



## FIRST RESEARCH MONTH CELEBRATION

January —  
December 2012

The Research and Development Services Office officially led by Dir. Benigno P. Legamia Jr., Ph. D. along with the RDSO Staff spearheaded the month-long Research Celebration last November 2012 which brought out “the best” among the exhibited technology—generated projects of DHVTSU faculty and student researchers duly accorded cash incentives. Highlights of the activities include essay writing, poster making, quiz bowl and the awarding of “The Outstanding Researcher of the Year” to Prof. Adriano B. Singian, currently the RDSO Assistant Director and the “Most Research—Oriented Unit of the University to the College of Education. Also featured was the launching of the “Revised Research Manual and the Manual of Standards for Research .

This gathering of “great minds” was conceptualized as one vital Research Capability Building Activity geared towards establishing the Culture of Research in the University. DOST III Regional Director Victor B. Mariano and DHVTSU President Enrique G. Baking graced the occasion and formally “cut the ribbon” to signal the start of all the activities lined up for the DHVTSU Inventions, Contests and Exhibits (DICE) held at the University Gymnasium.



### Inside this issue:

*DHVTSU RDSO Soaring High...Internationally* 2

*DHVTSU Inventions Contests Exhibits* 3

*2nd Student Local In House Review* 3

*URET Research Policies* 4

*RDSO in Action* 4

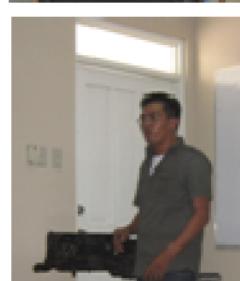
## The 9th University In House Review

The 9th University In—House review was conducted last November 16, 2012. A total of fifteen (15) papers and projects were presented, five (5) technology generated and ten information for dissemination.

Also included in the list were feasibility studies among others added to the entire development spectrum showing the technical mastery and competence of the DHVTSU faculty, staff and studentry that pave the way for technological changes and innovations in Pampanga and the entire region.

Every aspect of each presentation proved successful with the ability and capacity to build, develop and modify outputs for continuous improvements of research processes and outcomes.

“Establishing the Culture of Research at DHVTSU”, paper conceptualized by the RDSO staff: Dir. Benigno P. Legamia, Maria Lourdes O. Navarro, Ms. Dynah D. Soriano, Maria Norwina S. Martin (Information for Dissemination Category) presented by Ms. Mina G. Galura and the Development of a Modified Colored Television Simulator Trainer by Mr. Irwin C. Nicdao ( Technology Generated Category triggered the roster of project presentations respectively.



*Any intelligent fool can make things bigger, more complex, and more violent. It takes a touch of genius -- and a lot of courage -- to move in the opposite direction.*

Albert Einstein (1879-1955)



DHVTSU—RDSO Soaring High internationally

Several research fora sponsored by various organizations (regional, National, and international conferences were participated by DHVTSU Faculty and Staff Researcher where some have “ taken home the bacon for the university.

A. REGIONAL FORA

1. Typology on Teachers’ Bumpy Moments: A Coherent View of Teachers on Selected Public and Private Universities”

Presenter : Dynah D. Soriano
Sponsor : SUCTEA Region III
Venue : Tarlac State University
Tarlac City
Date : August 27, 2012

2. Development of a 500 watts Low Head type Pico-Hydro—Electric Generating System

Presenters : Prof. Adriano B. Singian
Dir. Benigno P. Legamia Jr.
Engr. Edgardo M. Santos
Sponsor : IIEE Philippines,
Venue : Stotsenberg Convention Center,
ClarkField, Pampanga
Date : October 4-6, 2012



B. NATIONAL FORA

1. Development of a 500 watts Low Head type Pico-Hydro Electric Generating System

Presenter : Prof. Adriano B. Singian
Sponsor : Research and Educational Development
Training Institute (REDTI)
Venue : Kapis Mansions
Capiz, Roxas City
Date : August 29-31, 2012

2. Development of Support Network Facilities for the Improvement of the Ecological and Hydrological Sanctuary Of Candaba Pampanga

