminar series on Effective Technical Writing, Presentation Skills, Letter Writing, and Writing for Instructional Materials (IMs); 3) development of English Reference Manual 4) institutional field visits; 5) liaising between PCAARRD and RDA; and 6) other functions.
EXTENSION

“CMU persistently supports extension activities by bridging experts and target clientele through technology promotion and commercialization.”
As part of its commitment towards community development, the University allocated a total amount of PhP 4,123,533 for the implementation of various extension activities that included 15 extension programs and projects with 59 component studies. Seven colleges were involved in these extension projects: the Colleges of Agriculture, Arts and Sciences, Education, Forestry and Environmental Science, Nursing, Home Economics, and Veterinary Medicine.

UPDATES ON EXTENSION PROGRAMS AND PROJECTS

Community-Based Sustainable Development Program (COMBASUDEP)

This is the banner program of the University Extension Office in coordination with the College Extension Coordinators. It brings Central Mindanao University to the local government units, barangays and non-government organizations. It aims to empower the people, people’s organizations and human resource development, and facilitates the diffusion of technology to the target clients. It is a vehicle that promotes and transfers mature technologies, and facilitates dissemination of development information at the local level.

Under this program with specific activities coordinated by the various colleges concerned, the Extension Office has recorded a total of 63 trainings attended by 2,021 participants.

Barangay Integrated Development Approach for Nutrition Improvement (BIDANI)

This program aims to help improve the nutrition and general well-being of the rural poor through a more effective organization of barangay and municipal structures, and improve the capabilities of local governments in their planning and management aimed at poverty alleviation and at meeting the basic needs of the vulnerable sector in the service areas. BIDANI has various components namely: Barangay Integrated Development Approach (BIDA), Participatory Domiciliary Nutrition Rehabilitation (PDNR), Food Security for Nutrition Improvement (FSNI), Natural Resources Management (NRM), and Barangay Management Information System (BMIS).

Students participate in Beadwork Making during the 1st Research Development and Extension Week.
This program has conducted 25 trainings: 2 for BIDA, 14 for PDNR, 9 for FSNI which were attended by 882 participants.

CMU–CHED–UNLAD Program

This is a collaborative program that aims to strengthen the capability of a partner Local Government Unit (LGU) in the effective delivery of extension services towards food security and sustainable development. It also aims to empower the farmers to become globally competitive through the provision of appropriate technologies and relevant information.

At present, it has two techno-projects in Barangay Dologon, Maramag, Bukidnon which are:

1. Dologon Technology Park (Swine and Goat Production) Projects

This is an agribusiness incubator at the barangay level and its implementation was based upon the Memorandum of Agreement (MOA) between the LGU Dologon and CMU.

Since 2009 until 2012, the swine project dispersed a total of 58 piglets to the constituents of the barangay. However, the old three sows were already culled and replaced with four heads. For the goat project, only 11 heads of does are alive with 5 kids housed in the new site with abundant forages.

2. Farmers Information and Technology Service (FITS) and Information Education and Communication (IEC) Center

The Center produced primers of top priority commodities identified by the barangay officials of Dologon displayed at the Center. To date, the Center is open on weekdays to the users.

Farmers Bayanihan Center for Rural Development–Integrated Agricultural Development Project (FBCRD–IADP)

The CMU–DAR FBCRD–IADP is continuously implementing the Techno-Demo Services Unit (TDSU) in the three Agrarian Reform Communities (ARCs) in Bukidnon, namely: Lower Kulaman ARC, Sumilao, Bukidnon; North Poblacion ARC, North Poblacion, Maramag, Bukidnon; and Kalilangan ARC, Ninoy
Aquino, Kalilangan, Bukidnon. The Agrarian Reform Beneficiaries’ (ARBs) multipurpose cooperative in each of the above ARCs served as partner-clients of the Unit.

The data below show the projects implemented in the three ARCs from January to December 31, 2012.

The Handicraft Project in Kalilangan ARC commenced after the conduct of many trainings based on the special request by the Municipal Agriculture Officer. The trainings were attended by representatives of all the barangays of the Municipality of Kalilangan as required by Honorable Nenita T. Suyao, their Municipal Mayor.

Table 5. Projects implemented in the Agrarian Reform Communities (ARCs).

<table>
<thead>
<tr>
<th>ARC Location</th>
<th>Project Implemented</th>
<th>Project Status</th>
<th>No. of Farmer Cooperators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Kulaman/Sumilao</td>
<td>Goat Production</td>
<td>Continuing</td>
<td>20 a/</td>
</tr>
<tr>
<td></td>
<td>Handicraft</td>
<td>Continuing</td>
<td>5 a/</td>
</tr>
<tr>
<td>North Poblacion/ Marar-mag</td>
<td>Organic Lowland Rice</td>
<td>Continuing</td>
<td>1 a/</td>
</tr>
<tr>
<td></td>
<td>Goat Production</td>
<td>Continuing</td>
<td>6 a/</td>
</tr>
<tr>
<td>Kalilangan/Kalilangan</td>
<td>Rice Mill operation</td>
<td>Continuing</td>
<td>1 b/</td>
</tr>
<tr>
<td></td>
<td>Rice Trading (“Buy &amp; Sell” Rice)</td>
<td>Continuing</td>
<td>1 b/</td>
</tr>
<tr>
<td></td>
<td>Handicraft</td>
<td>Continuing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hammer Mill Operation</td>
<td>New</td>
<td>4 c/</td>
</tr>
<tr>
<td></td>
<td></td>
<td>New</td>
<td></td>
</tr>
<tr>
<td>Dangcagan</td>
<td>Handicraft Project</td>
<td>New</td>
<td>36</td>
</tr>
<tr>
<td>Don Carlos</td>
<td>Beadwork</td>
<td>New</td>
<td>17</td>
</tr>
</tbody>
</table>

a/ Actual number of adaptors.

b/ Number of cooperative (KIMPC) which is the direct cooperator of the project. The number of Coop members was not considered.

c/ Number of barangays which women-participants to the training are engaged in the project.
The Hammer Mill Operation is a new project implemented for the Kalilangan Irrigators Multipurpose Cooperative (KIMPC), Kalilangan ARC, Ninoy Aquino, Kalilangan, Bukidnon.

In the Early part of 2012, a funding of PhP 100,000 from the CMU-DAR FBCRD/IADP was released for the said project. The mill was installed and became operational in June 2012.

Since its installation, rice mill operation and the rice trading projects are continuously providing additional income to the cooperative.

Activities Implemented in the ARCs

The focal persons assigned in each ARC implemented different activities such as trainings. Various trainings were held together with partner agencies such as people’s organizations, the Local Government Units, the Department of Agrarian Reform, the Municipal Cooperative Development Council (MCDC) and others.

These trainings were included Beadwork Making held on October 23-25 and 29, 2012 at Don Carlos, Bukidnon to purposely respond the need of the Human Resource Manager of the Davao Agri-Ventures Corporation (DAVCO), San Nicolas, Don Carlos, Bukidnon; Corsage and Lei and Give Aways Making conducted on November 26-27, 2012 in Maramag, Bukidnon which aimed to provide the Out-of-School Youth the knowledge and skills to produce useful items to earn additional income; Commercial Cooking held on December 19, 2012 in Kalilangan, Bukidnon to enable the employees prepare/cook by themselves “special” dishes like ham, morcon, embutido, deboned bangus and others.

Information Education Communication (IEC) Material Development

The University Extension through the Information Communication Unit (ICU) has packaged research-generated technologies of faculty members of the University. These packaged technologies had been added to the list of 112 materials produced by the Unit since 2003 to the present.
Techno-Promotion Activities

Conduct of Information Drive

Aside from the production of various printed IEC materials, the University Extension through the ICU has also promoted CMU-generated technologies and other commodities through the conduct of information drives. Basically, the information drive is aimed at exposing the participants to various technologies that would provide them with a wider range of choices for entrepreneurial activities as well as to sell IEC materials that the University Extension Office has produced.

