



The **Philippine** **Men & Women** of Science

A compilation of bio-bibliographical information on men and women in the field of science and technology.

Volume **XXVII**

The Philippine Men & Women of Science

(Formerly Philippine Men of Science)

A compilation of bio-bibliographical information
of men and women in the field of science and technology

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Preface

The Philippine Men and Women of Science is one of the in-house publications generated from the Scientists Database, being maintained by the Science and Technology Information Institute (STII), the information arm of the Department of Science and Technology (DOST). It contains bio-bibliographical information of the living scientists who have excelled in their careers with their scientific and technical contributions published in various scientific and technical journals here and abroad.

This compilation aims to provide useful and effective baseline information needed by researchers, planners, policy makers and the general public who may need the expertise of these scientists.

The publisher is very grateful to all the scientists who have extended their wholehearted and invaluable cooperation in this undertaking as it is hoped that this information will be of help in our national development effort.

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Gender Male
Civil Status Single
Home Address PCARRD House No. 4, VSU Compd., VISCA, Baybay, Leyte

Organizational Affiliations

Associate Professor, Visayas State University, Visca, Baybay City, Leyte

Education

M.S. in Agriculture, University of the Philippines at Los Baños, College, Laguna 1987

Fields of Specialization

Agriculture

Forestry

Tissue Culture/Crop Physiology

Ornamental Horticulture/Remingoa

Association Membership

Associate Member, National Research Council of the Philippines (NRCP)

Honors / Awards

Best Research Poster (3rd Place), FCSSP, DAP Tagaytay City 2007 Je 15

Best R and D Poster (Agriculture Category), VICARP 2007 My 25

Exemplary Researcher Award of the Visayas State University, VSU 2009 Ag 11

Best R & D Paper (Basic Research Category), RDE 2009 JI 7-8

Finalist for Best Paper (Basic Research Category), VICARP-RRDEN-VSU 2009 Ju 2

Trainings

Training Workshop on Biotechnology, Biosafety and Social Marketing, VSU, Baybay, Leyte 2008 S 9-10

6th Scientific convention of the Philippine Association for Tissue Culture and Biotechnology, Splash Mountain Resort, Los Banos, Laguna (poster presenter -2 and moderator) 2008 O 26-30

Technoforum on Technologies and Policies for the Development of Rootcrop Bioethanol, VSU, Baybay, Leyte 2008 Mr 26

20th Regional RDE Symposium, Malitbog, Albuera, Leyte 2008 Je 17-18

Good Laboratory Practices, DOST 7, Banilad, Cebu City 2008 F 25-26

GMS Workshop on Economic Analysis of Postharvest Technologies for Vegetables, Goldiana Angkor Hotel, Siem Reap, Cambodia 2008 Ag 19-21

Quality Management in Supply Chains of Ornamentals, Radisson Hotel, Bangkok, Thailand 2007 D 3-6

Researches

Completed

Improvement of techniques for in vitro storage of root crop germplasm (Phase II) (Project and Study Leader of 4 studies)

Establishment of micropropagation system for sustained production of disease free root crop planting materials

Development of Optimized Tissue Culture Protocols for Dwarf Sensation and other In Demand Crops (LSUHORTONET Collaborative Project)

in vitro conservation and genetic diversity assessment of yam and arrowroot germplasm collection

Ongoing

Optimization of In vitro and Ex vitro Protocols for Purple Yam (Project Leader)

Papers Presented

Acedo, V. Z., Arradaza, C.C. (2012.Ap 23-28). Development of novel tissue culture-based seed system for year-round production of purple yam (*Dioscorea alata* L.), 8th Scientific Convention of the Philippine Association for Plant Tissue Culture and Biotechnology-PAPTCB, Inc., Boracay.

Acedo, V. Z., Arradaza, C.C. (2012.Ap 23-28). Development of novel tissue culture-based seed system for year-round production of purple yam (*Dioscorea alata* L.). Paper presented during the, 8th Scientific Convention of the Philippine Association for Plant Tissue Culture and Biotechnology-PAPTCB, Boracay.

Acedo, V.Z., Valida, I. A. (2012.Ap 23-28). Acedo, V. Z. and Valida, I. A. 2012. Growth of "VU-2" yam (*Dioscorea alata* L.) nodal explants in culture medium supplemented with different levels of sugar, 8th Scientific Convention of the Philippine Association for Plant Tissue Culture and Biotechnology-PAPTCB, Inc., Boracay.

Acedo, V. Z., Tuyan, W.O. (2012.Ap 23-28). In vitro growth response of selected recommended cassava varieties to different medium formulations, 8th Scientific Convention of the Philippine Association for Plant Tissue Culture and Biotechnology-PAPTCB, Inc., held in Boracay, Aklan.

Acedo, V.Z. (2012 F 21-24). Breaking yam dormancy with appropriate chemical treatment, Asia-Pacific Symposium on Postharvest Quality Management of Root and Tuber Crops in Bangkok, Thailand.

Mabini, N.Q., Acedo, V.Z. (2012 F 21-24). Vase life of Selected Florist greens in Different Holding solutions with Commercial Preservatives, International Conference on Quality Management in Supply Chains of Ornamentals.

Acedo, V.Z., Arradaza, C.C. (2012 Ap 23-28). In vitro conservation of yam (*Dioscorea alata* L.) using slow growth culture., 8th Scientific Convention of the Philippine Association for Plant Tissue Culture and Biotechnology-PAPTCB, Inc., Boracay.

Acedo, V. Z., Redoña, C. A.S. (2012 Ap 23-28). Simple technique in inducing in vitro production of microtubers in purple yam., 8th Scientific Convention of the Philippine Association for Plant Tissue Culture and Biotechnology-PAPTCB, Inc., held in Boracay, Aklan.

Acedo, V.Z (2009 My 18-23). Growth and Development of 'VU-2' Yam nodal Cultures as Affected by Size and Type of Culture Containers, 20th FCSSP Scientific Conference, Silliman University, Dumaguete City.

Acedo, V.Z (2009 Je 2). Development of Slow Growth Culture for In vitro Maintenance of Taro (*Colocasia esculenta*(L.) Schott.), VICARP-RRDDEN-VSU Search for Best Paper, 21st Regional RDE Symposium.

Acedo, V. Z., Arradaza, C. C- (2008 O 26-30). Propagation of Arrowroot (*Maranta arundinacea* L.) In Vitro, 6th Scientific Convention of the Philippine Association for Plant Tissue Culture and Biotechnology, Splash Mountain Resort, Los Banos, Laguna.

Acedo, V.Z. (2008 O 26-30). Propagation of recommended cassava varieties through tissue culture, 6th Scientific Convention of the Philippine Association for Plant Tissue Culture and Biotechnology, Splash Mountain Resort, Los Banos, Laguna.

Acedo, V. Z., Dacera, R. M. (2008 Je 17-18). Development of in vitro slow growth technique for germplasm maintenance of taro, 20th Regional RDE Symposium, Albuera, Leyte.

Acedo, V.Z., Gumop-as, G.S. (2008 Je 17-18). In vitro growth of 'VU-2' yam as affected by culture vessel size and cap materials, 20th Regional RDE Symposium, Albuera, Leyte.

Publications

- 2012 Acedo, V. Z., Arradaza, C.C. Development of in vitro slow growth culture for yam (*Dioscorea alata* L.). . *Annals of Tropical Research*, 2012, 34(1):79-95.
- 2009 Acedo, V.Z., Dacera, R.M Development of Slow Growth Culture for In vitro Maintenance of Taro (*Colocasia esculenta* (L.) Schott.).. In: *Book of Abstracts 21st Regional RDE Symposium*, Candahug, Palo, Leyte, 2009 JI 7-8:20.
- 2009 Acedo, V.Z., Gumop-as, G.S. Growth and Development of 'VU-2' Yam nodal Cultures as Affected by Size and Type of Culture Containers (abstract).. *The Philippine Journal Crop of Science*, 2009, 34:72.
- 2009 Acedo, V.Z., Labana, C.U Rapid Propagation of Recommended Philippine Cassava Varieties Through Tissue Culture. *Journal of Root Crops* (in press), 2009.
- 2008 Acedo, V.Z., Arradaza, C.C Propagation of Arrowroot (*Maranta arundinacea* L.) In Vitro. In: *Book of Abstracts, 6th Scientific Convention of the Philippine Association for Plant Tissue Culture and Biotechnology*, Splash Mountain Resort, Los Banos, Laguna, 2008 O 26-30:9.
- 2008 Acedo, V.Z. Propagation of recommended cassava varieties through tissue culture. *Book of Abstracts, 6th Scientific Convention of the Philippine Association for Plant Tissue Culture and Biotechnology*, Splash Mountain Resort, Los Banos, Laguna, 2008 O 26-30:29.
- 2008 Acedo, V.Z., Dacera, R.M. Development of in vitro slow growth technique for germplasm maintenance of taro. In: *Book of Abstracts, 20th Regional RDE Symposium*, Albuera, Leyte, 2008 Je 17-18:55.
- 2008 Acedo, V.Z., Gumop-as, G.S. In vitro growth of 'VU-2' yam as affected by culture vessel size and cap materials. In: *Book of Abstracts, 20th Regional RDE Symposium*, Albuera, Leyte, 2008 Je 17-18:35.
- 2006 Acedo, V. Z. Improvement of in vitro techniques for rapid meristem development and mass propagation of Philippine cassava (*Manihot esculenta* Crantz). *Journal: Food, Agriculture and Environment (JFAE)* Print ISSN:1459-0255 Online ISSN: 1459-0263, 2006, 4(1):220-224..

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Gender Male
Civil Status Single
Home Address 7621 S.W. 3rd Place Gainesville, Florida 32607

Organizational Affiliations

Associate Scientist and Director, Genomics Division, Interdisciplinary Center for Biotechnology Research, University of Florida, Gainesville, Florida 32610-3622

Education

Ph.D. in Biochemistry, Auburn University, Alabama 1976

MS in Biochemistry, Auburn University, Alabama 1973

B.S. Agricultural Chemistry, University of the Philippines, 1969

Fields of Specialization

Genomics and Proteomics (DNA Sequencing)

Endocrinology

Diabetes

Plant and Animal Science

Employment

Associate Scientist and Director, Production DNA Sequencing Core Operations, Genomics Division, Interdisciplinary Center for Biotechnol, 1999-2006-

Associate Scientist and Director, Genomics Division, Interdisciplinary Center for Biotechnology Research, University of Florida, 2006-present-

Assistant Scientist and Director, DNA Sequencing Core Facility, Molecular Services Division, Interdisciplinary Center for Biotechnolog, 1993-1999-

Visiting Professor, National Institute of Molecular Biology and Biotechnology, University of the Philippines, 1997 JI-

Visiting Scientist, Department of Science and Technology, Philippines, 1997 JI-

Senior Biological Scientist IT Technical Director, DNA Sequencing Core Laboratory, Interdisciplinary Center for Biotechnology Research, University of F, 1993-1999-

Assistant Research Scientist, Division of Endocrinology, Department of Medicine, University of Florida, 1985-1988-

Associate in Medicine, Division of Endocrinology, Dept. of Medicine, University of Florida, 1984-1985-

Research Associate, Division of Endocrinology, Dept. of Medicine, University of Alabama at Birmingham, 1983-1984-

Assistant in Medicine, Division of Endocrinology, Dept. of Medicine, University of Florida, 1979-1983-

Postdoctoral Research Fellow, Division of Endocrinology, Dept. of Medicine, University of Alabama at Birmingham, 1976-1979-

