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OFFICE OF THE VICE CHANCELLOR FOR RESEARCH AND EXTENSION

As the Institute made strides to establish its niche in the local and international research arena, the Office of the Vice Chancellor for Research and Extension (OVCRE) in 2010 continued to explore promising opportunities towards the realization of this vision.

The year 2010 was marked by a significant increase in interest and participation in R & E activities as evidenced, in particular, by the significant number of publications of research works in local and international journals, and research paper presentations both here and abroad.

Inspired by this positive response to its projects and activities, and using the insights it gained through the years, the OVCRE identified its Key Result Areas, and went off on a Strategic Planning Workshop on May 13-16, 2010 to set clear goals for 2011-2015.

The strategic goals OVCRE set for the next five years were in consonance with the Institute Vision Pillar: **Strong Research & Extension Program.**

The accomplishments of OVCRE for 2010 are collectively the achievements of the different departments and units that comprise it:

1 Department of Research (DR);

- 2 Department of Extension (DE);
- 3 Technology Application and Promotion Unit (TAPU); and
- 4 Multi-Media Information and Dissemination Unit (MMIDU).

These different units may have their own defined mandate, but they all work together to achieve the goals of OVCRE.





A number of policies were initiated, initiatives conceived and activities implemented during the year to encourage and spur further involvement in R&E efforts:

- The Professorial Chair Program was launched and Professorial Chair holders were named. Monetary incentives for research publications and research paper presentations were also given out.
- The Intellectual Property

Unit (IPU) at the OVCRE was created in June as approved by the MSU Board of Regents (BOR Res. 123 s. 2010) to manage and patent commercial research outputs.

- The Feasibility Study for the establishment of a Technology Business Incubator Facility (TBIF) at MSU –IIT was undertaken and the Business Plan for the project was prepared and submitted to DOST –

Philippine Council for Industry, Energy and Emerging Technology Research and Development (PCIEERD) to solicit funding support for the construction of the TBIF.

- Hosted the 17th annual Iligan National Writers Workshop (INWW) in May 2010. The INWW is one of the three national writer's workshops considered a must-attend training program for young and mid-career writers



writing in various tongues.

- The Gender and Development (GAD) Focal Point was constituted in 2010 and the VCRE was designated as the GAD Focal Person as a way of institutionalizing the Institute's commitment to mainstream gender and development in the Institute's programs, plans and activities (PPAs). Several PPAs have been identified for implementation.
- To celebrate the International Year of Biodiversity, MSU-IIT in partnership with the International Training Center of the Durrell Wildlife Conservation Trust, Jersey, United Kingdom organized

the **Island Species-Led Action Course (ISLA Iligan Philippines 2010)** at MSU-IIT on Sept. 13-23, 2010. This was a 10-day course intended to increase the capacity of island species conservationists working in the Philippines and the South East Asian sub-region to manage the recovery of threatened endemic species. Course Faculty were from international conservation institutions/ organizations with supporting local faculty.

Funding support was provided by the Durrell Wildlife Conservation Trust (WCT), Amazon Trust Jersey, and DICE, University of Kent, England.

- Supported Institute Climate Change advocacies and sponsored the **Celebration of Climate Change Advocacy Week**, February 22-26, 2010 at

the MSU-IIT campus in cooperation with the Cultural Development Office (CDO) of the Institute. This activity advocated for the reduction of our carbon footprints as a mitigation to environmental degradation.

- Initiated the Adopt-a-Tree Program. Donated *Lawaan*, *Falcata* and *Ilang-Ilang* seedlings from the National Power Corporation (NPC) and Iligan City Local Government Unit (LGU) were voluntarily adopted and nurtured by Institute personnel and barangay residents of Iligan City as a gesture of Climate Change or Global Warming mitigation. Each individual or barangay who adopted





the trees was made to sign a Deed of Adoption.

- Published 3 issues of the Institute Journal, **Mindanao Forum**, 2 issues of the Institute newsletter, **Gazette**, and the 16th INWW proceedings, **Celebrations: Places and Spaces**.
- Created the **Asia-Pacific Journal of Science, Mathematics and Engineering (APJSME)**, a specialized journal for science, mathematics and engineering fields of disciplines.
- Co-hosted the 9th Annual National Convention of the Philippine Society for the Study of Nature, Inc. with the theme “**Nature in Crisis: A Look at the Social Responsibility of Universities, Media, Government, Private Sector and Grassroots.**” on November 12-15, 2010, MSU-IIT, Iligan City with Senator Loren Legarda as the Keynote Speaker. It was a gathering of natural and social scientists, teachers, researchers, and other professionals involved in nature research. It serves as a forum for the presentation of research findings, sharing