This year, the ICU has conducted four information drives with a total of 593 participants. The first was conducted on March 27, 2012 at the covered court of Barangay Kahaponan, Valencia City with 335 participants who were mostly farmers and homemakers. The second was held in Barangay Batangan, Valencia City on April 27, 2012 wherein 36 participants attended the said activity. Meanwhile, on September 28, 2012, the Unit conducted its third information drive in Barangay Pinatilan, Valencia City with 46 participants.

Effectiveness Assessment Surveys

To find out how effective were the techno-promotional activities of the University Extension Office, the ICU also conducted the two effectiveness assessment surveys on January 25-27, 2012 in Barangay North Poblacion in Maramag, Bukidnon and on July 13, 2012 in Barangay Dagatkidavao, Valencia City. The surveys also aimed to determine the adoption rate of CMU-generated technologies and other commodities promoted during information drives.

Results of the effectiveness surveys revealed that after attending the information drive, majority of the respondents claimed to have changed some of their farming practices. They also confirm that since then, they utilized the technologies in their farms and in their homes particularly on the uses of *Posoqueria dumetorum*.

Prof. Mahalia Acuña (top) presents the CMU generated technologies together with the ICU Staff (right) during an assessment survey.
in treating chickens inflicted with a deadly diseases like the infectious coryza (colds) and in preserving vegetables; recycling of wastes and crafting them into decors/flowers and others; cultural management practices of ginger production; organic vegetable gardening; vermi composting; preserving corn cobs and vegetable wastes as organic fertilizer and practicing desirable animal healthcare such as not tethering their livestock in swampy areas to avoid getting liverfluke infection. Some others have practiced swine deworming. A handful of respondents claimed that they have tried mushroom production.

Moreover, the respondents also said that their utilization of the technologies resulted to increased rice production. They also had reduced their expenses of inorganic fertilizer due to the application of their knowledge on organic farming which they gained during the information drives.

However, few respondents were still at the knowledge level because they have not adopted the technologies due to their hectic schedule and unavailability of capital for inputs.

**KAABAG Production**

Supporting the different extension activities of the University is the Kaabag Newsletter. Published twice a year, it reports the various extension activities with the different extension coordinators as writers together with the ICU staff.
The January-July issue of Kaabag 2012 came out with eight articles for July-December 2012 issue, it has six articles published.

1st University Research Development and Extension Week (RDE)

The 1st University Research Development and Extension Week Celebration was a milestone activity of the University Research and Extension Offices because it used to be the Extension Week Celebration only. Conducted during the Research, Development and Extension (RDE) Week were information drives, short trainings, lectures, presentations, booth and poster making contests, games, display of various technologies generated and knowledge products such as primers, brochures and leaflets.

Topics discussed during the information drive were trichogramma as biological control and vermi composting with Prof. Perla L. Bugayong, a faculty member of the College of Agriculture, as the resource person. A total of 156 participants attended the said activity who were mostly farmers, home makers, program partners, students and others.

Clockwise, from top. The University Research and Extension family. Seated are (left to right) Prof. Mahalia Acuña, ICU Head; Dr. Ma. Luz Soriano, Dean, College of Agriculture; Dr. Emmanuel Baltazar, Director, University Extension; Dr. Luzviminda Simborio, VP for R&E; Dr. Maria Estela Detalla, Director, Research; and Dr. Rolando Eballe, Dean, College of Arts and Sciences. The different activities during the first RDE Week include flower making, poster-making contest, lecture on electrical hazard, dog show, (Opposite page) feeding, display of IEC materials and presentation of technologies generated by the university.
Winners of the Poster Making contest were: 1st place – Erica Ross D. Rom; 2nd place – Grace Aileen G. Villamor and 3rd place – Grace Aureen G. Villamor.

**New MOAs for Extension Projects**

The University has signed a Memorandum of Agreement (MOA) with the Department of Agriculture (DA) to rehabilitate and convert the DXMU Radio Station from AM to FM amounting to PhP 4M. This will benefit the CMU students and listeners, Local Government Units (LGUs) and other government and private sectors in Bukidnon; including other provinces within the coverage area. Another MOA was signed with the DA to establish the CMU Village Level Bio-con Laboratory with an approved budget of PhP 1,706,392.00. CMU’s counterpart for this project is PhP 400,000.00. The laboratory shall disseminate environment friendly pest and disease control bio-con technologies and agents for a healthier approach in farming. A MOA was also signed with the Department of Agriculture-Agricultural Training Institute (DA-ATI) to implement the project “Production of Information, Education and Communication Materials” amounting to PhP 200,000.00. CMU has also entered into an agreement with the Kalilangan Irrigators Multipurpose Cooperative (KIMPC) on input support for Hammer Mill project operation of the KIMPC, Kalilangan, Bukidnon. The project costs PhP 200,000.00. Half of the budget was from the CMU-DAR FBCRD trust fund and the other half was the cooperative’s counterpart. The project aims to ensure the steady supply of inexpensive feeds for swine and poultry projects among their members.
PRODUCTION

“... an income generating arm of the university”
Central Mindanao University, utilizes and sustains its resources through proper management to augment its budget for the university operation. Hence, organizational reforms in the Business Management and Resources Development Office (BMRDO) for optimum resource utilization and more efficient and effective delivery of services was done. On June 16, 2012, the Board of Regents (BOR) approved the Operations Manual whereby BMRDO was renamed into the University Income Generating Program (UIGP) headed by Prof. Reynaldo G. Juan, Vice President for UIGP.

The UIGP envisions for a sustainable income generation for the development of CMU. It shall pursue practices in the development, utilization and commercialization of the natural resources and other economic assets in support of the university’s instruction, research and extension.

The formulation and review of policies relevant to the efficiency, effectiveness and productivity of the income generation function was vested in the University Income Generation Council (UIGC) composed of 11 members: University President as Chairperson; Vice President

Clockwise from left: University income generating projects.
for UIGP as Vice Chairperson; Vice President for Administration; Dean, College of Agriculture; Dean, College of Home Economics; University Finance Management Officer; Director of General Services; Director of Instruction; Director of Research, and the Director of Extension.

The university has 6 divisions: Plantation Crop Production Division (PCPD); Cereal Production and Processing Division (CPPD); Livestock, Poultry and Fisheries Division (LPFD); Forest Resources Development Production Division (FRDPD); University Food and Lodging Services Division (UFLSD); and the Special Projects Division (SPD).

The PCPD is responsible for the implementation, management, and operations of the plantation crops production projects to include rubber, coffee and cacao, fruit crops and commercial nursery, coconut, cassava, sugarcane and other crops.

The rubber plantation area has been increasing which meant increase of rubber production. Hence, the on-going expansion of rubber processing plant addresses the need to establish/ enhance agro-industrial processing
facilities for value-adding activities of the UIGP products.

The CPPD is responsible for the implementation, management, and operations of the cereal crops and vegetable production projects, post-harvest facilities and others. The projects under this division include lowland rice, lowland rice seed (seed net), corn and other grains, upland multi-crops, and rice mill/ grains and feed processing the lowland rice is the top-IGP for this year.

The LPFD is responsible for the implementation, management, and operations of the animal production projects including the production of organic fertilizers. The projects include the Beef Cattle and Horse, Dairy, Goat and Sheep, Swine, Poultry, Fish and other Aquatic Resources, and Organic Fertilizer.

The FRDPD handles the production and maintenance of forest and forest resources of the university. Under this division are the Forest Resources Development (FRD), Natural
Extraction and Utilization, and the Eco-tourism projects.

The UFLSD is responsible for the implementation, management and operations of the hotel and restaurant related services of the university. These include the Continuing Education Center (CEC) Hostel and Lodging Services, CEC Canteen and Catering Services, Swimming Pool and Gazebo, and the Farmers Training Center (FTC).