Graduate Research Assistant, Dept. of Animal and Dairy Sciences, Auburn University, Auburn, Alabama, 1971-1976-

Instructor, Dept. of Chemistry, University of The Philippines, 1969-1971-

Association Membership

Member, Pi Kappa Pi

Member, Gamma Sigma Delta Honor Society of Agriculture

Member, Chemical Society of the Philippines

Honors / Awards

Balik Scientist Award, DOST 2011

Balik Scientist Award, DOST 2008

Graduated Cum Laude (With Honors), University of the Philippines 1969

Undergraduate Fellowship, University of the Philippines 1964-69

Gamma Sigma Delta Honor Society of Agriculture, Auburn University 1973

Graduate Research Assistantship, Auburn University 1971-75

Publications

- 2001 Moser, B.A., Becnel, J.J., White, S.E., Claudio Afonso, C., Kutish, G., Shanker, S., Almira, E. Morphological and molecular evidence that *Culex nigripalpus* baculovirus is an unusual member of the family Baculoviridae. , 2001.
- 2000 Almira, E.C., Vives, M.C., Lopez, C., Guerri, J., Flores, R., Moreno, P., et al. Sequences of Citrus Tristeza Virus Separated in Time and Space Are Essentially Identical. *Journal of Virology*, 2000, 74(15):6856-6865.
- 2000 Jones, J.B., Bouzar, H., Stall, R.E., Almira, E.C., Roberts, P.D., Bowen, B.W., Sudberry, J., Strickler, P.M., Chun, J. Systematic analysis of xanthomonads (*Xanthomonas* spp.) associated with pepper and tomato lesions. , 2000.
- 2000 Jovtis, S., Brocato, N., Temperley, G., Balbiani, L., Comba, A.Z., Rondinon, M., Almira, E., Martinez, J., Bruno, M., Maldonado, D., Cavarra, G., M Orlando, M. Final results of a phase II trial of first-time therapy with gemcitabine (Gemtro®) (G) and carboplatin (C) in patients (pts) with advanced non-small cell lung cancer (NSCLC). *Lung Cancer*, 2000, 29(1):46-46.
- 1999 Jovtis, S., Marantz, A., Almira, E., Balbiani, L., Castilla, L., Fein, L., Lewi, D., PascÃ³n, G., Pinkevicius, R., Uranga, G. Phase II trial of gemcitabine (GEM), 5-Fluoruracil (5FU) and leucovorin (LV) in advanced pancreatic cancer (PC). *European Journal of Cancer*, 1999, 35:S157-S157.
- 1997 Shiwani, K., Ritchings, B.W., . Almira, E.C., Lory, S., Ramphal, R. A Transcriptional Activator, FleQ, Regulates Mucin Adhesion and Flagellar Gene Expression in *Pseudomonas aeruginosa* in a Cascade Manner. , 1997.
- 1995 Xu, J., Pemberton, G.H., Almira, E.C., McCarty, D.R., Koch, K.E. The *Ivr 1* gene for invertase in maize. *Plant Physiology*, 1995, 108(3):1293-1294.
- 1994 Chakrabarti, D., Reddy, G., Dame, J., Almira, E., Laipis, P., Ferl, R., Yang, T., Rowe, T., Schuster, S. Analysis of expressed sequence tags from *Plasmodium falciparum*. *Molecular and Biochemical Parasitology*, 1994, 66(1):97-104.

- 1994 Shen, B., Carneiro, N., Torres-Jerez, I., Stevenson, B., McCreery, T., Helentjaris, T., Baysdorfer, C., Almira, E., Ferl, R.J., Habben, J.E., Larkins, B. Partial sequencing and mapping of clones from two maize cDNA libraries. *Plant Molecular Biology*, 1994, 26(4):1085-1101.
- 1989 Misbin, R.I., Almira, E.C. Degradation of insulin and insulin-like growth factors by enzyme purified from human erythrocytes. Comparison of degradation products observed with A14- and B26-[125I]monoiodoinsulin. *Diabetes*, 1989, 38(2):152-158.
- 1989 Almira, E.C., Misbin, R.I. Effects of insulin and streptozotocin-diabetes on isoproterenol-stimulated cyclic AMP production in myocytes isolated from rat heart. *Metabolism-clinical and Experimental*, 1989, 38(2):102-103.
- 1988 Misbin, R.I., Green, A., Alvarez, I.M., Almira, E.C., Dohm, G.L., Caro, J.F. Inhibition of insulin-stimulated glucose transport by factor extracted from serum of insulin-resistant patient. *Diabetes*, 1988, 37(9):1217-1225.
- 1984 Misbin, R.I., Almira, E.C. The fate of insulin in rat hepatocytes. Evidence for the release of an immunologically active fragment. *Diabetes*, 1984, 33(4):355-361.
- 1983 Misbin, R.I., Almira, E.C., Duckworth, W.C., Melhl, T.D. Inhibition of insulin degradation by insulin-like growth factor. *Endocrinology*, 1983, 113(4):1525-1527.
- 1981 Misbin, R.I., Almira, E.C., Cleman, M.W. Insulin Degradation in Serum of a Patient with Apparent Insulin Resistance. *Journal of Clinical Endocrinology & Metabolism*, 1981, 52(2):177-180.

Name Evangelyn C. Alocilja

Gender Female

Civil Status Single

Organizational Affiliations

Associate Professor, Biosystems Engineering Dept. Of Biosystems and Agricultural Engineering, Michigan State University, USA

Education

Postdoctorate in Biosystems Engineering, Michigan State University, Michigan, USA 1990

PhD in Systems Science/Electrical Engineering, Michigan State University, Michigan, USA 1987

MS in Systems Science/Electrical Engineering, Michigan State University, Michigan, USA 1983

MS in Soil Chemistry/ Plant Physiology, UP Los Baños, College, Laguna 1981

BS Chemistry (Cum Laude), Siliman University, San Carlos City 1973

Fields of Specialization

Biosystems Engineering

Biomedical Engineering

Manufacturing Technology

Nanotechnology

Association Membership

Member, Sigma Xi

Member, The Scientific Research Society

Member, The Honor Society of International Scholars

Member, American Association for the Advancement of Science

Member, Phi Beta Delta

Honors / Awards

Balik Scientist Award, DOST 2009

2012 Innovator of the Year award for biosensor technology, Department of Biosystems and Agricultural Engineering, MSU 2012 Ap

Recepient of three (3) Patents,

Researches

Completed

Nanoparticle Tracer-based Electrochemical DNA Sensor for Detection of Pathogens-Amplification by a Universal Nano-tracer (AUNT) (Patent)

Papers Presented

Liu, Y., Zhang, D., Alocilja, E.C., Chakrabarty, S. (2009). Design and characterization of a silver-enhanced gold nanoparticle-based biochip, IEEE International Symposium on Circuits and Systems.

Liu, Y., Alocilja, E., Chakrabarty, S. (2009). Exploiting Sub-threshold and above-threshold characteristics in a silver-enhanced gold nanoparticle based biochip, Annual International Conference of the IEEE Engineering in Medicine and Biology Society.

Liu, Y., Chakrabarty, S., Alocilja, E.C. (2008). A multiplexed biosensor based on biomolecular nanowires, IEEE International Symposium on Circuits and Systems.

Alocilja, E.C., McLean, T. (2007). Bioluminescent Sensors for Onsite Non-specific Screening of Toxic Agents in Food and Water, IEEE Conference on Technologies for Homeland Security.

Gore, A., Chakrabarty, S., Pal, S., Alocilja, E.C. (2006). A Multichannel Femtoampere-sensitivity Conductometric Array for Biosensing Applications, Annual International Conference of the IEEE Engineering in Medicine and Biology Society.

Alocilja, E.C. (1990). Process network theory, IEEE International Conference on Systems, Man, and Cybernetics.

Publications

- 2012 Alocilja, E.C. et al. Pandemic Influenza Detection by Electrically Active Magnetic Nanoparticles and Surface Plasmon Resonance Tracy L. Kamikawa, Malgorzata G. Mikolajczyk, Michael Kennedy, Lilin Zhong, Pei Zhang, Emma B. Settingington, Dorothy E. Scott, Evangelyn C. Alocilja. IEEE Transactions on Nanotechnology - IEEE TRANS NANOTECHNOL, 2012, 11(1):88-96.
- 2011 Srinivasan, S., Aslan, A., Xagorarakis, I., Alocilja, E., Rose, J.B. Escherichia coli, enterococci, and Bacteroides thetaiotaomicron qPCR signals through waste water and septage treatment. Water Research, 2011, 45(8):2561-2572.
- 2011 Zhang, D., Anderson, M.J., Huarng, M.C., Alocilja, E.C. Nanoparticle-Based Biobarcode DNA sensor for the Rapid Detection of pagA Gene of Bacillus Anthracis. IEEE Transactions of Nanotechnology, 2011, 10(6):1433-1438.
- 2011 Anderson, M.J., Zhang, D., Alocilja, E.C. Spectral and Electrical Nanoparticle-Based Molecular Detection of Bacillus Anthracis Using Copolymer Mass Amplification. IEEE Transactions on Nanotechnology, 2011, 10(1):44-49.
- 2011 Torres-Chavolla, E., Alocilja, E.C. Nanoparticle based DNA biosensor for tuberculosis detection using thermophilic helicase-dependent isothermal amplification. Biosensors & Bioelectronics, 2011, 26(11):4614-4618.
- 2011 Settingington, E.B., Alocilja, E.C. Rapid electrochemical detection of polyaniline-labeled Escherichia coli O157:H7. Biosensors and Bioelectronics, 2011, 26(5):2208-2214.
- 2011 Settingington, E.B., Cloutier, B.C., Ochoa, J.M., Cloutier, A.K., Jain, P., Alocilja, E.C. Rapid, sensitive, and specific immunomagnetic separation of foodborne pathogens. International Journal of Food Safety, Nutrition and Public Health, 2011, 4(1):83-100.
- 2011 Kamikawa, T.L., Mikolajczyk, M.G., Kennedy, M., Zhong, L., Zhang, P., Settingington, E., Scott, D.E., and Alocilja, E.C. Pandemic influenza detection by electrically active magnetic nanoparticles and surface Plasmon resonance (accepted for publication). IEEE Transaction on Nanotechnology, 2011.