Presenter : Dir. Benigno P. Legamia Jr.
Pres. Enrique G. Baking
Sponsor : Research and Educational Development
Training Institute (REDTI)
Venue : Kapis Mansions
Capiz, Roxas City
Date : August 29-31, 2012

3. Design and Fabrication of a Reconfigurable Pastries and Cookies Molding Machine

Presenter : Dir. Francio T. Fernandez
Sponsor : Research and Educational Development Training
Institute (REDTI)
Venue : Kapis Mansions
Capiz, Roxas City
Date : August 29-31, 2012

4. Beyond the Taste of the Mother Tongue: Capampangan Literacy and its Socio-Cultural Pedagogical Implications of the Preservation of the Capampangan Culture

Presenter/s : Abel D. Soto
Mina G. Galura
Ma. Lourdes O. Navarro
Dynah D. Soriano
Sponsor : Research and Educational Development Training
Institute (REDTI)
Venue : Hotel Supreme, Baguio City



C. INTERNATIONAL FORA

1. Development of a Modified Solar Powered Acrator

Presenter : Prof. Adriano B. Singian
Dir. Benigno P. Legamia Jr.
Dir. Francio T. Fernandez
Sponsor : International Society for Southeast Asian
Agricultural Sciences (ISSAAS)
Venue : Pampanga Agricultural College
Magalang, Pampanga
Date : September 10-11, 2012

2. Harnessing Renewable Energy through the Pico-Hydro Technology: The Pampanga Experience

Presenter/s : Pres. Enrique G. Baking, Ed.D.
Dir. Benigno P. Legamia Jr.
Sponsor : 2012 International Conference on Inter—
disciplinary Research Innovation (ICIRI)
Venue : La Consolacion University Philippines
Date : December 4-6, 2012

3. “Development of Support Network Facilities for the Improvement of the Ecological and Hydrological Bird Sanctuary of Candaba Pampanga,”

Presenter : Dir. Benigno P. Legamia Jr.
Sponsor : 2012 International Conference on
Interdisciplinary Research Innovations (ICIRI)
Venue : La Consolacion University Philippines
Date : December 4-6, 2012

4. Design and Fabrication of a Reconfigurable Pastries and Cookies Molding Machine

Presenter : Dir. Francio T. Fernandez
Sponsor : 2012 International Conference on
Interdisciplinary Research Innovations (ICIRI)
Venue : La Consolacion University Philippines
Date : December 4-6, 2012

5. Development and Fabrication of a Poly-phase Induction Motor Trainer 1

Presenter : Prof. Armando D. Macaspac
Sponsor : 2012 International Conference on
Interdisciplinary Research Innovations (ICIRI)
Venue : La Consolacion University Philippines
Date : December 4-6, 201

6. Development and Testing of a Remote Water Quality Monitoring Systems

Presenter : Engr. Ma. Teresa Abellera
Sponsor : 2012 International Conference on
Interdisciplinary Research Innovations (ICIRI)
Venue : La Consolacion University Philippines
Date : December 4-6, 2012

7. Modified Solar Power System for Exterior Lighting Utilization

Presenter : Prof. Adriano B. Singian
Sponsor : 2012 International Conference on
Interdisciplinary Research Innovations (ICIRI)
Venue : La Consolacion University Philippines
Date : December 4-6, 2012

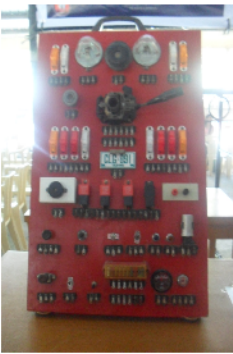




dhvtsu inventions contests and exhibits

Student research outputs from various colleges of the university served to highlight the Research Month Celebration, which were exhibited at the University Gymnasium, a major accomplishment for SY 2012—2013 by the Research and Development Services Office (RDSO), and considered a “first of a kind” in DHVTSU R & D history prior to the conduct of the 2013 DOST III Regional Inventions, Contests and Exhibits (RICE).