- of knowledge, exchange of ideas, and discussion of topics related to nature research and education.
- The VCRE conducted several collaborative externally –funded research projects. One of the research projects undertaken with co-researchers Dr. Bracamonte and Prof. Arancio was given the **Best Poster award** for their paper “ **Biodiversity Assessment and Conservation of Critical Resources in Mt. Diwata Range, Agusan del Sur** “ presented during the National Conference on Research in Higher Education held on November 12-13, 2010 in Davao City.
- Most of the OVCRE personnel as well as the VCRE attended various capability building programs organized and hosted by local and international organizations during the year. Among the

international training programs attended were:

- “Patent Analysis Workshop for Certified Patent Analysts” at the Industrial Technology Research Institute (ITRI) College, Hsinchu, Taiwan R.O.C on February 27-March 14, 2010 – attended by Dr. Olga M. Nuñez.
- “Training of Trainers for University Development” at Witzenhausen Campus, Kassel University, Germany on August 21 to September 5, 2010- attended by Dr. Olga M. Nuñez.
- “Training on Patent Databases” organized by the World Intellectual Property Organization (WIPO) at the University of Santo Tomas on July 28-30, 2010 –attended by M. Esperanza P. Cruz

The accomplishments of the different offices of the OVCRE are detailed in the succeeding reports

DEPARTMENT OF RESEARCH

The Department of Research (DR) successfully implemented a number of maiden projects for the Institute in the area of Research and Development. Serving as a prime mover in regional S&T activities, the Department of Research continued to provide leadership and guidance in the various regional research and development consortia led by DOST.

Sustaining the momentum in enhancing the research culture in the Institute was one of the major tasks handled by the DR in 2010. Annual in-house review of research projects and student theses and dissertations, thematic lecture series, workshops in scientific paper writing for ISI publication for the more advanced researchers,

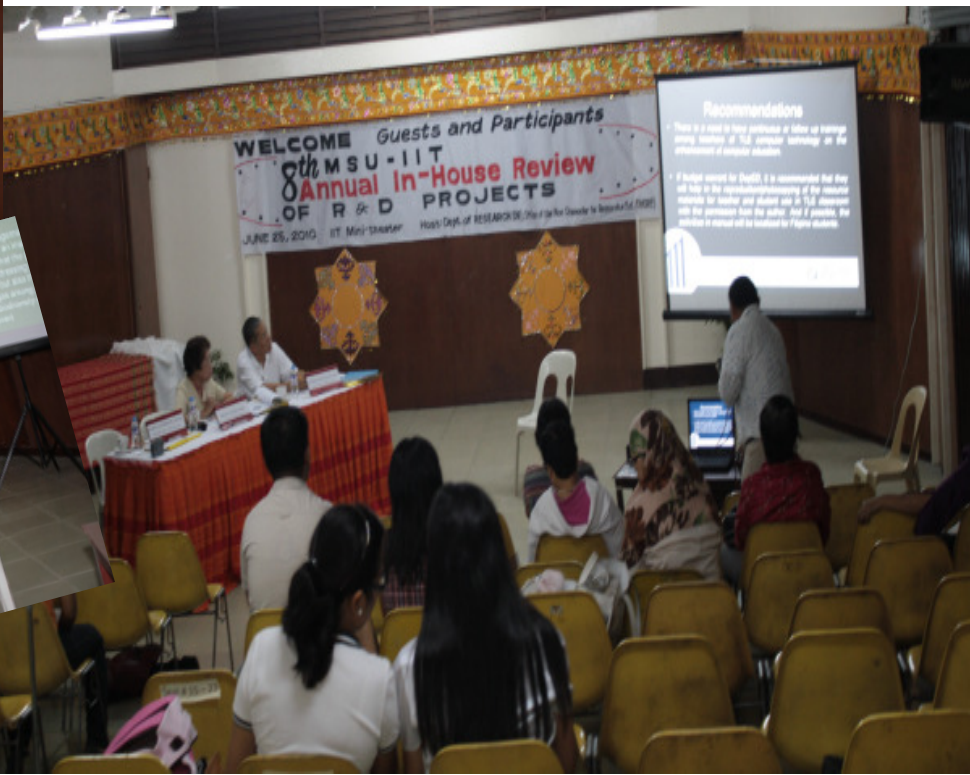
research proposal writing for the neophytes, and continuous consultations by faculty members with the DR, were among the notable activities.