- 2010 Alpatova, A.L., Shan, W., Babica, P., Upham, B.L., Rogensues, A.R., Masten, S.J., Drown, E., Mohanty, A.K., Alocilja, E.C., Tarabara, V.V. Single-walled carbon nanotubes dispersed in aqueous media via non-covalent functionalization: Effect of dispersant on the stability, cytotoxicity, and epigenetic toxicity of nanotube suspensions. *Water Research*, 2010, 44(2):505-520.
- 2010 Torres-Chavolla, E., Ranasinghe, R.J., Alocilja, E.C. Characterization and Functionalization of Biogenic Gold Nanoparticles for Biosensing Enhancement. *IEEE Transactions on Nanotechnology*, 2010, 9(5):533-538.
- 2010 Luo, Y., Nartker, S., Miller, H., Hochhalter, D., Wiederoder, M., Wiederoder, S., Settingington, E., Drzal, L.T., Alocilja, E.C. Surface functionalization of electrospun nanofibers for detecting *E. coli* O157:H7 and BVDV cells in a direct-charge transfer biosensor. *Biosensors and Bioelectronics*, 2010, 26(4):1612-1617.
- 2010 Kamikawa, T.L., Mikolajczyk, M.G., Kennedy, M., Zhang, P., Wang, W., Scott, D.E., Alocilja, E.C. Nanoparticle-based biosensor for the detection of emerging pandemic influenza strains. *Biosensors & Bioelectronics*, 2010, 26(4):1346-1352.
- 2010 LiuDeng, Y., Deng, Z. D., Alocilja, E.C., Chakrabarty, S. Biomolecules Detection Using a Silver-Enhanced Gold Nanoparticle-Based Biochip. *Nanoscale Research Letters*, 2010, 5(3):533-538.
- 2010 Liu, Y., Ming Gu, M., Alocilja, E.C., Chakrabarty, S. Co-detection: Ultra-reliable nanoparticle-based electrical detection of biomolecules in the presence of large background interference. *Biosensors & Bioelectronics*, 2010, 26(3):1087-1092.
- 2010 Zhang, D., Huarng, M.C., Alocilja, E.C. A multiplex nanoparticle-based bio-barcoded DNA sensor for the simultaneous detection of multiple pathogens. *Biosensors & Bioelectronics*, 2010, 26(4):1736-1742.
- 2010 Joon-Hyung Jin, Alocilja, E.C., Grooms, D.L. Fabrication and electroanalytical characterization of label-free DNA sensor based on direct electropolymerization of pyrrole on p-type porous silicon substrates. *Journal of Porous Materials*, 2010, 17(2):169-176.
- 2010 Pal,S., Alocilja, E.C. Electrically active magnetic nanoparticles as novel concentrator and electrochemical redox transducer in *Bacillus anthracis* DNA detection. *Biosensors & Bioelectronics*, 2010, 26(4):1624-1630.
- 2009 Zhang, D., Carr, D.J., Alocilja, E.C. Fluorescent bio-barcode DNA assay for the detection of *Salmonella enterica* serovar *Enteritidis*. *Biosensors & Bioelectronics*, 2009, 24(5):1377-1381.
- 2009 Sudeshna Pal, S., Alocilja, E.C. Electrically active polyaniline coated magnetic (EAPM) nanoparticle as novel transducer in biosensor for detection of *Bacillus anthracis* spores in food samples. *Biosensors & Bioelectronics*, 2009, 24(5):1437-1444.
- 2009 Torres-Chavolla, E., Alocilja, E.C. Aptasensors for detection of microbial and viral pathogens. *Biosensors & Bioelectronics*, 2009, 24(11):3175-3182.
- 2009 Jong Seol Yuk, Joon-Hyung Jin, Alocilja, E.C., Rose, J.B. Performance enhancement of polyaniline-based polymeric wire biosensor. *Biosensors & Bioelectronics*, 2009, 24(5):1348-1352.
- 2008 Cabaraban, M.T.I., Khire, M.V., Alocilja, E.C. Aerobic in-vessel composting versus bioreactor landfilling using life cycle inventory models. *Clean Technologies and Environmental Policy*, 2008, 10(1):39-52.
- 2008 Zhang, D., Alocilja, E.C. Characterization of Nanoporous Silicon-Based DNA Biosensor

- for the Detection of Salmonella Enteritidis. *IEEE Sensors Journal*, 2008, 8(6):775-780.
- 2008 Pal, S., Ying, W., Alocilja, E.C., Downes, F.P. Sensitivity and specificity performance of a direct-charge transfer biosensor for detecting *Bacillus cereus* in selected food matrices. *Biosystems Engineering*, 2008, 99(4):461-468.
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1997 Alociljã, E. SWAGMAN Options: A hierarchical multicriteria framework to identify profitable land uses that minimize water table rise and salinization. *Applied Mathematics and Computation*, 1997, 83(2):217-240.

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Organizational Affiliations

Deputy Head, Division of Engineering and Technology Management National University of Singapore, Singapore

Education

Ph.D. in Electrical Engineering, University of Rochester, Rochester, New York 1988
M.S. in Electrical Engineering, University of Rochester, Rochester, New York 1987
M.S. in Mechanical Engineering, University of Hawaii, Manoa, Honolulu Hawaii 1985
B.S. in Mechanical Engineering and in Industrial Management Engineering (cum Laude), De La Salle University, Manila, Philippines 1981

Fields of Specialization

Mechanical and Electrical Engineering
Robotics and Mechatronics
Mobile Robotic Manipulation in Human Environments
Distributed Autonomous Robotics Systems
Compliant Motion and Force Control
Computer Control, Mechatronics and Automation
Computational Intelligence, Neural Networks, Genetic Algorithms, and Fuzzy Reasoning and their Applications to Robotics and Automation
Creativity and Innovation

Employment

Research Assistant, Electrical Engineering Dept., University of Rochester, Rochester, New York, 1988 S-1986 Ag-
Adjunct Associate Professor, Dept. of Mechanical Engineering, Adelaide University, Australia, 2001 N- 2006 O-
Associate Professor, Mechanical Engineering Department, University of British Columbia, -
Associate Professor, Faculty of Industrial Design, Technical University of Eindhoven, 2002 S- 2007 S-

Association Membership

Member, Sifma Xi, The Scientific Research Society, Rochester Chapter
Member, Department of Mechanical Engineering National University of Singapore

Member, Department of Mechanical and Production Engineering National University of Singapore

Member, Institute of Electrical and Electronic Engineers (IEEE), Robotics and Automation Society

Honors / Awards

Most Outstanding Paper in 1999 Volume of the Journal, Industrial Robot,

Balik Scientist Award, DOST 2009

Awards for Excellence,

Honorable Mention, Use of IT in Teaching ward, National University of Singapore 1998

Outstanding Paper Award, The Asia-Pacific Industrial Automation Conference (IA)'90 1990 My 23-26

Industrial Associates Program Fellowship, Production Automation Project, University of Rochester, New York USA 1986-1987

Teaching Assistantship, University of Rochester, New York, USA 1987-1988

East West Center Honor Award, Honolulu, Hawaii 1985

Trainings

International Conference on Robotics and Automation - ICRA, 2011

IEEE International Symposium on Biomedical Imaging, 2011

International Conference on Control, Automation, Robotics and Vision - ICARCV, 2010

IEEE/ASME International Conference on Advanced Intelligent Mechatronics - AIM, 2009

Asia International Conference on Modeling & Simulation - AMS, 2008

IEEE International Conference on Rehabilitation Robotics - ICORR, 2007

International Conference on Intelligent Robots and Systems - IROS, 2005

National Conference on Artificial Intelligence - AAI, 2004

Researches

Completed

Ultra Wide Band - Enabled Sentient Computing Architecture and Middleware with Coordinated Qos (USCAM - CQ)

Autonomous Service Robots in Multi-Agent Based System for Household and Industrial Environments

Project CRP U01-A131A: Robust Mobile Manipulation in Unstructured and Human Environments

Papers Presented

Yan, H., Ang, M.H.Jr., Poo, A.N. (2011). Cross-dataset facial expression recognition, International Conference on Robotics and Automation - ICRA.

Yan, H., Ang, M.H. Jr., Poo, A.N. (2011). Weighted biased linear discriminant analysis for misalignment-robust facial expression recognition 2011, International Conference on Robotics and Automation - ICRA.

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Ong, L.L., Ang, M.H., Asada, H. (2011). Simultaneous tracking of cell nuclei and conduit parameters from time-lapse confocal microscopy images, IEEE International Symposium on Biomedical Imaging.

Vuong, D.N., Ang, M.H.Jr., Lim, T.M., Lim, S.Y. (2010). An analysis of the operational space control of robots, International Conference on Robotics and Automation - ICRA.

Zhang, S., Gong, J., Tham, C-K., Xiao, W., Ang, M.H.Jr., Tham, R.Q.F. (2010). Mobile sensing and simultaneously node localization in wireless sensor networks for human motion tracking, International Conference on Control, Automation, Robotics and Vision - ICARCV.

Guo, J., Fu, M., Bandyopadhyay, T., Ang, M.H. Jr. (2009). Local Voronoi Decomposition for multi-agent task allocation, International Conference on Robotics and Automation - ICRA.

Fu, J.G.M., Ang, M.H. Jr. (2009). Probabilistic Ants (PAnts) in Multi-Agent Patrolling, IEEE/ASME International Conference on Advanced Intelligent Mechatronics - AIM.

Ang, M.H. Jr. (2008). Robotics: The New Emerging Applications, Asia International Conference on Modeling & Simulation - AMS.

Ang, M.H.Jr, et al. (2008). Particle filter for target tracking in multi-modality wireless sensor networks, IEEE International Conference on Systems, Man, and Cybernetics - SMC.

Xia, Q.H., Lim, S.Y., Ang, M.H. Jr., Lim, T.M. (2008). Parallel force and motion control using adaptive observer-controller, IEEE International Conference on Systems, Man, and Cybernetics - SMC.

Bandyopadhyay, T., Hsu, D., Ang, M.H. (2008). Motion Strategies for People Tracking in Cluttered and Dynamic Environments, International Symposium on Experimental Robotics - ISER.

Sun, J., Poo, A.N., Ang, M.H. Jr., C. M. Chew, C.M., Hong, G.S., Tan, K.K., de Silva, C.W. (2008). Evaluation and optimization of passive vibration controller design for flexible beams, IEEE International Conference on Systems, Man, and Cybernetics - SMC.

Rebsamen, B., Burdet, E., Guan, C., Teo, C.L., Qiang Zeng, Ang, M.H.Jr., Laugier, C. (2007). Controlling a wheelchair using a BCI with low information transfer rate, IEEE International Conference on Rehabilitation Robotics - ICORR.