The SPD is responsible for the management, coordination, implementation and monitoring of proposed and approved leased-contract projects entered into by the university with public-private entities for the purpose of undertaking production or services within the university lands and premises, as well as, R & D collaborations and undertaking. The projects under this division include Management of the Agricultural Experiment Station (AES), Leased-Contract for Production and Services, Private-Public Partnerships
(PPP) Joint-Ventures with Business and Industry (R & D), and other special projects for development.

The UIGP in 2012 had a gross income of PhP 47,346,420.58 and a net income of PhP 4,222,392.33. The 25% of this income was used to augment the maintenance and operating expenses of the university. The rest was ploughed back to the various projects to sustain its operation. The university continuously generates income and provides employment opportunities for the unemployed people in the nearby communities.

Instructional Materials Development Center (IMDC)

The present administration has been continuously strengthening the operations of the IMDC through the approval by the BOR of its policies and guidelines in order to produce quality instructional materials for the students and for the CMU faculty members. CMU, as Center of Excellence in Agriculture, Forestry and Veterinary Medicine and Center of Development in Biology and Mathematics Education, has to improve and enhance the publication unit of the university. Hence, the IMDC acquired high-end equipment to produce quality instructional materials and any other publication in the university.
ADMINISTRATION

“An inexorable force that supports and facilitates both the academic and non-academic operations of the university.”
Central Mindanao University highlights the role of the Administrative units in all its endeavors and accomplishments. The admin units serve as an inexorable force that support and facilitate both the academic and non-academic operations of the university. Their contribution is evident in providing effective and efficient management services relating to human resources, finances, supplies, infrastructure development, health security, records, and auxiliary services.

In 2012, the Human Resource Management Office (HRMO) recorded a total of 1,109 non-teaching personnel; 439 (39.58%) are permanent, 650 (58.61%) are job-orders, and 20 (1.8%) are casuals. In recognizing their efforts as an indispensable force of the University, 49 personnel were promoted and 13 casuals were renewed/appointed.

The Financial Management Office (FMO), which is responsible for the supervision of the university's fiscal standing, attested the following information: CMU received a total allotment of PhP318,675,240 from the National Government as provided in the General Appropriations Act (GAA). Out of this budget, 80% was given back to the university's untiring workforce as salaries for the plantilla employees and the remaining 20% was for the Maintenance and Other Operating Expenses (MOOE). Further, the university generated income from fiduciary and non-fiduciary funds that amounted to PhP 109,513,408.34. The income collected from tuition fees was utilized in all essential areas that contributed to the total development of CMU and its neighboring communities. These areas include Instruction (Excess Load Honorarium, Part-Time Services, NBC Cycle 5 Differential, incentives for top notchers/top Performing colleges, President’s Investiture), Research, Extension, Support Services, (Metering for Academic buildings, Accommodation for MASCUF Delegates), Administrative.
Services (Augmentation for MOOE, Security Services, Job-Orders, Internet Connections) Capital Outlay (Repairs/Maintenance/Renovations, Equipment, Enrollment System, Colleges’ Furnitures and Fixtures, Purchase of university Vehicles, Generator Set, Chemistry Laboratory Building, Agriculture classroom improvement) and for Student Activities (Attendance to Conventions/Seminars, University Palaro, and SCUAA Games).

Allocation of Income Collected From Tuition Fees and Other Sources

The University Hospital which centers its mission in attaining the highest standards and ethics of delivering hospital services and health care to all the constituents of CMU community, served a total of 31,051 out-patient clients within the year; 53% were students, 23% private clients, 14% dependents, and 10% faculty members. Medical consultation was recorded as the top service availed and anti-tetanus injection was the most in demand among all the immunizations provided. The wide range of services showed that the University Hospital does not only cater to the immediate needs of its clients but also emphasized on preventive procedures as an important way to eradicate illness. The 27% increase in the number of clients served compared to the previous year shows that the 34 dedicated hospital staff continually gained the trust of the surrounding community.

Being recognized by other agencies across the country is another thing to be proud of. The Philippine Red Cross granted CMU a platinum award for blood donation. Moreover, the Department of Trade and Industry (DTI) identified CMU as one of the recipients of Electronic Blood Pressure Monitors. On October 11, 2012, two units of TERUMO P3000 Sphygmomanometers with 16 spare batteries were turned over to CMU-UH.
The University Planning and Development Office (UPDO) identifies the streamlining of the university-wide development plans as its major concern. One of its components, the University Planning Unit has been responsible for the preparation of various reports required by different local, regional, and national offices. These reports include the Quarterly Physical Report of Operations, Physical and Financial Plan, and the University Accomplishments vs Targets for 2012. The Physical Plant Development Unit, another component of UPDO, prepare plans and designs, program of work and budgetary requirements for various projects including physical structures for the year, as well as, the monitoring and evaluation thereof.

The UPDO through the Management Information System (MIS) reactivated the CMU website and developed computer programs such as: Human Resource and Management Information System (HRMIS), Communication Logs and Tracking System, Web based “Grade Entry Module, and Intranet web based “Virtual CMU”. Moreover, MIS was able to accomplish another timely development in the implementation of various programs such as: SIS.CMU.EDU.PH, ESONLINE. CMU.EDU.PH, CMU FILE SERVER, and CMU Library Information System.

Infrastructure Projects

The General Services Unit being accountable for the university-wide development and maintenance of various infrastructures, has continually performed its tasks toquip: Building Construction and Maintenance,
Overhauling and Fabrication, Electrical, Plumbing, Motorpool, Machineries & Equipment Maintenance, and Campus Landscaping, Beautification and Development. This unit serves as the implementing arm of the Physical Plant Development Office and has been involved in the completion of 15 projects which included the Construction of CEBREM, repair/renovation of 2 student cottages, 3 government cottages, 7 university offices, as well as, improvement of 3 college buildings. Moreover, it is currently manning ongoing projects.

The Linkages and Technology Licensing Office (LTLO) plays a major role in the growth and development of the CMU faculty, staff, and students for them to become active movers in achieving the University Mission as it functions to primarily link, network, and collaborate with other agencies and institutions. Second, it facilitates applications for Technology Licenses in coordination with the University Research and University Extension Office. Within the year, the LTLO established/re-established linkages with the following: Year of Service (YOS) Program Volunteers for Community Outreach and Resource Development (VCORD), Paul Llido – Computational Linguist, National Chung Hsing University (NCHU), Malaybalay Local Government Unit, Development Academy of the Philippines, City Environment and Natural Resources Office, PhilRice, and KDI School in Korea. Further, the LTLO processed the required documents for CMU membership to professional organizations and institutions like; International Association of
Multidisciplinary Research (IAMURE), Philippine Association of Institutions for Research (PAIR) Inc., and Association of Teacher Education Institutions in Mindanao (ATEIM) Inc.

On top of that, through this office, CMU was able to take part in the Covenant signing of Philippine Public Higher Education Reform in one of the Commission on Higher Education’s (CHED) activities on May 2012 in Manila. This was initiated by CHED and the Philippine President, Benigno Simeon C. Aquino III along with the CMU President, Dr. Maria Luisa R. Soliven and other State Universities and Colleges (SUC) Presidents throughout the country.

Main Library’s Newly Purchased Books

Part of sustaining the students’ academic excellence is enhancing library services by acquiring new books needed for students’ learning and development. Hence, this year, the University Library purchased books worth PhP 1,793,033.73 from the Special Trust Fund with 368 titles. A total of PhP74,700 and PhP 233,652 were allocated for newspapers and renewed journal subscription respectively. The University Library also received books, journals, magazines and multimedia through donations from various personalities and agencies.
Awards and Recognitions Received

In 2012, CMU received various awards and recognitions from local, regional, and national agencies.