The number of ISI and international refereed publications, as well as papers read in international conferences generated by IIT faculty continued to rise, now participated in by more Colleges. Several Institute-funded research projects continued to be managed by the DR ranging from linguistics, gender and human resource in the social sciences, to biodiversity and public health.

With eight international, 21 national, and 12 regional and local linkages in research-related endeavours, the Department of Research assures the Institute of continued relevant and dynamic research and development outputs.

- The prestigious Professorial Chair Program, the Institute's crowning glory for 2010 finally took off with four highly acclaimed research scientists in science and engineering as lecturers in the Professorial Chair Lecture Series of the said Program. Funds were provided by the Pilipinas Shell and Engr. Josue Bacolod.
- The 2010 draft Research Guidelines of the Northern Mindanao Consortium for Health Research & Development (NorMinCoHRD) was crafted through the guidance of the Director of Research serving as Chair of the Research Management Committee of the Consortium.
- Endorsed the current Dean and Assistant Dean from the College of Engineering, as well as the DR Special Assistant as Institute representatives to the newly created regional R&D consortium, the Northern Mindanao Consortium for Industry and





Energy Research & Development (NorMinCIERD).

- The Director of Research has been re-elected as Chair of the National Research Council of the Philippines Mindanao Cluster during its 8th General Membership Assembly in December 2010 held at MSU-IIT. This has allowed the Institute to remain among the most active institutions with the most number of NRCP members. IIT hopes to be the lead Mindanao institution in realizing the thrusts of the "ASEAN 2015: One Vision, One Identity, One Community" for the Philippines, a task given by the Philippine Government through DOST to the NRCP.
- Conducted the **8th Annual In-House Review of R&D Projects** and had a continuing assessment of the Institute's R & D thrusts and directions where R&D project results and findings are discussed as well as the giving out of recognition to best projects. Twenty R & D

results were presented involving professional R & D outputs, graduate theses and dissertations and also undergraduate theses in the natural sciences and social sciences.

- Hosted the **NRCP Mindanao Regional Cluster 8th General Membership Assembly**, a venue for discussion on the researches conducted by the NRCP Members and promote interaction between and among researchers and address the growing demand for knowledge, skills and innovations by sharing expertise, ideas and information.
- Conducted several **Lecture Series** during the year: *the 1st Professorial Chair Lectures* in August and September and the *Climate Change Lectures* in February. This is intended to disseminate R & D findings / results to the MSU-IIT

constituents, and other interested organizations

- Conducted, organized and hosted Seminars/ Workshops and Conferences-
 - **Workshops on "Tips in Manuscript Preparation and Submission to ISI Journals for the Natural Sciences and Engineering"** Dr. Wiliam Gruezo, Editor in Chief , Life Sciences Journal
 - **"1st Research Proposal Writeshop "** in the College of Nursing, MSU-IIT
 - **Annual Scientific Forum of the Philippine Society for Microbiology, Mindanao Chapter**
- Evaluated, monitored and funded research projects conducted at the Institute – Eight (8) on-going internally funded researches; two(2) on –going researches – both internally and externally funded; and one (1)

completed internally funded research

- Granted incentive awards for international paper presentations to 24 paper presentors and incentive award for papers published in international publications to authors and co-authors of 28 international publications.
- Drafted and submitted several policies for Board of Regents (BOR) approval in 2010:
 - BOR Resolution No. 124 series 2010 - Approval of the Amendment to BOR Resolution No. 237 series 2007 "Increasing the Cash Incentive Reward for ISI International Publications from a maximum of P30, 000 to P40, 000".
 - BOR Resolution No. 125 series 2010 - Approval of the Amendment to BOR Resolution No. 201 series 2008 "Increasing the Cash Incentive Reward for Oral Paper Presentation in International Conferences from P15,000 to P20,000".
 - BOR Resolution No. 14 series 2010 - Approval of the Amendment to BOR Resolution No. 201 series 2008 "To Include Poster Presentation in International Conferences
- The DR staff attended various capability building programs