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- 2012 Bandyopadhyay, T., Jie, C.Z., Hsu, D., Ang, M.H. Jr., Rus, D., Frazzoli, E., Intention-Aware Pedestrian Avoidance. *ISER*, 2012:963-977.
- 2011 Soewandito, D.B., Oetomo, D., Ang, M.H.Jr. Neuro-adaptive motion control with velocity observer in operational space formulation. *Robotics and Computer-integrated Manufacturing - ROBOT COMPUT-INTEGR MANUF*, 2011, 27(4):829-842.
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- 2011 Yan, H., Ang, M.H. Jr., Poo, A.N. Weighted biased linear discriminant analysis for misalignment-robust facial expression recognition. *ICRA*, 2011:3881-3886.
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- 2006 Seah, W.K.G., Liu, K.Z., Ang, M.H.Jr. TARANTULAS: Mobility-enhanced Wireless Sensor-Actuator Networks. *Sensor Networks, Ubiquitous, and Trustworthy Computing - SUTC*, 2006:548-551.
- 2006 Low, K.H., Leow, W.K., Ang, M.H. Autonomic mobile sensor network with self-coordinated task allocation and execution. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans - TSMCA*, 2006, 36(3):315-327.
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- Torque Distribution for a Redundant Mobile Robot. International Conference on Robotics and Automation - ICRA, 2006:3362-3367.
- 2006 Saedan, M., Lim, C.W., Ang, M.H. Omnidirectional Image Matching for Vision-Based Robot Localization. International Conference on Mechatronics - ICM, 2006.
- 2006 Li, Q., Harris, B., Aydogan, C., Ang, M.H., Tade, M. Feasibility of Recharging Reclaimed Wastewater to the Coastal Aquifers of Perth, Western Australia. Process Safety and Environmental Protection - PROCESS SAF ENVIRON PROT, 2006, 84(4):237-246.
- 2006 Ang, M.H.Jr., Khatib, O. Editorial: IJRR Special Issue on ISER 04. International Journal of Robotic Research - IJRR, 2006, 25(5-6):399-401.
- 2006 Sun, J., Poo, A.N., Hong, G.S., Chew, C.M., Ang, M.H., Tan, K.K. Mechatronic Design Quotient Approach in Beam Vibration Suppression Design using Linear Dampers. Robotics, Automation and Mechatronics - RAM, 2006.
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- 2006 Liu, Z., Ang, M.H. Jr, Khoon, W. Multi-robot concurrent learning of cooperative behaviours for the tracking of multiple moving targets. International Journal of Vehicle Autonomous Systems, 2006, 4:2/3/4.
- 2005 Li, Y.P., Oetomo, D., Ang, M.H. Jr. , Lim, C.W. Torque distribution and slip minimization in an omnidirectional mobile base. International Conference on Advanced Robotics - ICAR, 2005.
- 2005 Winston, K., Seah, G., Tan, H.X., Liu, Z., Ang, M.H. Multiple-UUV approach for enhancing connectivity in underwater ad-hoc sensor networks. OCEANS - OCEANS, 2005.
- 2005 Liu, Z., Ang, M.H. Jr, Seah, W.K.G. Reinforcement learning of cooperative behaviors for multi-robot tracking of multiple moving targets. International Conference on Intelligent Robots and Systems - IROS, 2005.
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- 2004 Xia, Q.H., Lim, S.Y., Ang, M.H., Lim, T.M. Adaptive Friction Compensation Using a Velocity Observer. International Symposium on Experimental Robotics - ISER, 2004:77-86.
- 2004 Liu, Z., Marcelo H. Ang Jr., Winston Khoon Guan Seah A Searching and Tracking Framework for Multi-Robot Observation of Multiple Moving Targets. Journal of Advanced Computational Intelligence and Intelligent Informatics - JACIII, 2004, 8(1):14-22.
- 2004 Lowt, K.H., Leowt, W.K., Ang, M.H. Jr. Continuous-Spaced Action Selection for Single and Multi-Robot Tasks Using Cooperative Extended Kohonen Maps. International Conference on Networking, Sensing and Control - ICNSC, 2004, 1:198-203.
- 2003 Low, K.H., Leow, W.K., Ang, M.H. Action Selection for Single and Multi-Robot Tasks Using Cooperative Extended Kohonen Maps. International Joint Conference on Artificial Intelligence - IJCAI, 2003:1505-1506.
- 2003 Qing Hua Xia, Ser Yong Lim, Marcelo H Ang Jr, Tao Ming Lim Implementation of an output feedback controller in operational space. International Conference on Intelligent Robots and Systems - IROS, 2003.
- 2002 Liu Chengqing, Marcelo H. Ang, Hariharan Krishnan, Ser Yong Lim Virtual Obstacle Concept for Local-Minimum Recovery in Potential-Field Based Navigation. International Conference on Robotics and Automation - ICRA, 2002, 2:983-988.
- 2000 Yang, H. Krishnan, H., Ang, M.H. Jr. Tip-trajectory tracking control of single-link flexible robots by output redefinition. IEE Proceedings-control Theory and Applications - IEE PROC-CONTROL THEORY APPL, 2000, 147(6).
- 2000 Hu, S., Ang, M.H.Jr., Krishnan, H. Neural Network Controller for Constrained Robot Manipulators. International Conference on Robotics and Automation - ICRA, 2000, 2:1906-1911.
- 2000 Denny Oetomo, Marcelo Ang Jr., Ser Yong Lim Singularity Handling on Puma in Operational Space Formulation. International Symposium on Experimental Robotics - ISER, 2000:491-500.
- 2000 Ang, M.H. Jr, Lin, W., Lim, S.Y. An Industrial Application of Control of Dynamic Behavior of Robots A Walk-Through Programmed Welding Robot. International Conference on Robotics and Automation - ICRA, 2000, 3:2352-2357.

- 1999 Yang, H., Krishnan, H., Ang, M.H. Tip-Trajectory Tracking Control of Single-Link Flexible Robots via Output Redefinition. International Conference on Robotics and Automation - ICRA, 1999, 2:1102-1107.
- 1999 Ang, M.H.Jr, Lin, W., Lim, S.Y. A walk-through programmed robot for welding in shipyards. Industrial Robot-an International Journal - IND ROBOT, 1999, 26(5):377-388.
- 1999 Yang, H., Krishnan, H., Ang, M.H. Synthesis of Bounded-Input Nonlinear Predictive Controller for Multi-Link Flexible Robots. International Conference on Robotics and Automation - ICRA, 1999, 2:1108-1113.
- 1997 Ang, M.H.Jr. et al. Passive compliance of flexible link robots. II. Analysis and application. International Conference on Advanced Robotics - ICAR, 1997.
- 1997 Tian-Soon, S., Ang, M.H., Kah-Bin, L. A compliant end-effector coupling for vertical assembly: design and evaluation. Robotics and Computer-integrated Manufacturing - ROBOT COMPUT-INTEGR MANUF, 1997, 13(1):21,29-27,30.
- 1997 Ang, M.H. Jr., Wang, W., Robert, N.K. Low, T. Passive Compliance from Robot Limbs and its Usefulness in Robotic Automation. Journal of Intelligent and Robotic Systems - JIRS, 1997, 20(1):1-21.
- 1997 Ang, M.H. Jr., Wu, J. Critical issues in robotics. Robotics and Autonomous Systems - RaS, 1997, 21(3):3-4.
- 1995 Tourassis, V.D., Ang M.H. Jr Task decoupling in robot manipulators. Journal of Intelligent and Robotic Systems - JIRS, 1995, 14(3):283-302.
- 1992 Tourassis, V.D., Ang, M.H. Identification and Analysis of Robot Manipulator Singularities. International Journal of Robotic Research - IJRR, 1992, 11(3):248-259.
- 1992 Poo, A.N., Ang, M.H., Li, Q. Performance of a neuro-model-based robot controller: adaptability and noise rejection. Intelligent Systems Engineering, 1992, 1(1).
- Bandyopadhyay, T., Ang, M.H. Jr., Hsu, D. Motion Planning for 3-D Target Tracking among Obstacles. International Journal of Robotic Research - IJRR, .

Name Fernando B. Aurigue

Gender Male

Civil Status Single

Organizational Affiliations

Science Research Specialist 1, Philippine Nuclear Research Institute, Diliman, Quezon City

Education

MS in Plant Breeding (Horticulture), UPLB, College, Laguna 1993

Fields of Specialization

Agriculture and Forestry

Horticulture

Association Membership

Member, National Research Council of the Philippines (NRCP)

Member, National Ornamental R&D Experts Pool/PCARRD

Member, Technical Working Group on Ornamental, National Seed Industry Council (NSIC)

Consultant, Fairview Garden Club

Resource Person, New Generation Coin Series, Mint and Refinery Operations Department, Security Plant Complex, Bangko

Honors / Awards

Elected Chair, PWC, PAWB, DENR 2009 D

Appointed Acting Chair, Ornamental Crops TWG and Member, Technical Secretariat of NSIC, BPI 2009 Ag6

Appointed Member, National Philippine Wild Flora Council (PWC), Protected Areas and Wildlife Bureau (PAWB), DENR 2009 N 25- 2012 N 24

Appointed Member for 2009-2010 Ornamental Crops TWG of the National Seed Industry Council (NSIC), Bureau of Plant Industry 2009 Mr 10

Recognition Award for establishing the Aroids Group and for his Generous and Dedicated Leadership, Philippine Horticultural Society, Inc., Holy Spirit, Quezon City 2006 F 4

Chairman, 3rd Flora Filipina Conference, Flora Filipina Expo 2012 2012 F 24-25

Trainings

Atomic Research Division Lecture Series, PNRI, Diliman, Quezon City 2006 O 13

Nursery Operation and propagation Technology for Ferns/10th Philippine Floriculture Congress, Sarabia Manor Hotel and Convention Center, Iloilo City 2006 N 14

Varietal development of Ornamental Plant Through Gamma Irradiation/10th Philippine Floriculture Cong, Sarabia Manor Hotel, and Convention Center, Iloilo City 2006 N 14

Effects of Radiation on Ornamental Plants, Lecture Series on Nuclear Science, 34th Atomic Energy Week, PNRI, Diliman, Quezon City 2006 D 12-15

Researches

On-going

Enhancement of Agricultural Productivity in Mindanao Through Radiation Technology: Component I. Fruit Crops

Mutation Breeding of Priority Agricultural Crops: Component I. Ornamentals

Papers Presented

Magdalita, P.M., Aurigue, F. B., Pimentel, R. B. (2012 F 24). Ornamental Plant Variety Development in the Philippines, Third Flora Filipina Conference. Bureau of Soils and Water Management Convention Hall, Visayas Avenue corner Elliptical Road, Diliman, Quezon City, Philippines.

Magdalita, P. M., Aurigue, F. B., Pimentel, R. B. (2012 F). Ornamental Plant Variety Development in the Philippines Quezon City, Philippines. February 24, 2012., 3rd Flora Filipina Conference. Bureau of Soils and Water Management Convention Hall, Visayas Avenue corner Elliptical Road, Diliman, Quezon City.

Aurigue, F.B. (2009 F 7). Selection of Philippine Aroids for the Ornamental Industry, 2nd Flora Filipina Conference, Bureau of Soils and Water Management Conference Hall, Diliman, Quezon City.

Aurigue, F.B. (2006 JI 28-Ag 7-). Alocasia. Aroid Study Group Poster, Fern an Aroid Show, Manila Seedling Bank Environmental Center, Quezon City.

Aurigue, F.B. (2006 JI 28-Ag 7). Pungapong (Amorphophallus. Aroid Study Group Poster , Fern an Aroid Show, Manila Seedling Bank Environmental Center, Quezon City.

Aurigue, F.B. (2006 JI 28-Ag 7). Aglaodorum and Cryptocoryne. Aroid Study Group Poster, Manila Seedling Bank Environmental Center, Quezon City.

Aurigue, F.B. (2006 JI 28-Ag 7). La Suerte (Aglaonema). Aroid Study Group Poster, Fern and Aroid Show, Manila Seedling Bank Environmental Center, Quezon City.

Aurigue, F.B. (2006 JI 28-Ag 7). Anthurium. Aroid Study Group Poster , Fern an Aroid Show, Manila Seedling Bank Environmental Center, Quezon City.

(). 14 items 2006 NRCP activities, .

Publications

- 2012 Aurigue, F. B. Himbabao: A Nutritious Tree In: Philippine Native Trees 101: Up Close and Personal. Green Convergence for Safe Food, Healthy Environment and Sustainable Economy, and Hortica Filipina Foundation, Inc., 2012:144-145.
- 2012 Aurigue, F. B. A Collection of Philippine Hoyas and Their Culture. . Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development Book Series No. 2/2012, PCAARRD, Los Baños, Laguna, Philippines, 2012:195.
- 2012 Aurigue, F. B. Kalios: For the Winged Creatures and Flighty Children. Philippine Native Trees 101: Up Close and Personal. Green Convergence for Safe Food, Healthy Environment and Sustainable Economy, and Hortica Filipina Foundation, Inc., 2012:166-167.
- 2012 Aurigue, F.B. Kamuning: Does It Grow on Kamuning Street?. Philippine Native Trees 101: Up Close and Personal. Green Convergence for Safe Food, Healthy Environment and Sustainable Economy, and Hortica Filipina Foundation, Inc., 2012:178-179..
- 2012 Aurigue, F. B. PNRI Mutant Variety: Sansevieria Sword of Ibe. Philippine Nuclear

Journal 16:36-40 (released on July 2012), 2012, 16:36-40.