These awards and recognitions include the Blood Services and Platinum Award from the Philippine Red Cross in yielding 522 units of blood donation for the past six years, Sandugo Kabalikat Award from the Department of Health Center for Health Development in Northern Mindanao for CMU’s unwavering support and contribution on the promotion of blood donation, Plaque of Recognition from the Northern Mindanao Consortium for Agriculture, Resources, Research and Development (NOMCARRD) for hosting the consortium’s 24th Regional Symposium for Research and Development Highlights (RSRDH), a Certificate of Recognition from the Department of Labor and Employment (DOLE) for the university’s contribution in the implementation of the DOLE’s programs and projects specially on the promotion of the Anti Child-Labor Act and the Associate in Sugarcane Production and Management (ASPM) scholarships, participation on career guidance and counselling; a Certificate of Recognition from RFM Foundation,
Inc. for CMU officials and faculty who inculcated in their students a deep sense of commitment to superior academic performance, servant leadership, and social responsibility anchored on good moral values as exemplified by Maria Janua B. Polinar who qualified as one of the Ten Outstanding Student in the Philippines (TOSP); the Highest Fun Remittance Award from the local government of Maramag, Bukidnon for the Alay Lakad 2012, a Certificate of Recognition from the Department of Budget and Management (DBM), Procurement Service Region X for being the top purchaser of the Provincial Sub-depot in Valencia City for 2012; and a Certificate of Participation from the Commission on Higher Education (CHED) for CMU’s participation in the State Universities and Colleges (SUC’s) Product Fair 2012.

**CMU Planted Tomorrow’s Shades . . .**

Central Mindanao University (CMU) once again showed their love for the community by planting thousands of trees on July 3, 2012.

This ecological venture was in compliance with Section 32 of Republic Act 10155 requiring all agencies of the government to plant trees in lands of the public domain of the National Greening Program (NGP) under E.O. No. 26, series of 2011. Moreover, this was in response to the Department
of Environment and Natural Resources’ (DENR) call for CMU as one of the State Universities and Colleges (SUCs) recognized to serve as an arm for the 2011-2016 NGP with the generous aim of raising high quality seedlings of our native tree species.

As an activity that supports the university’s thrust of “Green CMU: Sustainability Oriented University”, a memorandum was released to assure full support from the entire university. A total area of 2.11 hectares of Mt. Kalayo or “Musuan Peak” was planted with 9,444 seedlings of white lawaan, narra, kalomata, kalumpit, and other locally grown trees about 10,000 benevolent individuals.

This noble activity was realized through the collaborative efforts of the College of Forestry and Environmental Science, Forest Resources Development Division of the UIGP, College of Forestry and Natural Resources of the University of the Philippines – Los Baños (UPLB), Philippine Tropical Forest Conservation Foundation, Inc (PTFCF), and the Philippine Forestry Education Network (PFEN).

This venture was part and parcel of the accomplishment of the university and the nearby community as well. This short and simple act is indeed a great act of loving beyond oneself.

Counter clockwise. CMU officials, faculty, staff and students join in the tree planting activity held at Mt. Musuan on July 3, 2012.
True indeed that no matter where your feet may take you, your heart will certainly bring you back home...

This concluding statement summed up the success of the unified Foundation Anniversary and Alumni Homecoming on September 12-14, 2012 with the theme “Transforming Challenges into Opportunities”.

Various activities were held to commemorate the beginnings of Central Mindanao University as well as to welcome back the alumni whose college lives were shaped by the university. These included the Ecumenical Mass, wreath-laying in honor of the founders and deceased alumni, parade, speeches by the deans on “Remembering the Start of CMU Colleges”, campus tour and viewing of student organizations displays, tree planting at the Fulbright Garden, get-together with the respective colleges, and the Rodeo Festival.

On September 13, an Alumni Night was sponsored by the CMU Alumni Association Inc. (CMUAII) to honor and bring into the limelight the Golden (Batch 1962) and Silver (Batch 1987) Jubilarians of the University. The event became more memorable as the alumni dazzingly relived the picturesque scenes of the past in their gold and silver accented Filipiniana attire.

The accomplishments of the university with the support of its people contributed much to what CMU is at present.

The Office of the Alumni Relations (OAR) is under the Office of the President that links the administration, alumni and the rest of the academic community. This year, the OAR developed an Alumni Database encompassing the records of CMU graduates from 1958 to 2005.

It also played an important role in planning the university activities involving the alumni. One of its
A glimpse of the successful celebration

From top to bottom: Parade around the campus, opening program where the University President, Dr. Soliven gives her message; CMU Bidlisiiw presents a dance number; Dr. Soliven gives token to the guest of honor; CMU officials and alumni with Dr. Jesus Antonio G. Derije, President, USM and Hon. Alice P. Resus, Municipal Mayor, Maramag, Bukidnon join the release of 102 balloons to commemorate the 102 years of CMU’s existence; Rodeo Festival (top) and love offering during the Ecumenical Mass (right).

accomplishments was the University Alumni Homecoming and Unified Foundation Celebration. The OAR planned the events for the homecoming of the Silver (class 1987) and Golden (class 1962) Jubilarians on September 12 to 15, 2012.

The OAR Director represented the University President during the conduct of reunions, namely: University High School (UHS) Class 1980 at the University High School Social Hall on April 21, 2012. More than 50 alumni attended the gathering; Davao City and General Santos City CMU graduates’ reunion on November 27–28, 2012 at Agdao, Davao City that was attended mostly by 1960’s CMU graduates; CMU 70s Reload Alumni Group at Tagoloan, Misamis Oriental; UHS Batch 1987 reunion on December 27 to 29, 2012. The batch sponsored a free medical mission which was benefited by some indigent families in Sitio Mahayahay. These families received free medicines, had tooth extractions and consultation. The batch also donated drum sets to the University Laboratory High School Band.

The awardees holding their Plaques of Recognition (left to right) Ms. Melanie P. Medecilo, HS batch 1987 for Research and Development; Prof. Rosenio L. Anacleto, HS batch 1962 for Extension and Community Development; Dr. Guindolino R. Gerona and Dr. Wilfredo D. Ganas, DVM, batch 1987 for Entrepreneurship.
CMU President Serves
BEYOND THE FOUR WALLS . . .

“T

here is nothing more enriching than being a part of reputable organizations existing for superior and noble causes; And, being recognized for having the heart and ability to serve is indeed an achievement none can surpass”.

- The devastation of Sendong in Cagayan de Oro left people with shattered hopes with no idea where to start anew. To ignite again a flicker of hope for these people, the Gawad Kalinga (GK) Community Development Foundation, Inc., initiated the building of homes for the typhoon Sendong victims. The GK in coordination with both government and non-government organizations including private and public institutions envisions ending poverty for the 5 million families by 2024. Central Mindanao University (CMU) and GK have been partners since 2009 in building communities. To make significant contributions in nation-building, CMU participated in building houses themed as “GK Bayani Challenge 2012” held at Camaman-an, Cagayan de Oro City on April 9–14, 2012 represented by the university officials led by the President, Dr. Maria Luisa R. Soliven.

- The Philippine Rice Research Institute (PhilRice) is a government agency attached to the Department of Agriculture. It was created to help develop high-yielding and cost-reducing technologies so farmers can produce enough rice for all Filipinos. The CMU President, Dr. Maria Luisa R. Soliven, shares the same vision with PhilRice to have a self-sufficient, sustainable, and competitive rice economy through a responsive rice R&D system and a strong, innovative science- and technology. Hence, she was entrusted and appointed by President Benigno Aquino III as member of the PhilRice Board of Trustees recognizing her role in the Science Community.

- Dr. Maria Luisa R. Soliven, who is a member of the Mindanao River Basin Rehabilitation and Development (MRBRD) Technical Committee recently joined the combat in ensuring coherent, focused and integrated development and management of the Mindanao River Basin. It would facilitate the attainment of sustainable development and prevent and mitigate flooding and other disaster risks for its inhabitants and stakeholders. This committees also ensures sustainable living conditions and secures available natural resources inside the basin and the lives of the people living in the adjacent communities.
Central Mindanao University is striving to attain its new vision as a “A Global University for Sustainable Development”. A lot of new infrastructures is needed to support the intended development goals. However, the university still wants to preserve the current set-up of road system and the groupings of buildings intended for each college and for support services. Thus, all future infrastructures are planned in strategic locations for most efficient use.