The DICE exhibitors have shown ingenuity through their innovative concepts, sharing intelligent technical expertise which ultimately provided a competitive advantage in the field of Science and Technology. Conversion of knowledge into action through inventions, contests and exhibits added value to existing processes and methods.



2nd University Local In House Review

The 2nd Student Local In—House Review was conducted last September 17—21, 2012. A huge assembly of participating students at DHVTSU in the 2<sup>nd</sup> Local In – House Review of their research projects was proven a successful in its development and outcome. Student contributions and involvement of the vast majority has made a measurable impact to create a culture of research among the studentry.

Topping the best among the biggest number of student participation to this “1st Student Local In—House Review are the students from College of Industrial Technology (CIT) followed by those from the College of Education (COE), Mexico Campus, College of Business Studies (CBS), College of Engineering and Architecture (CEA) and the Laboratory High School (LHS) and the College of Computer Studies.

All presented projects and papers in Methods of Research served as the exhibit entries for the 2012 DICE and were judged accordingly by

Continued to page 4



A. Outstanding Researcher of the Year

Adriano B. Singian

B. Most Research—Oriented Unit

College of Education

C. Outstanding Utility Model

1st Place—Development of a Magnetic Fan

Proponents: Chris Mark J. Cosme, Percival T. David, Christian G. Saga Godson M. Serrano,

2nd Place—Development and Fabrication of Wave Powered Electric Generator

Proponents: Marvin C. Labitag, Gilbert T. Payuan, Raymond F. Cordero, Danilo L. Maniti Jr.

3rd Place—Development of High Head—Type Water Wheel Electric Generating System

Proponents: Jay B M Pineda, Paul Kenneth F. Rivera, Ace P. Pangilinan John Erickson S. Garcia, John Carlo U. Pallasigui

B. Outstanding Industrial Design

1st Place—Development and Evaluation of Automotive Power Machine and Engine Rotator Used in Overhauling

Proponent: Arnel Gutierrez

2nd Place—Development of a Retractor Type Car Seat System

Proponents: Clivy R. Miranda, Mary Grace D. Cabungan, Jonnel V. Vitug John Arnel E. Suratos, Amfil Joe M. Mendoza

3rd Place—Introduction of an Improved Car Anti—Theft and Locking System

Proponents: Christian Reed Q. Coralde, Marvin B. Malig, Earvin Joseph D. Ocampo, Alvy D. Tuafio

C. Outstanding Creative Research

1st Place—Formulation of Modern Veggie Fruit Ice Cream

Proponents: Glaiza Marie R. Dizon, Rodgen D. Inaje, Rachelle P. Bonus, Jennifer Ann C. Roque

2nd Place—Utilizing Green Leafy Vegetable as Complementary Ingredients in Making Croquettes

Proponents: Jessica S. Galang, Rowena G. Ichan, Jovi R. Cortez, Sherlyn C. David

3rd Place—Introduction of Malunggay and Tomato ( Ice Cream)

Proponents: Michelle A. Pineda, Princess Ann T. Pamintuan, Dian M. Miclat

Shoe Wipes

Proponents:

D. SIBOL Awards

1st Place—Mini Air-Conditioner with Eco- Friendly Insect Repellant

Proponents: Allen S. Capati, Exequiel James Liwanag, Justin M. Mallari, Gian Joshua R. Ocampo, Mark Kenneth Panganiban, Mark Louie C. Sarmiento, Lorence Y. Basilio, Rohel D. Gamboa,, Kristian R. Honrade

2nd Place—Anti—Theft Bag Alarm System

Proponents: Christine Bartolome, Marjirel S. Cayan, Ferlin David Ana Jane M. David, Hana M. David, Micha I. Navarro Maria Angela P. Maglalang, Mary Anne R. Manabat, Al- mira Rose N. Pineda

E. Best Papers

A. A Proposed curriculum Outline for the Certificate in Physical Program: An Analysis

Proponents: Julius Ceasar Tolentino,

B. Enrolment System With On—Line Assessment for DHVTSU

Proponents: Jessa Marie P. Datu, Lady Jessica M. Balingit, Bunny T. Nabulneg, Melvin M. Chan