- 2009 Rosario, T.L., Aurigue, F.B. UPLB White and Eternity: Two new varieties of anthurium for cut flowers. *Philippine Agricultural Scientists*, 2009, 92(44):441-445.
- 2009 Rosario, T.L., Aurigue, F.B. UPLB White and Eternity: Two new varieties of anthurium for cut flowers. *AGGIE Green and Gold -Official Quarterly Publication of the UPLB College of Agriculture*, 2009, 9(3):15-16.
- 2006 Rosario, T.L., Aurigue, F.B. The origin and characterization of two new *Mussaenda* hybrids. *Philippine Agricultural Scientist*, 2006, 89(1):85-90.
- 2005 Aurigue, F.B. How To Breed Ti Plants. *The Philippine Agriculture Magazine*, 2005 Je:26-30.

Name Supachai A. Basit
Gender Male
Civil Status Single
Home Address 1113-1117 San Marcelino Street, Paco Manila

Organizational Affiliations

Dean and Full Professor 3, School of Medical Technology at Emilio Aguinaldo College, 1113-1117 San Marcelino Street, Paco, Manila

Education

Ph.D. in Science Education, Biology, De La Salle University, Manila 2009

Master in Biology Education, Microbiology and Biology, University of Santo Tomas, Manila 2004

BS Medical Technology, Centro Escolar University, 1996

Fields of Specialization

Governmental, Educational and International Policies

Teaching/Statistics/ Research/ Public Speaking/

Microbiology

Water quality

Hematology

Immunology

Employment

Educator, Leader and Researcher in Health Sciences, Educational Institution/Higher Education Industry, 1996-present-

Association Membership

Member, National Research Council of the Philippines (NRCP)

Regular Member, Philippine Association of Medical Technologists (PASMET)

Member, Philippine Association of Colleges and Universities Commission on Accreditation (PACUCOA)

Regular Member, Philippine Association of Schools of Medical Technology and Public Health (PASMETH)

Member, Philippine Association for Graduate Education

Honors / Awards

Outstanding Dissertation, De La Salle University 2009 JL

Outstanding Research in Biology Education, College of Education, De La Salle University 2009 JL

Trainings

2nd Academic Nursing Practice Forum,, St. Lukes College of Nursing-Trinity University of Asia 2009 S 5

45th Annual PAMET Convention, Manila Hotel, Manila 2009 N 30

Psychological Association of the Philippines Annual Convention, Siliman University 2009
Ag 14

Researches

Completed

Snyder Test as a presumptive tool for evaluation of oral health and hygiene

Exploring ethos and epistemological diversities of allied health science foreign students on HIV/AIDS ontology

Reliability of Commercial Home Glucose Monitoring Kits and KAP (Knowledge, Attitude and Practices) of Non-Medical Technologist Practitioners

Two-hours post-prandial effects of Moringa Oleifera Lam tea (2009)

Ongoing

Towards the Constructivist Framework in HIV/AIDS Education: Implications for HEI's Pedagogical Model

CHED Nationwide Graduate Tracer Study

A multivariate analysis on the occurrence of parasitic infections among the children residing in the riverbanks of Pasig river

Papers Presented

Basit, S.A. (2011 O). Medical Technologists: Guarding the microbial safety of water amidst changing times (Plenary Speaker) October 2011., PAMET Southern Luzon Regional Convention, Naga City, Camarines Sur.

Basit, S.A. (2011 Mr). Exploring ethos and epistemological diversities of allied health science foreign students on HIV/AIDS ontology presentation, NRCP General Assembly.

Basit, S.A. (2009 S 5). Innovations in Methods of Health Teaching, 2nd Academic Nursing Practice Forum, St. Lukes College of Nursing-Trinity University of Asia.

Basit, S.A. (2009 O 7). NRCP Cluster 1 RTD: Kukurap lang ba tayo sa Corruption, Pearl Manila Hotel.

Basit, S.A., Mendoza, C., Lim, C., (2009 N 30). Reliability of Commercial Home Glucose Monitoring Kits and KAP (Knowledge, Attitude and Practices) of Non-Medical Technologist Practitioners, 45th Annual PAMET Convention, Manila Hotel.

Carvajal, T.M., Basit, S.A., Castro, C.Z.R., Ho., H.T., Luna, G.D.A. (2009 My 15). Survey of Oral Microbe Density, Oxygen Requirement and Acid Production Among Residents of A Rural Community: Implications in Dental Caries Assessment, Philippine Society for Microbiology, Hyatt Hotel and Casino Manila.

Castro, C.R., Tolentino, O.L., Gomez, O.P., Basit, S.A., Carvajal, T.M., Ho., H.T. (2009 My 15). Biochemical Characteristics of Bacterial Isolates from Nurses' Uniform: Implications to Hospital Policies and Procedures, Philippine Society for Microbiology, Hyatt Hotel and Casino Manila.

Basit, S.A., Lee, A.C. (2009 Ja 19-24). Screening of Extended spectrum beta lactamase producing coliforms isolated from commercial establishments in Metro Manila, Philippines, Nursing Science Research Colliquium, St. Lukes College of Nursing-Trinity University of Asia.

Basit, S.A., Mendoza, M., Gusi, J., Mahamad, O., Pontillas, W. (2009 F 12). Correlation of

Computer Games Addiction to Fasting Blood Sugar Level, EAC Research Colliquium Poster Presentation, Emilio Aguinaldo College Manila.

Basit, S.A., Espos, P., Gomez, N., Fernandez, D., Hernandez, K., Gomez, V. (2009 F 12). Correlation of Computer Games Addiction to Complete Blood Count, EAC Research Colliquium Poster Presentation, Emilio Aguinaldo College Manila.

Basit, S.A. (2009 F 12). Fostering Conceptual Change Through Case-Based Pedagogy, EAC Research Colliquium Poster Presentation, Emilio Aguinaldo College Manila.

Basit, S.A., Luna, G., Ho, H., Guinto, K., Bautista, R. (2009 Ap 4). Teaching Perspectives of Faculty in a Nursing School: Implications for Educational Management, Lasallian Institute for Development and Education Research, De La Salle University.

Basit, S.A., Ho, H., Carvajal, T., Castro, C., Luna, G. (2009 Ap 3-4). BIOTA Convention, University of Makati.

Basit, S.A., Ho, H., Carvajal, T., Castro, C., Luna, G. (2009 Ap 3-4). Nursing Student' Mental Model on Hypersensitivity Reaction, BIOTA Convention, University of Makati.

Basit, S.A., Limjap, A., Prudente, M. (2009 Ap 3-4). Fostering Cognitive Model Reasoning Through Computer Animation with Case-Based Pedagogy, BIOTA Convention, University of Makati.

Basit, S.A., Limjap, A., Prudente, M. (2009 Ag 14). Fostering Cognitive Model Reasoning Through Computer Animation with Case-Based Pedagogy, Psychological Association of the Philippines Annual Convention, Siliman University.

Publications

- 2011 Basit, S.A. Spatio-Temporal Variations of Physico-Chemical and Bacteriological Characteristics of Ground Water in Metro Manila. EAC Research Bulletin, 2011 S1.
- 2011 Basit, S.A., Mendoza, C.M., Garcia, J.Y.M., Carvajal, T.M. Lee, A.C. Spatio-Tempral Variation of Physico-Chemical and Bacteriological Quality of Groundwater in Selected Areas of Manila. EAC Research Bulletin, 2011, 1:28-39.
- 2010 Basit, S.A. Reliability of Commercial Home Glucose Monitoring Kits and KAP (Knowledge, Attitude and Practices) of Non-Medical Technologists Practitioners. EAC Research Bulletin, 2010 D 1.
- 2010 Basit, S.A. Fostering Cognitive Model Reasoning Through Computer Animation with Case-Based Pedagogy. Proceedings of the Association of Southeast Asian Institutions for Higher Learning (ASAIHL) Conference (A Peer-Reviewed International Proceedings) National Taiwan University, 2010.
- 2010 Basit, S.A. Use of isopropyl alcohol in disinfecting BP apparatus to prevent transmission of infectious disease to patients Authors: Supachai Basit. Philippine Journal of Nursing Education, 2010.
- 2010 Basit, S.A. Two-hour post-prandial effects of commercially available Moringa oleifera tea. Scientificus, 2010.
- 2009 Basit, S.A., Lee, A.C. Screening of extended spectrum beta lactamase producing coliforms isolated from commercial establishments in Metro Manila, Philippines. EAC Research Bulletin, 2009, 8(1):1-9.
- 2009 Basit, S.A. Comparison of DNA extraction methods for muscle tissues of tuna and tuna-like species: Its implications for identification using polymerase chain reaction. Emilio Aguinaldo College Research Bulletin, 2009, 7(1).

- 2008 Basit, S. Developing cognitive competency in nursing care and management of communicable diseases in an interdisciplinary team learning environment. *Philippine Journal of Nursing Education*, 2008.
- 2008 Basit, S.A. A cluster analysis on bacterial contamination of student nurses' uniform in a tertiary hospital. *Philippine Journal of Nursing Education*, 2008.
- 2007 Basit, S. Surrogate decision-making for incompetent geriatric patient: A case study in Philippine setting. *Scientificus*, 2007.
- 2007 Basit, S.A. Probing the alternative conceptions and mental model reasoning of medical technology interns in hypersensitivity reactions through computer animations. *EAC Research Bulletin*, 2007.
- 2006 Basit, S.A. Design, development, and evaluation of modular instruction in clinical mycology for medical technology students. *Scientificus*, 2006.
- 2003 Basit, S.A. Evaluation of the 12-Hour Residual Effectiveness of Two Antibacterial Soap Products. Procter and Gamble, Philippines and PAMET Joint Research, 2003.

Name Angelica M. Baylon

Gender Female

Civil Status Single

Organizational Affiliations

MAAP Pioneer Research & Extension Services Director, Maritime Academy of Asia and the Pacific (MAAP)-AMOSUP-PTGWO-ITF, since 1999 to date

Director for Research and Extension Services Administrator, MAAP-AMOSUP, Professional Development Career Center Maritime Academy of Asia and the Pacific Mariveles Bataan, Ba

Editor, MAAP Research Journal,

Education

Master in Shipping Business and Mangement, Philippine Merchant Marine Academy, Zambales 2002

PhD. in Educational Management (High Distinction), Manila Central University, Manila 1999

B.S. Chemistry (Cum laude), Far Eastern University, Manila

MBA and EdD, Far Eastern University, Manila

Fields of Specialization

Governmental

Educational and International Policies

Employment

International Exchange Professor, Bataan Peninsula State University, 2010 O-2011 O-

Instructor, Far Eastern University, 1987-1996-

Istructor, Philippine Women University Graduate School, 1993 N-1997 Je-

Director for Research and Development, Philippine Merchant Marine Academy (PMMA), 1997-1998-

Asst. Professor, University of the Philippines, 1993-1996-

Executive Maritime Dean and Dean for General Education, Maritime Academy of Asia and the Pacific (MAAP), 1999 My-2000 O-

Professor IV, Philippine Womens University, 1993-1997-

Director for Research and Development, Philippine Merchant Marine Academy, 1997-1998-

Professor IV, Philippine Women University Graduate School, 1993-1997-

Association Membership

Member, PMMA Alumni Association

Member, National Research Council of the Philippines (NRCP)

Incorporator, National Federation of Center For Human Rights Education

Member, International Exchange and Cooperation Project on SPIL
Consultant, Lyceum International Maritime Academy (LIMA)
Consultant and Honorary Member, Philippine Naval Reserve Command (NAVRESCOM)
Member, Board of Trustees, (WIMAPHIL) Women in Maritime Philippines Inc.