The infrastructure projects that are planned in the next five years can be summarized into five areas:

- **Support to Instruction** - construction of additional buildings for new classrooms, lecture halls, audio visual rooms and laboratory rooms, and new buildings for new course offerings both for vertical and horizontal academic expansion;

- **Support to Research, Extension and Instruction** - construction of integrated laboratory and natural products laboratory buildings and an extension training center;

- **Support to Administration and Instruction** - construction of administration building for the College of Agriculture, additions to the main Administration Building, additional hospital building, and additional library building;

- **Support to Production and Instruction** - construction of new buildings that will be used for new IGPs that will also meet practicum requirements of some students; and

- **Support to Utilities and Services** - improvement of the CMU water system and infrastructure to solve the perennial problem of flooding along the Taganibong Creek that damage residences, school buildings and lowland rice production fields.

**SUPPORT TO INSTRUCTION**

The proposed buildings to be constructed in the next five years to support instructions are the following:

**Completion of the New CAS Building**

The existing new CAS building will be completed to include a two-storey structure. This will accommodate lecture rooms, computer room, speech laboratory, audio-visual room, faculty offices and other required offices for a separate college. It is expected that a new College of Arts and Social Sciences will be developed out of the present College of Arts and Sciences.

**College of Information Science and Technology Building**

A new College of Information Science and Technology will be established to accommodate the BS in Information Technology and the offering of its allied degree and non-degree courses, including its graduate programs. This college will grow out of the present Institute of Computer Application currently attached to the College of Engineering. The proposed building will be constructed near the College of Engineering Complex.
College of Accountancy and Management Building

CAM will need a new building to accommodate its fast increasing enrolment. It is presently occupying the old College of Engineering Building. The new building will be a two-storey progressive structure that will eventually engulf the present building. Preliminary structure will start at the frontage of the existing building.

College of Mathematics and Natural Sciences

An additional building to reinforce the space requirement of the Science courses of the College of Arts and Sciences will be constructed at the back portion of the existing CAS building. The proposed building will be contiguous to the present CAS building with the existing fernery to be integrated to the structure.

Construction of a Covered Court

The proposed covered court will accommodate a basketball court and a volleyball court. This structure will be used for the physical activities of the students, including classes in Physical Education. This structure will be constructed in the north portion of the athletic grounds, near the Fulbright Garden and directly at the back of the Catholic Church.

SUPPORT TO RESEARCH, EXTENSION AND INSTRUCTION

Structures to be constructed will be used for both instruction and research. These include construction of laboratory rooms that would also serve as research rooms for the faculty. The construction of a new of training center will be for extension.

Integrated Engineering Laboratory

A new building to house the different laboratories of the College of Engineering will be constructed at the back portion of the College of Engineering building. This new building will support the laboratory requirements of the curricular offering of the college and the proposed additional engineering curriculum and its graduate degree courses.

Construction of Extension Training Center

The existing Farmers Training Center is too expensive and sophisticated for the use of ordinary homemakers and farmers for their training needs. Another training center will be established at the back portion of the Research and Extension Office to cater the needs of the farmers, homemakers, indigenous people. The building will be provided with training hall, dorm-type sleeping quarters, kitchen and dining areas for the prospective trainees.

SUPPORT TO ADMINISTRATION AND INSTRUCTION

These structures will be constructed to satisfy the area requirement for administrators and faculty offices for effective delivery of instruction.

College of Agriculture Administration Building

This building will accommodate the Offices of the College Dean, College Registrar, Research and Extension and faculty members including the department chairpersons. The building will also provide space for an audio-visual room, a multi-purpose hall and additional laboratory rooms. The spaces vacated by the faculty and currently used as offices will be renovated and used as additional classrooms. This building will be constructed in front of the current main Agriculture building.
**Additional Administration Building**

The current office space occupied by the different units in the existing administration building is insufficient. There is a need to bring the support offices closer to the other units in the administration in order to speed up the processing of documents needed in the operation of the university.

**Construction of Library Extension**

The current library space is limited for the requirements of the fast increasing population of students in CMU. The extension will accommodate the electronic library which will provide state-of-the-art facilities.

**Construction of Two – Storey Hospital Annex**

The current space available for the University Hospital cannot qualify for its upgrading to Level II Category. There is a need to add space for wards, private rooms, laboratory rooms and Specialized Doctors' Clinic.

**Construction of Covered Walks**

Buildings in CMU are separated from one another. Therefore, for more convenience for its growing population, there is a need to interconnect these buildings with covered walks.

**SUPPORT TO PRODUCTION AND INSTRUCTION**

These are structures which will house new IGPs that will cater to the students and non-CMU constituents.

**Construction of CMU Arcade**

The CMU Arcade will be constructed near the CMU Security Office and parallel to the Sayre Highway. It will provide spaces for internet cafés, a store to showcase products of the different units of the university, a coffee house and other IGPs. Its general purpose is to showcase CMU to the outside community and to provide the necessary utilities needed by the students.

**Construction of a Hotel**

The current facilities provided by the University Food and Lodging Services and the University Hostel have become limited to accommodate the number of clients participating in trainings, workshops and seminars in the Farmers Training Center. There is also a needed venue for the practicum of BS Hotel and Restaurant Management students. The proposed hotel will answer these needs and will be located in between the Catholic Church and the University Christian Church of the Philippines.

**SUPPORT TO UTILITIES AND SERVICES**

The CMU land area is large. The campus itself is already large and the population of Musuan where CMU is located is increasing every year. Water for domestic consumption is getting scarce while excess flood water is hard to manage during and after heavy rains. Investing to solve these problems is a necessity.

**Improvement of CMU Water System**

CMU is largely relying on the ground water supply that requires pumping so that it can be delivered to end users. There is a need to optimize its supply by constructing additional reservoir. The free flowing spring water available within the boundaries of CMU property is also not fully utilized. There is also a need to fully harness this resource by constructing catchment reservoir and additional pipes for storage in
reservoir and delivered to end users through gravity.

**Improvement of CMU Drainage System**

The old drainage system of CMU is affected by the smaller culvert across the Sayre Highway and the smaller pipes installed by the National Irrigation Administration to siphon the water from the Kibalagon Creek. The flow of this creek is affected by the irrigation canal that traversed it. In the northern side, the Sayre Highway was elevated as it crossed the Taganibong River. It is dam-like which could hamper the flow of water from that river during periods of flooding. There is a need to provide pro-active measures to minimize the effect of flooding. This can be met by:

**Construction of Catchment Ponds Near the Cattleya Residence Hall**

Runoff water coming from the elevated surface of the south western side of the campus will be stored temporarily in this man-made pond and gradually released to cross the Sayre Highway to minimize flooding in the Catholic Church Complex and the proposed Hotel. This will also require putting a sluice gate so that part of the flood water will be deposited in the Fullbright Garden. The proposed catchment pond can be used as boating area cum recreation for the CMU populace. Endemic fish species can also be cultured where people can fish for recreation.

**Development of Catchment Pond for Kibalagon Creek**

The natural catchment area for the Kibalagon creek can be developed by putting some embankment protection and dam structures at the outlet side that will catch flood water from the creek. The water will be gradually released through an automatic gate structure to minimize flooding in the Commercial Complex area and the neighbouring residences. This will also require tree planting in the sugarcane fields currently occupied by IP’s to minimize runoff.