F. Best Booth Presentation

A. Development of Squash Chips

Proponents: Annie Bless Galang, Lucy Anne Maninang, Marjorie Miranda, Jeanie Shirl Nuqui, Virgil Olalia

B. Veggie Fruit Ice—Cream

Proponents: Glaiza Marie R. Dizon, Rodgen D. Inaje, Rachelle P. Bonus, Jennifer Ann C. Roque

G. Poster Making Contest

1st Place—Christian D. Cunanan

2nd Place—Kevin M. Sungcoco

3rd Place—Justin N. Mallari, Jerwin L. Tuazon

H. Essay Writing Contest

1st Place—Rico Martin L. Razon

2nd Place—John Paul Crisostomo

3rd Place—Vince Roigcl Gaviola





**University Research Extension & Training (URET) Research Policies:**

URET is the core coordinating body in monitoring & evaluating the Implementation of the various research, extension & training programs & projects. It enlists the assistance of technical experts when & where necessary.

All researches & trainings conducted by faculty & students should conform with the university thrusts geared toward government priority projects (i.e. CLIERDEC-Regional dev't: CHED & other gov't agencies)

Specifically, the RDSO tries to be effective & efficient in the management of its research activities: vis-à-vis:

- reflective & responsive to the development needs & objectives of the university in its service areas;
- identify specific research programs & activities based on identified priorities;
- all research undertakings should compliment research initiatives of other agencies; (i.e. DOST, CLIERDEC, CHED etc.)
- Implement monitoring of research programs;
- Evaluate, recommend and support research outputs dissemination

**2nd University Local.....**

Faculty evaluators with due monetary prizes.

All these “raw technology—generated” projects shall be transformed into “matured technologies” and later for patenting and ultimately for future commercialization with the technical intervention and professional expertise of respective faculty researchers of the different colleges of DHVTSU.

**RDSO in action**

**Course Preference Survey for the Opening of DHVTSU Porac Satellite Campus**

The Don Honorio Ventura Technological State University, through its Research, Extension and Training staff and representatives of the Local Government Unit of Porac, Pampanga conducted on 6 days survey from January 25-30, 2012 on course preferences to be initially offered at the DHVTSU Satellite Campus to be established at Pio, Porac come SY 2012-2013 which will temporarily utilize the municipal building situated at the Model Community at Barangay Tokwing.

A total number of two thousand four hundred fifty two (N = 2452) students from public and private secondary schools within the service area of the Municipality of Porac participated

in the said survey. Course preference on degree courses and non-degree courses/ technical courses was identified. On degree courses, the three most preferred courses were Bachelor of Hotel and Restaurant Management, Bachelor of Information Technology and Bachelor of Business Administration, respectively, while on technical courses it was Computer Programming, Commercial Cooking and Food and Beverages. This only implies that both on degree courses and technical courses, students have the same preference which is in line with food and service management and information communication technology.



identify the research areas for possible collaboration between Metal Industry Research and Development Center (MIRDC) and DHVTSU. URET officials and staff together with the faculty members from the College of Engineering and Architecture and College of Industrial Technology attended the said activity



**Consultative Meeting with DOST**

The RDSO initiated another consultative meeting with the officials and technical experts of DOST Regional Office III last March 07, 2012. The purpose of which was to identify concrete technology-based projects for possible DOST funding. Three (3) potential technology-generated projects were identified with high potentials in the market, namely: a.) *Design and Fabrication of Reconfigurable Molding Machine for Pastries and Cookies*; b.) *Design and Fabrication of Modified Cassava Chipping Machine*; c.) *Design and Fabrication of Upholstery Foam Shredding Machine*.

Selected faculty researchers from Engineering and Industrial Technology department in cooperation with the RDSO staff will be involved in the said project.

**URDC MEETINGS**

Series of meetings with the University Research and Development Council members were conducted. Papers and projects of faculty researchers were presented and scrutinized for possible funding.



**Research Coordinators Consultative Meeting**

The consultative meeting with the research coordinators of each college are the focus groups perceived as unique where theory, research and pedagogy converge.



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