Honors / Awards

CHED Commissioner William Medano Best Research Management Paper (4th placer- 30 paper entries), Aklan State University 2010 Ap 10
Int'l Roberto Padua Research Impact Award, University of Northern Philippines 2010 Ap 29
Special Citation Award, UNAP/UNYAP
National Outstanding Extension Services Leadership Award, Aklan State University 2010 D11
Nominated as Receiver of the Outstanding Asian Research Leader Award, 2011
Asian Research Leadership Award (out of 263 entries), Liceo De Cagayan University 2011 Ag 17-20
Certificate of Recognition (with generous honorarium), SPIL 2009 D 17
Certificate of Recognition, BPSU-CHED 2009 N 13
Certificate of Recognition (with 1000 US Dollar), KMU (8th AMFUF) 2009 N 5
Asia MET Summit Grant, 2009
2009 Plaque of Recognition as CHED National Best in Physical Facilities, Students Services Program 2009 Ap 17
Regional CHED Certificate of Appreciation, CHED 2009
Challenges Problems, Issues and Priorities in Philippine MET from the Maritime Schools and Training, NRCP team at MAAP on December 17, 2012 2012 F
Plaque of recognition as PhilArm Cluster Chair (BOD) for Luzon 2010-2012, Philarm National Convention with theme "Nurturing Social Responsibility among Research Managers, D 2012 Ap 10-12

Trainings

BIT's 1st Annual World Congress of Ocean 2012 with theme : New Wave of World Marine Economy, Bohai Sea Green Pearl Cruise Ship and World Expo Center in Dalian, China 2012 S 20-23
International Conference: Innovative Research in a Changing and Challenging World (IRCCW), Graceland Park and Spa Resort, Phuket, Thailand 2012 My 16-18
17th International Maritime Leaders' Association Conference (IMLA) with theme: MET: The Key to Marit, La Palm Beach Royal Hotel, Accra Ghana, Africa 2009 S 8
17th International Maritime Leaders' Association Conference (IMLA) Conference, Regional Maritime University, Accra Ghana, Africa 2009 S 7-10
2009 East Asian Congress with theme "Partnerships at Work: Local Implementation and Good Practices a, Philippine International Convention Center, Manila Philippines 2009 N 25

International Conference on Shipping Ports and International Logistics with theme "Maritime Crisis:", BEXCO Conventional Hall, Busan, South Korea 2009 D 17-18

National Capacity Building Training for Devt. Practitioners on Access and Equity in Development, Universdad De Zamboanga, at Lantaka Hotel by the Sea 2009 O 8-10

Researches

Completed

PAEPI proposed NRCP-PAEPI Workshop on Policy Advocacy Proposed Bill Republic Act 888 on Magna Carta for Extension Workers

PAEPI Policy, Guidelines, Standards and Criteria for Performance Recognition in Extension or PAEPI Recognition Policy

Papers Presented

Baylon, A.M. (2012 S 20-23). The Global Seafaring Challenges, Opportunities and Threats from the Philippine Maritime Stakeholders Viewpoints, BIT's 1st Annual World Congress of Ocean 2012 with theme : New Wave of World Marine Economy, Bohai Sea Green Pearl Cruise Ship and World Expo Center in Dalian, China.

Baylon, A.M. (2012 My 16-18). Challenges in Philippine MET, International Conference: Innovative Research in a Changing and Challenging World IRCCW), Graceland Park and Spa Resort, Phuket Thailand.

Baylon, A. (2012 Ag 22-25). Impact of the Seafaring Lifestyle on Family: MAAP Seafarers Viewpoints, Marco Polo Plaza Hotel.

Baylon, A. (2009 S 8). Contributing to the Total Development of Students Through Best MET Practices and Services: A Key to Competent Seafarers for Maritime Safety, 17th International Maritime Leaders' Association Conference (IMLA) with theme: MET: The Key to Maritime Safety, Security and Environmental Protection, La Palm Beach Royal Hotel, Accra Ghana Africa.

Baylon, A. (2009 O 19-21). The MAAP Quality Assurance Framework: Supporting Students' Total Development Into Quality Graduates, 8th Asia University Presidents Forum on Quality Assurance In Higher Education held at Hotel Borobudur, Jakarta Indonesia.

Baylon, A. (2009 N 25). Addressing Climate Change Concerns in Bataan Province and Manila Bay Through Private-Public Partnerships: The Bataan Coastal Care Foundation Experience (BCCFI), 2009 East Asian Congress with theme "Partnerships at Work: Local Implementation and Good Practices and Subtheme Natural and Man Made Hazard Prevention and Management, Philippine International Convention Center, Manila Philippines.

Baylon, A. (2009 Mr 4). Contributing to the Total Development of Students through Philippines, Best MET Practices to Meet the Challenges of the Shipping Industry, First Asia MET Summit, Longemont Hotel, Shanghai, China.

Baylon, A. (2009 D 17-18). Addressing Global Maritime Crisis: The Philippine Shipping Market Stand 9, International Conference on Shipping Ports and International Logistics with theme "Maritime Crisis: Opportunities and Challenges, at BEXCO Convention Hall, Busan, South Korea.

Baylon, A. (2009 Ag 6). Integrating MDGs in Planning, Implementation, Monitoring and Evaluation of PAEPI Extension Services Programs, 10th International Youth Day Celebration and Youth and Educators Summit for the Millennium Development Goals (YES 4 MDGs!): Sustainability for Millennium Development Goals at the University of Makati, Philippines.

Baylon, A. (2009 Ag 5). The MAAP Nominees for the UNAP - OYLA: The Students' Achievement in Academics, Innovation Leadership and Innovation, 10th International Youth Day Celebration and Youth and Educators Summit for the Millennium Development Goals (YES 4 MDGs!): Sustainability for Millennium Development Goals at the University of Makati, Philippines.

Publications

- 2011 Baylon, A. PAEPI Biennial Publication. ISSN-2094-7763, 2011 My 15.
- 2010 Baylon, A. MAAP Extension Services Manual. Dept. of Research and Extension Services-MAAP (ISBN-978-971-94289-0-1), 2010 My 20.
- 2010 Baylon, A. MAAP Chemistry Module. ISSBN-978-971-94829-1-8, 2010 My 20.
- 2009 Baylon, A. MAAP MET Programs: Ensuring Continous Supply of Competent Seafarers for the Global Fisheries and Maritime Industry. The 8th AMFUF International Conference Proceedings with theme Manning Education and Training,(Secretary General E.E Mitropoulus as GOH and Speaker) held in Korea Maritime University, Busan, Korea on 2009 N 2-5, 2009 N 2-5:pp.15.
- 2009 Baylon, A. Addressing Global Maritime Cris: The Philippine Shipping Market Stand. International Conference Proceedings on Shipping Ports and International Logistics with theme "Maritime Crisis: Opportunities and Challenges, at BEXCO Convention Hall Busan, South Korea on 2009 D 17-18, 2009:pp10.
- 2009 Baylon, A. The MAAP Quality Assurance Framework: Supporting Students' Total Development Into Quality Graduates. 8th Asia University Presidents Forum Proceedings with theme Quality Assurance In Higher Education, Hotel Borobudur, Jakarta, Indonesia on 2009 O 19-21, 2009:pp.10.
- 2009 Baylon, A. Contributing to the Total Development of Students through Philippines Best MET Practices to Meet the Challenges of the Shipping Industry. Proceedings of the 2009 Asia MET Summit: Meeting the Challenges of the Shipping Industry held at Longemont Hotel, Shanghai, China 2009 Mr 4-5, 2009:pp.12.
- 2006 Baylon, A. MAAP Research Manual. ISBN ongoing, 2006 S 15.
- 2004 Baylon, A. MAAP Research Journal. ISSN-1656-555X, 2004 O 15.

Name Olivia C. Caoili
Place of Birth Laoag, Ilocos Norte, Philippines
Date of Birth November 29, 1940
Gender Female
Civil Status Married
Home Address L16,B2, Bonn St., Corner Berlin, Capitol Park Homes, Quezon City
Philippines

Organizational Affiliations

Director, Office Research Coordination, University of the East, Manila

Professorial Lecturer V, Dept. of Political Science, CSSP and Technology Management Center, UP, Diliman, Quezon City

Education

Master of Arts, University of Hawaii, Hawaii, USA 1965 Je

Major: Political Science and Public Administration, Cornell University, Ithaca, New York 1965 Ja

Bachelor of Arts, University of the Philippines, Diliman, Quezon City 1961 N

Fields of Specialization

Social Sciences

Political Science

Modern Political Analysis

Political Development

Public Administration

Employment

Research Assistant, University of the Philippines, College of Public Administration, 1962 Ja- 1963 F-

Instructor, University of the East, College of Liberal Arts and Sciences Department of Political Science, 1965 JI-1969 My-

Assistant Professor, University of the East, College of Liberal Arts and Sciences Department of Political Science, 1969 Je-1975 Ag-

Lecturer, University of the Philippines, Clark Air Base Branch, 1966 My-1968 Ja-

Researcher I, Center for Policy and Development Studies U.P. at Los Banos, 1975 Ag 18-1980 D 31-

Researcher II, Center for Policy and Development Studies University of the Philippines at Los Baños, 1981 Ja-1983 My 31-

Professorial Lecturer, Management of Rural Development Program College of Development Economics, 1982-1983-

Officer-in-Charge, Center for Policy and Development Studies University of the Philippines at Los Banos, -

Associate Professor of Political Science, College of Social Sciences and Philosophy, UP Diliman, 1983 Je-1988 Ja-

Officer-in-Charge, Department of Political Science College of Social Sciences, 1985 N 7-D 6-

Chairman, Department of Political Science College of Social Sciences and Philosophy, 1987 My 1-1990 Ja 31-

Professor of Political Science (2),, College of Social Sciences and Philosophy, UP Diliman, 1988 F-1991 Je 30-

Vice-Chancellor for Student Affairs, U.P. Diliman, 1990 Ja-1992 Ag 31-

Professor of Political Science (5), College of Social Sciences and Philosophy, U.P. Diliman, 1991 Jl-1992 N-

Professor of Political Science (7), College of Social Sciences and Philosophy, U.P. Diliman, 1992 N-1993 My 31-

Secretary of the University and of the Board of Regents, University of the Philippines, 1992 Ag 27-1993 N 30

Association Membership

President, National Research Council of the Philippines

Member, University of the East Faculty Association

Member, University of the East, College of Liberal Arts Faculty Club

Member, Phi Kappa Phi Honor Society, University of the Philippines

Vice-President, Phi Kappa Phi Honor Society, University of the Philippines

Member, Pi Gamma Mu Honor Society, University of the Philippines

Member, Canadian Political Science Association

Member, Philippine Political Science Association

Secretary, Philippine Political Science Association

Associate Member, National Research Council of the Philippines

Editor and Chairman of Board of Editors, Philippine Political Science Journal

Elected Full Member, National Research Council of the Philippines

Elected Vice-Chairman of the Executive Committee, Division VIII, Social Sciences, National Research Council of the Philippines

Elected Chairman, Division VIII, Social Sciences, National Research Council of the Philippines (NRCP)