RESEARCH PROJECTS/ PROGRAMS

A. ON –GOING RESEARCHES – INTERNALLY FUNDED

- Lexico-Statistical Relationships of Tausug & Higaonon Vocabulary

Darwisa A. Baguio, Ph.D.,
Rosario B. Dizon, Ph.D. &
Lorna E. Flores, Ph.D

- Development of IEC Materials on Vertebrate Fauna Towards Enhancing Public Awareness on Biodiversity Conservation and Management in Mt. Diwata , Agusan del Sur
Olga M. Nuñez, Ph.D
- Relevance and Effectiveness of IEC Materials on Flora and fauna resources Towards Biodiversity Management and Conservation of Mt. Diwata Range, Agusan del Sur
Nimfa L. Bracamonte, Ph.D
- Development of Flora IEC Materials and their Efficacy Towards on Vertebrate Fauna Towards Plant Diversity Management and Conservation in Mt. Diwata Range, Agusan del Sur: Study 1
Prof. Edgardo C. Aranico
- Employee- Centered Work Redesign: Its Impact on MSU-IIT Faculty and Staff Level of Stress, Job Engagement and Commitment, Job Satisfaction and Performance- Phase II
Cora E. Lim, Ph.D. & Prof. Odessa May D. Escalona
- Rapid Mosquito Surveillance Mapping in Iligan City- Project 2
Franco G. Teves, Ph.D., Dipl. PAM
- Gender Mainstreaming in Local Governance : Focus on the Cities in

Northern Mindanao
(2004-2009)

Elaine M. Baulete &
Darwin J. Manubag

- Growth and carrageenan yield of *Kappaphycus alvarezii* (Doty) Doty in *Kolambugan, Lanao del Norte*
Maria Luisa S. Orbita, Ph.D. & Anna Arlene A. Eya

B. ON –GOING RESEARCHES – BOTH INTERNALLY AND EXTERNALLY FUNDED

- Taxonomic and ecological Study on the Herpetofauna, Chiroptera (Bats), in Karst Limestone Habitats in Various Philippine Islands, with a Database on Herpetofauna, Chiroptera and macroinvertebrates
Olga M. Nuñez, Ph.D
- . Growth and Development, Population Dynamics Responses of *Aedes sp.* Mosquito to Increase Ambient Temperatures Phase I
Franco G. Teves, Ph.D., Dipl. PAM

C. COMPLETED RESEARCHES – INTERNALLY FUNDED

- Tri-Lingual Cultural Dictionary of the Bukidnon- Higaonon in Tankulan
Darwisa A. Baguio, PH.D., Rosario B. Dizon, Ph.D. & Lorna E. Flores, Ph.D

INCENTIVE AWARDS

A. INCENTIVE AWARD FOR INTERNATIONAL PAPER PRESENTATION

Awardee	College	Title of International Paper Presented	Amount of Award Granted	Date Granted
Prof. Rabby Q. Lavilles	SCS	“Enrolment Forecasting for School Management System” presented during the 2010 International Conference on Computer and Soft Modelling (ICCSM 2010) Manila, Philippines on Dec. 4-5, 2010	20,000.00	Dec. 20, 2010
Prof. Adelfa C Silor, Ed. D.	CED	“Hypermedia Supports Students Reading Comprehension” presented during the 2010 Asian Literacy Conference on Nov. 3-5, 2010 at Centennial Hall, Manila Hotel, Manila.	20,000.00	Dec. 9, 2010
Prof. Pamela F. Resurreccion	CBAA	“Determinants of Entrepreneurial Attitudes and Intentions among High School Students in Iligan City, Southern Philippines” presented during the 2 nd International Conference on Entrepreneurship (ICE 2010) on October 11-12, 2010 at Vistana Hotel, Kuala Lumpur, Malaysia.	20,000.00	Dec. 9, 2010
Prof. Lucilyn D. Lahoylahoy	CSM	“Street Food Vending in Iligan City, Philippines: An Evaluation of Potential Risks of Contaminated Food in Public Health” presented during the First International Conference on Environmental Pollution, Restoration and Management on March 1-5, 2010 at Ho Chi Mihn City, Vietnam	20,000.00	Dec. 9, 2010
Prof. Olga M. Nuñez, Ph. D.	CSM	“Avifaunal Diversity and Endemism in Mt. Diwata Range, Mindanao, Philippines” presented during the 6 th International Conference on Biology Sciences on November 10-11, 2010 at the Conference Center, Tanta University, Tanta, Egypt.	20,000.00	Dec. 9, 2010
Prof. Jamail A. Kamlian, Ph. D.	CASS	“The Secessionist Movement in Southern Philippines: Prospects and Challenges in Negotiating for Mindanao Peace Process” presented during the 2 nd International Philippine Studies Conference Epochal Tsukuba, Tsukuba, Japan	20,000.00	Dec. 9, 2010
Prof. Marcelo P. Salazar, D.M.	Chancellor	“The Impact of ICT Literacy and Organizational e-Readers: Factors in the Success of Information System implementation in a State University Setting” presented during the 6 th International Conference on e-Governance (ICEG 2010) on September 30 to October 1, 2010 at the Cape Peninsula University of Technology, Cape Town, South Africa.	20,000.00	Oct. 21, 2010