**Design and Construction Flood Control Facilities along Taganibong River**

The floods occurring in the Taganibong plains is not mainly caused by the runoff water coming from the Taganibong watershed. It is caused by the man-made diversion canal from the bigger Kulaman River constructed in the late 70’s to continuously supply water in Taganibong River during the dry seasons. The diversion canal is now very large and excess water from Kulaman River will flow directly to Taganibong River causing overflow and flooding the Musuan Plain including the campus. There is a need to close this diversion canal and since the area is outside the jurisdiction of CMU, help and support from the provincial government and the national government agencies is needed for the design and construction of a dam structure to close the canal.
APPENDICES
Undergraduate degree programs

1. **College of Agriculture**
   Bachelor of Science of Agriculture
   Major in:
   - Agricultural Education
   - Agricultural Economics
   - Agricultural Extension
   - Animal Science
   - Crop Protection
   - Crop Science
   - Plant Breeding
   - Soil Science
   Bachelor of Science in Development Communication
   Bachelor of Science in Agribusiness Management
   Major in:
   - Crop Enterprise
   - Livestock Enterprise

2. **College of Arts and Sciences**
   Bachelor of Arts in English
   Bachelor of Arts in History
   Bachelor of Arts in Political Science
   Bachelor of Arts in Psychology
   Bachelor of Arts in Sociology
   Bachelor of Science in Biology
   Bachelor of Science in Chemistry
   Bachelor of Science in Mathematics

3. **College of Commerce and Accountancy**
   Bachelor of Science in Accountancy
   Bachelor of Science in Accounting Technology
   Bachelor of Science in Business Administration
   Major in:
   - Financial Management
   - Marketing Management
   - Operations Management
   Bachelor of Science in Office Administration

4. **College of Education**
   Bachelor of Science in Education
   Major in:
   - Biology
   - English
   - Filipino
   - General Science
   - Mathematics
   - Physical Education
   - Physics

5. **College of Engineering**
   Bachelor of Science in Civil Engineering
   Bachelor of Science in Agricultural Engineering
   Bachelor of Science in Electrical Engineering
   Bachelor of Science in Mechanical Engineering
   Bachelor of Science in Information Technology

6. **College of Forestry and Environmental Science**
   Bachelor of Science in Forestry
   Bachelor of Science in Environmental Science

7. **College of Home Economics**
   Bachelor of Science in Home Economics
   Major in:
   - Home Economics Education
   - Food Business Management
     - Food Processing Option
     - Food Service Option
   Bachelor of Science in Food Technology
   Bachelor of Science in Nutrition and Dietetics
   Bachelor of Science in Hotel and Restaurant Management

8. **College of Nursing**
   Bachelor of Science in Nursing

9. **College of Veterinary Medicine**
   Doctor of Veterinary Medicine

Graduate Degree programs

Master of Arts in Education (MAED)
   Major in Administration and Supervision

Master of Arts (MA)
   Major in:
   - H.E Education and H.E Extension English

Master of Arts in Language Education (MALE)
   Major in:
   - English
   - Filipino

Master of Language Education (Non-Thesis)
Master of School Mathematics (Non-Thesis)
Master of Education (Non-Thesis)

Master of Science in Forestry
   Major in:
   - Forest Biological Science
   - Forest Resources Management
   - Wood Science and Technology

Master of Science in Agricultural Economics
Master of Science in Agricultural Education
Master of Science in Agricultural Extension
Master of Science in Agribusiness Management
Master of Science in Agronomy
Master of Science in Animal Science
Master of Science in Biology Education
Master of Science in Development Communication
Master of Science in Entomology
Master of Science in Food Science
Master of Science in Horticulture
Master of Science in Mathematics Education
Master of Science in Mathematics
Master of Science in Plant Pathology
Master of Science in Soil Science

Master of Engineering
Major in:
- Agricultural Engineering
- Civil Engineering
- Electrical Engineering
- Mechanical Engineering

Master of Science in Biology
Major in:
- Ecology
- Genetics
- Morphology
- Physiology
- Taxonomy

Doctor of Philosophy in Biology
Doctor of Philosophy in Agricultural Economics
Doctor of Philosophy in Agricultural Education
Doctor of Philosophy in Agronomy
Doctor of Philosophy in Animal Science
Doctor of Philosophy in Entomology
Doctor of Philosophy in Horticulture
Doctor of Philosophy in Plant Pathology
Doctor of Philosophy in Soil Science
Doctor of Philosophy in Educational Administration
Doctor of Philosophy in Mathematical Sciences
Major in:
- Mathematics Education

Short-term Special Courses
Dairy Production and Management
Swine Production and Management
Associate in Sugarcane Production and Management

TESDA Competency Courses
Food and Beverage Services NC II
Commercial Cooking NC II
Food Processing NC II
Appendix 2.
List of Completed and On-Going Researches

Improvement of Corn as Food and Feeds and Sweet Sorghum as Forage Crops
N.B. Baldo

Boron and Calcium Application for Management of Yield, Fruit Quality and Phytophthora of Artificially Pollinated Durian (Durio zibethinus Murr.)
L.M. Cabahug

Integrated Pest Management (IPM) of the Natural Occurrence of Tomato Yellow Leaf Curl Virus (TYLCV) in Selected Barangays of Lantapan, Bukidnon
C.V. Bautista

Grain Spawn Viability of Oyster Mushroom (Pleurotus sujar-ajo) at Different Storage Conditions and Period
G.G. Saludares

Project: Morphology, Ecology and Conservation of Selected Threatened, Endemic, Rare and Economic Species of Vascular Plants in Mindanao
V.B. Amoroso

**Study 1.** Morphology and Ecology of Selected Threatened, Endemic, Rare and Economic Species of Flowering Plants
H.P. Lumista

**Study 2.** Morphology and Ecology of Selected Threatened, Endemic, Rare and Economic Species of Gymnosperms and Pteridophytes
V.B. Amoroso

**Study 3.** Conservation of Selected Threatened, Endemic, Rare and Economic Species of Plants
F. M. Acma

Physico-Chemical Properties of the Ribbed Smoked Sheets Produced by the CMU Rubber Production Project
G.J.D. Baltazar
E.O. Buncales

Phytochemical Components of Normal and Mutant “Makapuno’ Coconut (Cocos nucifera L.) Endosperms
R.Y. dela Cruz
J.G. Opiso

Project: The Average of the mth Power of the Lm Norms of Polynomials with Coefficients in -1, 0, 1 and -i, 0, i on the Boundary of the Unit Disc
A.L. Detalla

**Study 1.** The Average of the mth Power of the Lm Norms of Polynomials with Coefficients in -1, 0, 1 on the Boundary of the Unit Disc
N.C. Sieras
A.M. Penaso
Study 2. The Average of the mth Power of the Lm Norms of Polynomials with Coefficients in {-1, 0, 1} on the Boundary of the Unit Disc
A.L. Detalla
B.D. Peñalosa

Project: Capacity Development of Urban Governments for Social and Economic Services in the Province of Bukidnon
M.T. Sobradil

M.T. Sobradil
R.P. Guanzon

A.I. Jacobe
R.B. Casiro

Bukidnon Secondary Physics Teachers’ Alternative Views and Associated Mental Models on Simple DC Circuits
T.D. Taganahan

Project: Nurture and Nature: A Community-Based Project for Sustaining the Matigsalug Tribe’s Indigenous Language, Culture and Nature and Health Practices
E.D. Alfabeto

Study 1. Theoretical Constructs in the Matigsalug-Manobo Folk Literature: Its Implication to the Survival of the Tribe’s Language and Culture
E.D. Alfabeto
S.R.V. O. Dionaldo
L.L. Guimbao
O.P.P. Talle

Study 2. The Cultural and Traditional Constructs in the Songs and Dances of the Matigsalug Tribe in CADT Areas Bukidnon, Davao, and Cotabato
M.P. Arambala
A.B. Sususco
A.C.S. Calimbo

A.M. Bayron, Jr.
L.N. Romero
S.D. Alfabeto

Study 4. Reproductive Health Practices of Polygynous Families of Selected Matigsalug-Manobo Tribe in Sinuda, Bukidnon
D.J.S. Oledan
J.S. Valmorida
Appendix 2. List of Completed and On-Going Researches

Diversity of Insect Group Neuroptera, Auchenorrhyncha, Lepidoptera, and Odonata in Mt. Kiamo and Mt. Malambo
A.B. Mohagan
G.L. Galan
D.P. Buenavista

Emotional Intelligence, Cognitive Skills and Work Performance of Supervised-Field Experience Students of the Business Education Department of Central Mindanao University
T.F. Pepito
M.P.S. Sajulga

Inventory of Bryophyte Flora in Mt. Lumot, Misamis Oriental
A.G. Azuelo
L.G.Sariana

Project: Effectiveness of Instructional Materials in Mathematics, Statistics, and Methods of Research
N.I. Prado

Study 1. Effects of Instructional Material in Mathematics 1 and 3A (General Mathematics and High School Statistics) on the Performance of High School Students
D.A. Tan
J.B. Capuyan

Study 2. Development of Instructional Materials in Mathematics 2 and 3 (Intermediate Algebra and Trigonometry)
J.J. Tan
J.L. Paglinawan

Study 3. Instructional Materials in Methods of Research: Effects on Pre-Service Students Performance in Conducting Research
N.I. Prado
R.C. Orongan

Impact of Land Use on the Hydro-Geochemical Characteristics of the Sawaga Watershed of Malaybalay City, Bukidnon
E.M. Opiso

Design and Development of a Blower Test Rig
C.S. Alfarero
C.M. Verula, Jr.