Secretary of the Governing Board, National Research Council of the Philippines

Vice-President, National Research Council of the Philippines

President, National Research Council of the Philippines

Chairperson, Program Committee/Member of Steering Committee and Panel Chairperson, Centennial Congress on Higher Education in the Philippines

Moderator, Session V, Governance, Civil Society and Social Justice, 20th Annual

Scientific Meeting, National Academy of Science and Technology, Westin Philippine Plaza

Discussant, Forum-Discussion on Electoral Problems: Roots and Responses in the Philippines, University Center for Integrative and Development Studies (UCIDS) University of the Philippines

Representative of the University of the Philippines to Connecting Knowledge in Communications: Bridg, International Network of UNESCO

Representative of President Emil Q. Javier University of the Philippines, U.P. Alumni Association Institute on Developments in Agriculture and Biotechnology, Kasetsart Univer

Honors / Awards

Valedictorian, Isabelo de los Reyes Elementary School, Tondo, Manila 1953 Ap

Valedictorian, Ilocos Norte High School, Laoag City 1957 Mr

Entrance Scholarship, University of the Philippines, Diliman, Quezon City 1957 JI

College Scholarship/University Scholarship, University of the Philippines, Diliman, Quezon City 1957-1961

Undergraduate Scholarship, SEATO (Southeast Asia Treaty Organization)/ University of the Philippines 1960-61

Bachelor of Arts, Cum Laude, University of the Philippines 1961 N

East-West Center Graduate Scholarship, University of Hawaii and Cornell University 1963 S-1965 Je

Queen's University Graduate Award, Kingston, Ontario, Canada 1972 S - 1974 Ag

Queen's University Teaching Assistantship, Kingston, Ontario Canada 1974 S - 1975 Je

Thesis Research Award, International Development Research Centre, Canada 1976 S-1979 Ag

Fellowship for Ph.D. Degree, EDPITAF(RP-IBRD) 1979 S- 1980 F

Trainings

42nd PAGE National Assembly, Sapphire Anniversary, Fiesta Pavillion, Manila Hotel 2007 S 25

103rd Foundation Anniversary of the Polytechnic University of the Philippines, Polytechnic University of the Philippines, Bulwagan Balagtas, NALLRC, TUP 2007 O 4

1st National Congress on "You Think: Uplifting the Youth's Awareness on Charter Change, Association, Quezon City Session Hall, Quezon City 2007 F 3

2nd Conference on Graduate Research University of the Philippines Visayas, UPV Auditorium, Iloilo City 2007 D 15

Asian Consortium for Political Research Joint Workshop, BKKY University of Seoul, South Korea 2007 Ag 3-4

Joint Worskshop of the Asian Consortium for Political Research, Chuo University, Kora Kuen Campus, Tokyo, Japan 2005 S 27-29

The Korean Association of International Studies and Asia-Europe Foundation, The Tower Hotel, Seoul, Korea 2004 Je 3-4

Policy Analytic Process, Lecture in Introductory Training in Policy Analysis, Los Banos, Laguna,(SEARCA and PCARRD) 2003 My 7-8

Symposium on Graft and Corruption, The University of Santo Tomas, Research Center Seminar Room, Manila 2002 F 25

Forum on Electoral Reform/sponsored by the National Research Council of the Philippines, Sulo Hotel, Quezon City 2002 D 5

4th National Congress on Higher Education, Manila Midtown Hotel 2001 My 17-18

The European-Asian University Partnership Network (ASEA-UNINET) Meeting of National Co-ordinators, Hotel Europa Tyrol, Innsbruck, Austria 1998 O 11-14

Workshop on Staff and Student Exchanges, Novotel Orchid Hotel, Singapore 1997 O 1-2

17th World Conference on Distance Education, Birmingham, United Kingdom 1995 Je 25-30

Third World Countries, International Conference of the Committee on Constitutional Viability, State University of New York in Buffalo, New York 1994 Mr 17-20

ASEAN University Network Workshop on ASEAN Studies, Pathumwan Princess Hotel, Bangkok, Thailand

Papers Presented

Caoili, O.C. (2007 S 25). Multi-Disciplinary and Trans-Institutional Collaborative Researches: Focus on Science and Technology, 42nd PAGE National Assembly, Sapphire Anniversary, Fiesta Pavillion, Manila Hotel.

Caoili, O.C. (2007 O 4). Achieving the Vision of a Total University: The Role of Research , 103rd Foundation Anniversary of the Polytechnic University of the Philippines, Bulwagan Balagtas, NALLRC, Polytechnic University of the Philippines .

(2007 O 4). 103rd Foundation Anniversary of the Polytechnic University of the Philippines, Polytechnic University of the Philippines, Bulwagan Balagtas, NALLRC, TUP.

Caoili, O.C. (2007 O 16). Legislatures and Democratic Government: The Philippine Experience, National Historical Institute.

Caoili, O.C. (2007 N 26). The Cutting Edge of Technology , 5th Annual Meeting, NRCP Mindanao Cluster, Davao City.

Caoili, O.C. (2007 Ja 18). May Puwang Ba and Environmental Reporting sa Campus Publication? , Organization Student Services Educators, Inc. (OSSE), Bayview Park Hotel, Manila, Philippines .

Caoili, O.C. (2007 F6). Philippine Government and Politics, Foreign Service Institute, Department of Foreign Affairs .

Caoili, O.C. (2007 F 5). Charter Change: Issue and Problems, College of Arts and Sciences Week, Pamantasan ng Lungsod ng Pasig, Pasig City.

Caoili, O.C. (2007 F 3). Parliamentary and Presidential, Unitary and Federal Systems of Government, 1st National Congress on "You Think: Uplifting the Youth's Awareness on Charter Change", Association of Political Science Organization of the Philippines (APSOP), Quezon City Session Hall.

Caoili, O. C. (2007 F 6). Philippine Government and Politics, The Foreign Service Institute, Department of Foreign Affairs.

Caoili, O.C. (2007 D 15). The Role of Graduate Research in a University, 2nd Conference

on Graduate Research University of the Philippines Visayas, UPV Auditorium, Iloilo City Campus.

Caoili, O.C. (2007 Ag 3-4). Democracy and Political Development; The May 2007 Election in the Philippines, Asian Consortium for Political Research Joint Workshop, BKKY University of Seoul, South Korea.

Caoili, O. C. (2006 N). The Restored Philippine Congress, Philippine Legislature during Martial Law.

Caoili, O. C. (2006 Je 23). Understanding the Proposed Charter Change: Parliamentary and Federal Systems of Government, 101th Financial Executives Institute of the Philippines (FINEX) Forum, Political Science 101, Yakal Room Dusit Hotel Nikko, Pasay Road, Makati Commercial Center, Makati City.

Caoili, O. C. (2005 S 27-29). The Discipline of Political Science in the Philippines, The Joint Workshop of the Asian Consortium for Political Research at Chuo University, Kora Kuen Campus, Tokyo, Japan.

Caoili, O. C. (2005 S 27-29). Why and How Democracies Endure in East Asia: the Philippines, The Joint Workshop of the Asian Consortium for Political Research, Chuo University, Kora Kuen Campus, Tokyo, Japan.

Caoili, O.C. (2005 S 27-29). The Discipline of Political Science in the Philippines, The Joint Workshop of the Asian Consortium for Political Research, Chou University, Kora Kuen Campus, Tokyo, Japan.

Caoili, O. C. (2005 O 24-25). Interdisciplinary Research Collaboration on Environmental Issues, the NRCP Mindanao Cluster Conference, Capitol University, Cagayan de Oro City.

Caoili, O. C. (2005 O 20-22). People Power and the Philippine Legislature, The National Conference of the Philippine Political Science Association on the theme: Bringing the People Back In, Tagbilaran Bohol.

Caoili, O. C. (2004 Je 3-4). A Century of Democracy in the Philippines: Challenges and Issues, The Korean Association of International Studies and Asia-Europe Foundation, The Tower Hotel, Seoul, Korea.

Caoili, O. C. (2004 Je). A Century of Democracy in the Philippines: Challenges and Issues, The Tower Hotel, Seoul, Korea, 3-4 June 2004, in Compilation of Papers on Democracy in Asia, Europe, and the World: Toward a Universal Definition, The Tower Hotel, Seoul, Korea.

Caoili, O. C. (2004 Ag 19). Constitutional Change, Lecture in Academe Meets Government Forum on Dancing the ChaCha Again, The College of Arts and Sciences, CAS Auditorium, UP Los Banos.

Coili, O. C. (2003 My 7-8). Policy Analytic Process, Lecture in Introductory Training in Policy Analysis, Sponsored by SEARCA and PCARRD, Los Banos, Laguna.

Caoili, O. C. (2002 N 8-9). The Teaching of Political Science: Area I, International Conference on Political Science held at Cebu Plaza Hotel, Cebu City.

Caoili, O. C. (2002 Ja 31). Discussant, Forum-Discussion on Electoral Problems: Roots and Responses in the Philippines, Sponsored by the University Center for Integrative and Development Studies (UCIDS), University of the Philippines, and Department of Political Science, College of Social Sciences, U.P. Diliman, held at Benitez Hall, Alumni Center, UP Diliman.

Caoili, O. C. (2002 F 25). National Research Council of the Philippines, Symposium on Graft and Corruption, The University of Santo Tomas, Research Center Seminar Room.

caoil, O. C. (2002 F 14). Issues in Philippine Public Administration , National Defense College of the Philippines, Quezon City.

Caoili, O. C. (2002 D 5). Politics and Government in Human Resources Development Management: Perspective From Academe,? delivered, the National Conference of the Personnel Officers Association of the Philippines held at the GSIS Auditorium, Pasay City.

Caoili, O. C. (1998 N 15-21). Overall Coordinator for Breeder Sciences for the Consortium University of Ateneo de Manila University, De la Salle University and University of the Philippines, Administrative visit to Japan Society for Promotion of Science (JSPS), , Nov. 15-21, 1998., Japan, Sophia University, Tokyo University, Waseda University, Nagoya University and Kyoto University.

Caoili, O. C. (1998 My 28-29). Chairperson, Program Committee; Member of Steering Committee and Panel Chairperson, "Centennial Congress on Higher Education in the Philippines, the Commission on Higher Education, PASUC, FAPE, and COCOPEA, Manila Midtown Hotel, Ermita, Manila..

Caoili, O. C. (1997 N 16-22). Overall Coordinator for Breeder Sciences for the Consortium University of Ateneo de Manila University, De la Salle University and University of the Philippines, Administrative visit to Japan Society for Promotion of Science (JSPS),, Japan, Sophia University, Tokyo University, Waseda University, Nagoya University and Kyoto University.

Caoili, O. C. (1997 My 7-8). Philippine Delegation to the Joint Meeting on Education and Culture, Ministry of External Affairs, Mexico City.

Caoili, O. C. (1996 Ag 13-14). International Conference on "Universities Singapore Education in a Borderless World", British Council and IDP in the 21st Century.

Caoili, O. C. (1995 My 22-23). The Long Term Higher Education Development Plan," First National Congress on Higher Education," Philippine Higher Education: Vision 2000, The Philippine Commission on Higher Education, Manila Midtown Hotel.

Padolina, C. B., Caoili, O. C. (1995 D 3-5). An Open University within a University System, 9th Annual Conference on Asian Association of Open Universities, Taipei, Taiwan.

Caoili, O. C. (1994 Mr 17-20). Parliamentary versus Presidential Systems: Constitutional Reform, Third World Countries, International Conference of the Committee on Constitutional Viability, the State University of New York in Buffalo, New York.