Soil Organic Carbon Stock Assessment of Major Agricultural Land Uses in Bukidnon, Philippines
J.H.P. Patricio

Geospatial Analysis and Profiling of Plantation Forest in Central Mindanao University, Musuan, Bukidnon
G.R. Puno
M.J.A. Rojo
A.G.T. Bruno
Appendix 2. List of Completed and On-Going Researches

Project: Permanent Field Monitoring Plots (PFMP) for Sustainable Management, Conservation and Development of Forest Resources
A.M. Tulod

**Study 1.** GIS Assisted Tree Inventory and diversity Assessment of Two Permanent Field Monitoring Sites in Musuan, Bukidnon
A.S. Olpenda
G.R. Puno
M.J.A. Rojo

**Study 2.** Regeneration Dynamics of Tree Species in the Two Permanent Field Monitoring Sites in Musuan, Bukidnon
J.V. Casas
R.A. Marin
P.E. Sedenio

**Study 3.** Below-and-Aboveground Carbon Stocks Assessment of Two Permanent Field Monitoring Sites
A.M. Tulod
J.H.P. Patricio
L.F. Lacandula

Forestry/Environmental Education and Employment: Connecting the Dots Through Social Networking, Online Surveys, and Geographic Information System
M.A.P. Medina
R.G. Aguinsatan
J.H.P. Patricio

Compliance on the New Policies and Protocol on Essential Newborn Care in Bukidnon: An Assessment
P.V. Domagsang
D.G. Camatura

Drug Resistance Among Trypanosomaevansi Isolates Infecting Important Livestock in Mindanao
A.P. Dargantes

Gender Differences in Learning Style Preferences Among Veterinary Medicine Students
J.A. Escarlos, Jr.

Project: Analysis on the Structures and Dynamics of Women's Organizations in Bukidnon: Basis for University Center for Gender and Development (UCGAD) Initiatives
E.N. Mendoza

**Study 1.** Profiling of the Women's Organizations in Bukidnon
A.I. Jacobe
A.M. Cabacungan

**Study 2.** Assessment of the Needs and Capacities of Women's Organizations in Bukidnon
E.N. Mendoza
R.A. Duropan

Adaptability Trial cum Seed Increase of ICRISAT Pigeon Pea Lines/Varieties Under Musuan Condition
S.M.T. Dargantes
Ma. S.M. Paulican
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<th>Title/Name of Award</th>
<th>Date Awarded/Venue</th>
<th>Awarding Body/Agency</th>
<th>Category (International, National, Local)</th>
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<td>Victor B. Amoroso</td>
<td>Asian Best Oral Research Presenter Ecosystem Category (Plants) – Diamond (1st Place)</td>
<td>April 27-28, 2012</td>
<td>Liceo de Cagayan University, CDO</td>
<td>2nd Asian Journal of Biodiversity Professional Lectures/ Liceo de Cagayan University</td>
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<td>Rggie Y. dela Cruz</td>
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<td>Alnar L. Detalla</td>
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<td>Braullo D. Peñalosa</td>
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<td>Alma B. Mohagan</td>
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### Appendix 4
Index of Acronyms

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<th>Description</th>
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<tr>
<td>AACCUP</td>
<td>Accrediting Agency of Chartered Colleges and Universities in the Philippines</td>
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<tr>
<td>ABSFI</td>
<td>Associated Bukidnon Sugarcane Farmers, Inc.</td>
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<td>ACEF-EXECOM</td>
<td>Agricultural Competitiveness Enhancement Fund – Executive Committee</td>
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<td>ADDU</td>
<td>Ateneo de Davao University</td>
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<td>AES</td>
<td>Agricultural Experiment Station</td>
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<td>AFNR</td>
<td>Agriculture, Fisheries and Natural Resources</td>
</tr>
<tr>
<td>AFNRE</td>
<td>Agriculture, Fisheries Natural Resources and Environment</td>
</tr>
<tr>
<td>ARC</td>
<td>Agrarian Reform Communities</td>
</tr>
<tr>
<td>ASPM</td>
<td>Associate in Sugarcane Production and Management</td>
</tr>
<tr>
<td>BETU</td>
<td>Biodiversity Education Training Unit</td>
</tr>
<tr>
<td>BIDA</td>
<td>Barangay Integrated Development Approach</td>
</tr>
<tr>
<td>BIDANI</td>
<td>Barangay Integrated Development Approach for Nutrition Improvement</td>
</tr>
<tr>
<td>BLFU</td>
<td>Biodiversity Laboratories and Facilities Unit</td>
</tr>
<tr>
<td>BMIS</td>
<td>Barangay Management Information System</td>
</tr>
<tr>
<td>BMRDO</td>
<td>Business Management and Resources Development Office</td>
</tr>
<tr>
<td>BOR</td>
<td>Board of Regents</td>
</tr>
<tr>
<td>BPI</td>
<td>Bank of the Philippine Island</td>
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<tr>
<td>BRDU</td>
<td>Biodiversity Extension and Public Awareness Unit</td>
</tr>
<tr>
<td>BRU</td>
<td>Biodiversity Research Unit</td>
</tr>
<tr>
<td>CEBREM</td>
<td>Center for Biodiversity Research and Extension in Mindanao</td>
</tr>
<tr>
<td>CEC</td>
<td>Continuing Education Center</td>
</tr>
<tr>
<td>CHED</td>
<td>Commission on Higher Education</td>
</tr>
<tr>
<td>COMBASUDEP</td>
<td>Community-Based Sustainable Development Program</td>
</tr>
<tr>
<td>CPPD</td>
<td>Cereal Production and Processing Division</td>
</tr>
<tr>
<td>CWTS</td>
<td>Civic Welfare Training Service</td>
</tr>
<tr>
<td>DA-ATI</td>
<td>Department of Agriculture–Agricultural Training Institute</td>
</tr>
<tr>
<td>DAP</td>
<td>Development Academy of the Philippines</td>
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<tr>
<td>DAR-ARCESS</td>
<td>Department of Agrarian Reform–Agrarian Reform Community Connectivity and Economic Support Services</td>
</tr>
<tr>
<td>DAVCO</td>
<td>Davao Agri–Ventures Corporation</td>
</tr>
<tr>
<td>DENR-PAWB</td>
<td>Department of Environment and Natural Resources–Protected Areas and Wildlife Bureau</td>
</tr>
<tr>
<td>DMFI</td>
<td>Del Monte Foundation Incorporated</td>
</tr>
<tr>
<td>DOST</td>
<td>Department of Science and Technology</td>
</tr>
<tr>
<td>DOST-PCHRD</td>
<td>Department of Science and Technology – Philippine Council for Health Research and Development</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Tourism</td>
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<tr>
<td>ENRO</td>
<td>Environment and Natural Resources Office</td>
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<tr>
<td>ERDS</td>
<td>Ecosystem Research and Development Services</td>
</tr>
<tr>
<td>FBCRD–IADP</td>
<td>Farmers Bayanihan Center for Rural Development–Integrated Agricultural Development Project</td>
</tr>
<tr>
<td>FITS</td>
<td>Farmers Information and Technology Service</td>
</tr>
<tr>
<td>FMO</td>
<td>Financial Management Office</td>
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</table>
### Appendix 4. Index of Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>FRDPD</td>
<td>Forest Resources Development Production Division</td>
</tr>
<tr>
<td>FSNI</td>
<td>Food Security for Nutrition Improvement</td>
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<tr>
<td>FTC</td>
<td>Farmers Training Center</td>
</tr>
<tr>
<td>GK</td>
<td>Gawad Kalinga</td>
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<tr>
<td>HRMIS</td>
<td>Human Resource and Management Information System</td>
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<tr>
<td>HRMO</td>
<td>Human Resource Management Office</td>
</tr>
<tr>
<td>IAMURE</td>
<td>Inc., and Association of Teacher Education Institutions in Mindanao</td>
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<tr>
<td>ICRISAT</td>
<td>International Crops Research Institute for the Semi-Arid-Tropics</td>
</tr>
<tr>
<td>ICU</td>
<td>Information Communication Unit</td>
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<tr>
<td>IEC Materials</td>
<td>Information, Education and Communication Materials</td>
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<tr>
<td>IMDC</td>
<td>Instructional Materials Development Center</td>
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<tr>
<td>KIMPC</td>
<td>Kaliangan Irrigators Multipurpose Cooperative</td>
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<tr>
<td>KU</td>
<td>Kasetsart University</td>
</tr>
<tr>
<td>LDCU</td>
<td>Liceo de Cagayan University</td>
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<tr>
<td>LGU’s</td>
<td>Local Government Units</td>
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<tr>
<td>LPFD</td>
<td>Livestock, Poultry and Fisheries Division</td>
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<tr>
<td>LTLO</td>
<td>Linkages and Technology Licensing Office</td>
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<tr>
<td>LTS</td>
<td>Literacy Training Service</td>
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<tr>
<td>MASCUF</td>
<td>Mindanao Association of State Colleges and Universities Foundation</td>
</tr>
<tr>
<td>MASIPAG</td>
<td>Magsasaka at Siyentista Tungo sa Pag-unlad ng Agrikultura</td>
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<tr>
<td>MIS</td>
<td>Management Information System</td>
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<tr>
<td>MMSU</td>
<td>Mariano Marcos State University</td>
</tr>
<tr>
<td>MMZBG</td>
<td>Mt. Musuan Zoological and Botanical Garden</td>
</tr>
<tr>
<td>MOA</td>
<td>Memorandum of Agreement</td>
</tr>
<tr>
<td>MRBRD</td>
<td>Mindanao River Basin Rehabilitation and Development</td>
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<tr>
<td>MSU – IIT</td>
<td>Mindanao State University– Iligan Institute of Technology</td>
</tr>
<tr>
<td>NCHU</td>
<td>National Chung Hsing University</td>
</tr>
<tr>
<td>NEDA</td>
<td>National Economic Development Authority</td>
</tr>
<tr>
<td>NIVNaVRI</td>
<td>National Veterinary Research Institute</td>
</tr>
<tr>
<td>NIVR</td>
<td>National Institute for Veterinary Research</td>
</tr>
<tr>
<td>NOMCARRD</td>
<td>Northern Mindanao Consortium for Agriculture and Resources Research and Development</td>
</tr>
<tr>
<td>NOMIARC</td>
<td>Northern Mindanao Integrated Agriculture Research Center</td>
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<tr>
<td>NORMINCEERD</td>
<td>Northern Mindanao Consortium for Industry Energy &amp; Engineering Research Development</td>
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<tr>
<td>NorMinCoHRD</td>
<td>Northern Mindanao Consortium for Health &amp; Development</td>
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<tr>
<td>NRCP</td>
<td>National Research Council of The Philippines</td>
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<tr>
<td>NRM</td>
<td>Natural Resources Management</td>
</tr>
<tr>
<td>NSF</td>
<td>National Science Foundation</td>
</tr>
<tr>
<td>NSIC</td>
<td>National Seed Industry Council</td>
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<tr>
<td>NSTP</td>
<td>National Service Training Program</td>
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<tr>
<td>NUOL</td>
<td>National University of Laos</td>
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## Appendix 4. Index of Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Full Form</th>
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<tbody>
<tr>
<td>OWWA - OFWDP</td>
<td>Overseas Workers Welfare Administration – Overseas Filipino Worker Development Scholarship Program</td>
</tr>
<tr>
<td>PACSA</td>
<td>Philippine Association of Campus Student Adviser</td>
</tr>
<tr>
<td>PAIR</td>
<td>Philippine Association of Institutions for Research</td>
</tr>
<tr>
<td>PCAARRD</td>
<td>Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development</td>
</tr>
<tr>
<td>PCPD</td>
<td>Plantation Crop Production Division</td>
</tr>
<tr>
<td>PDNR</td>
<td>Participatory Domiciliary Nutrition Rehabilitation</td>
</tr>
<tr>
<td>PhilMECH</td>
<td>Philippine Center for Postharvest Development and Mechanization</td>
</tr>
<tr>
<td>PhilRice</td>
<td>Philippine Rice Research Institute</td>
</tr>
<tr>
<td>PPP</td>
<td>Production and Services, Private-Public Partnerships</td>
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<tr>
<td>RABA</td>
<td>Rapid Agrobiodiversity Appraisal</td>
</tr>
<tr>
<td>RACG</td>
<td>Regional Applied Communication Group</td>
</tr>
<tr>
<td>RDE</td>
<td>Research, Development and Extension</td>
</tr>
<tr>
<td>RMIS</td>
<td>Regional Management Information System</td>
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<tr>
<td>ROTC</td>
<td>Reserve Officer Training Corps</td>
</tr>
<tr>
<td>RRDCC</td>
<td>Regional Research and Development Coordinating Council</td>
</tr>
<tr>
<td>RSRDH</td>
<td>Regional Symposium for Research and Development Highlights</td>
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<td>SPD</td>
<td>Special Projects Division</td>
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<tr>
<td>STBF</td>
<td>Science and Technology Based-Farm</td>
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<tr>
<td>SUC</td>
<td>State University and Colleges</td>
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<td>TAMU</td>
<td>Texas A &amp; M University</td>
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<td>TDSU</td>
<td>Techno-Demo Services Unit</td>
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<tr>
<td>TESDA</td>
<td>Technical Education and Skills Development Authority</td>
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<tr>
<td>UCONN–EEB</td>
<td>Department of Ecology and Evolutionary Biology, University of Connecticut</td>
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<tr>
<td>UFLSD</td>
<td>University Food and Lodging Services Division</td>
</tr>
<tr>
<td>UH</td>
<td>University Hospital</td>
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<tr>
<td>UIGC</td>
<td>University Income Generation Council</td>
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<tr>
<td>UIGP</td>
<td>University Income Generating Program</td>
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<td>UM</td>
<td>University Museum</td>
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<td>UP Diliman</td>
<td>University of the Philippines – Diliman</td>
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<tr>
<td>UP–CIDS</td>
<td>University of the Philippines – Center for Integrative and Development Studies</td>
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<tr>
<td>UPDO</td>
<td>University Planning and Development Office</td>
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<td>UPLB</td>
<td>University of the Philippines – Los Baños</td>
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<tr>
<td>UP–TCAGP</td>
<td>University of the Philippines– Training Center for Applied Geodesy and Photogrammetry</td>
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<td>USC</td>
<td>University of San Carlos</td>
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<td>VCORD</td>
<td>Volunteers for Community Outreach and Resource Development</td>
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<td>VF–SA</td>
<td>Vestergaard Frandsen Sa</td>
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<tr>
<td>XU</td>
<td>Xavier University</td>
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<td>YOS</td>
<td>Year of Service</td>
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