Caoili, O.C., Roman, E.R., Abueva J. V. (1994). Assessment of the Performance of the Philippine Congress 1988-1992, The Post EDSA Vice-Presidency, the Senate and House of Representatives, Judiciary and the Ombudsman (1986-1992): Self-Assessments and External Views and Assessments.

Caoili, O. C. (1993-1995 N 17). Values Education and Productivity in Science and Technology, 4th Seminar Series on "Values Education and Productivity in Science and Technology", held at Ateneo de Zamboanga, Zamboanga City.

Caoili, O. C. (1993 My 4-5). Framework and Dimensions of Science and Technology Culture" in Research Management and Science and Technology Culture, (Proceedings of the Seminar -Workshop on Research Management and Science and Technology Culture, Continuing Education Center.

Caoili, O.C. (1991 Mr 1). Management of student organizations, Paper read at the

Management Seminar for Deans of Engineering Schools, at the STTC, UP Diliman, Quezon City.

Caoili, O. C. (1991 JI 22). The Philippine Congress: Executive-Legislative Relations and the Restoration of Democracy, 15th World Congress of the International Political Science Association, Buenos Aires, Argentina.

Caoili, O. C. (1991 JI 21-25). The Philippine Congress: Executive-Legislative Relations and the Restoration of Democracy,, Buenos Aires, Argentina, updated as State of the Nation Report No. 8, (Quezon City: U.P. Press and Center for Integrative and Development Studies, June 1993), 15th World Congress of the International Political Science Association.

Caoili, O. C. (1991 F 28). Policymaking for Science and Technology in the Philippines: Changing Structures, Processes and Directions, Faculty Center Conference Hall, UP Diliman, Diamond Jubilee Professorial Chair.

Caoili, O. C. and Jorge, B. (1991 Ag 23). Philippine Historical and Political Developments and Processes, the Evolution of Filipino Nationalism" in Nasaan ang Bayan? Our Quest for Nationhood , Vargas Centennial, Faculty Center Conference Hall, UP Diliman.

Caoili, O.C. (1990 Mr 15-16). Notes on Philippine Patent Law, Technology, Transfer Policies and Economic Development, Third World Patent Convention, National working Group on Patent Laws, New Delhi, India.

Caoili, O. C. (1990 F-1). The Roots of Our Constitutional Crisis, The Malcolm Hall, U.P. Diliman..

Caoili, O. C. and Vargas, J. B. (1990 Ag 23). The Commonwealth Government and the Role of Jorge B. Vargas,"at the Jorge B. Vargas Museum, The Conference on the Life and Times of Jorge B. Vargas, U.P. Diliman.

Caoili, O. C. (1989 S 7-8). The Interface Between Science, Technology and Society: The Case of the Philippines , Asian Workshop on the Interface Between Science, Technology and Society, Giri Institute, Lucknow, India .

Caoili, O. C. (1989 N 18). Hinggil sa Pananagutan at Katiwalian sa Pamahalaan: Sa Pananaw ng Agham Pampulitika, Pambansang Kumperensiya sa Sikolohiya sa Pilipinas, Malcolm Hall, Unibersidad ng Pilipinas.

Caoili. O. C. (1989 D - 1990 Ja). Understanding the December 1989 Coup d'Etat, Marikina School of Arts and Trades.

Caoili, O. C. (1988 JI 1). Governance: Issues/Problems and the Role of the University of the Philippines, Faculty Conference Workshop, UP College Baguio.

Caoili, O. C. (1988 F 13). Science, Technology and Society: Notes on Philippine Development, The Third Annual Meeting of the Local Initiatives in Science and Technology (LIST), PCED Hostel, UP Diliman, Quezon City.

Caoili, O.C. (1986 S 12). The Batasang Pambansa: Continuity in the Philippine Legislative System, The celebration of Political Science Week at the Faculty Center Conference Hall, College of Social Sciences and Philosophy, University of the Philippines, Diliman, Quezon City.

Caoili, O. C. (1986 Je). A History of Science and Technology in the Philippines, University of the Philippines Science Research Foundation.

Publications

- 2009 Caoili, O.C. Introductory Chapter, in NRCP at 75: Bringing ideas to life. National Research Council of the Philippines (Bicutan), 2009 D.
- 2009 Caoili, O. C. Contributor, one hundred narratives. University of the Philippines Open University, 2009.
- 2007 Caoili, O. C. The University of the East and the Development of Human Resources. UE Research Bulletin, 2007, 9:69-100.
- 2006 Caoili, O.C. Restored Philippine Congress, Philippine Politics and Governance: An Introduction. Department of Political Science, CSSP, UP Diliman, Quezon City, 2006 N.
- 2004 Caoili, O.C. A century of democracy in the Philippines: Challenges and issues. Compilation of Papers on Democracy in Asia, Europe, and the World: Toward a Universal Definition, The Korean Association of International Studies and Asia-Europe Foundation, 2004 Je:259-288.
- 2003 Caoili, O.C., Santiago, L.Q. et al Isang kasaysayan ng agham at teknolohiya sa Pilipinas. In: Agham, Teknolohiya at Lipunan; Mga Babasahin sa STS, University of the Philippines Press, 2003.
- 2002 Caoili, O.C., Abueva, J.V., Roman, E.R. Assessment of the Legislative-Executive Development Advisory Council (LEDAC) during the Administration of President Fidel Valdez Ramos. Self-Assessments and External Views and Assessments, 2002, 1.
- 2001 Abueva, J.V., et al. Alternative views and assessment of higher education. In: Alternative Views and Assessment of the Macapagal-Arroyo Presidency and Administration: Record and Legacy, 2001-2004, 2:274-277.
- 2000 Caoili, O.C., Valenzuela, E. The internationalization of higher education in the Philippines. In: UNESCO National Commission of the Philippines, The Reform and Development of Philippine Higher Education, (Mona Dumlao Valisno, ed.) UNESCO National Commission of the Philippines, Manila, 2000:153-186.
- 1994 Caoili, O.C. et al. Legislative-executive relations in the Philippines and the parliamentary alternative. In: Views on the Parliamentary Versus Presidential Government, State of the Nation Research Reports, 1994 Je.
- 1994 Caoili, O.C., Baviera, A., Herrin, A.N. Population and development: Perceptions and prospects for consensus on population policy. In: Population, Human Resources & Development, 1994, 3:1221-1261.
- 1994 Caoili, O.C. Assessment of the Performance of the Philippine Congress. University of the Philippines, 1994, 3:103-115.
- 1993 Caoili, O.C. Values education and productivity in Science and Technology. National Research Council of the Philippines and the Department of Science and Technology, Ateneo de Zamboanga, Zamboanga City, 1993-1995 N 17, 42(2):8-21.
- 1993 Caoili, O.C. Framework and Dimensions of Science and Technology Culture. University of the Philippines Los Banos, College, Laguna, Philippines, 1993 My 4-5:37-60.
- 1992 Caoili, O. C., Morales, L. M., and Natalia, M Policymaking for science and technology in the Philippines: Changing structures, processes and directions. In: Politics, Science and Democracy, 1992:47-83.
- 1991 Caoili, O. C. Management of student organizations. Paper read at the Management

- Seminar for Deans of Engineering Schools, at the STTC, UP Diliman, Quezon City, 1991 Mr 1.
- 1990 Caoili, O. C. Notes on Philippine patent law, technology, transfer policies and economic development. *Philippine Political Science Journal* , 1990 Je-D, 31-32:75-90.
- 1989 Caoili, O. C. The Interface between Science, Technology and Society: The Case of the Philippines. Paper delivered at the Asian Workshop on the Interface Between Science, Technology and Society, held at the Giri Institute, Lucknow, India, 1989 S 7-8:46.
- 1989 Caoili, O.C. Governance:Issues/Problems and the Role of the University of the Philippines. *Philippine Journal of Public Administration*, 1989 Ap, 33(2):101-120.
- 1986 Caoili, O.C. The Batasang Pambansa: Continuity in the Philippine Legislative System. *Philippine Journal of Public Administration*, 1986 Ja, 30(1):36-59.
- 1983 Caoili, O.C. The Social Sciences in the Philippines: A Retrospective View. In: *Towards Excellence in Social Science in the Philippines/ Papers and Proceedings of the First National Social Science Congress*, University of the Philippines Press, Quezon City, 1983 N 17-19:58-85.
- 1983 Caoili, O. C. A history of higher education in science and technology in the Philippines. *Philippine Social Sciences and Humanities Review*, 1983 Ja-D, 47 (1-4):305-325.
- 1983 Caoili, O. C. Techniques and ethics in public administration. *Philippine Journal of Public Administration*, 1983 Ja, 27(1):87-92.
- 1983 Caoili, O.C. Underemployment and unemployment of scientists and engineers: Reflections for Science Policy. Monograph Series No. 2, Center for Policy and Development Studies, University of the Philippines at Los Banos (Mimeo.), 1983 Fe:26.
- 1982 Caoili, O. C. Science policy and national development: The Philippine experience. Monograph Series No. 1, Center for Policy and Development Studies, University of the Philippines at Los Banos (Mimeo.), 1982 O:102.
- 1980 Caoili, O.C. Science Policy in the Philippines: The Education and Training of Scientists and Engineers. Ph.D. Thesis, Queen's University, Kingston, Ontario, Canada, 1980 Ag:578.
- 1978 Caoili, O. C. Reversing the brain drain: The "Balik" Scientist Program in the Philippines . Occasional Paper No. 12, College of Public Administration, University of the Philippines, 1978 N:20.
- 1977 Caoili, O.C. The psychological dimensions of development: Implications for Policy. *Philippine Planning Journal*, 1977 Ap, 8(2):31-61.
- 1976 Caoili, O.C. The critical rationalist alternative. *Philippine Political Science Journal*, 1976 D(4):91-111.
- 1976 Caoili, O.C. The Ilchman-Uphoff model of political economy: An operational research design on social status. *Philippine Journal of Public Administration*, 1976 Ap, 20(2):180-192.
- 1975 Caoili, O. C. A survey of training programs related to development administration. Mimeo - UPLB/CPDS, 1975 D.
- 1971 Caoili, O. C. The development of studies on administrative behavior. *University of the East Political Science Review* , 1971 Ja - Ap, 1(1):46-65.

Caoili, O.C., Herrin, A.N. Population, Human Resources and Development Policies. A Review of Policy-Making and its Consequences or Impacts, on Population, Health and Nutrition Policies, 3:1185-1221.

Name Bonifacio F. Cayabyab
Place of Birth Tarlac, Tarlac
Date of Birth November 30, 1953
Gender Male
Civil Status Single
Home Address DM Lantican St., Jubileeville Subd. Masaya, Bay, Laguna

Organizational Affiliations

Scientist, Plant Quarantine Support Laboratory, National Crop Protection Center, UPLB, College, Laguna

University Researcher IV, Crop Protection Cluster. National Crop Protection Center, UPLB, College, Laguna

Research Mentor, CHED-UPLB Zonal Research Center, Manuel S. Enverga University Foundation, Lucena City

Education

Ph.D. in Entomology, University of the Philippines, UPLB, College, Laguna 1992

Fields of Specialization

Entomology

Biological Sciences

Plant Pathology

Employment

University Researcher IV, Crop Protection Cluster, NCPC, 1977-

Association Membership

Member, Philippine Association of Entomologists

Member, National Research Council of the Philippines (NRCP)

Honors / Awards

Best Scientific Poster, PMCP, Annual Scientific Convention 2007 Mr 20-23

Best Scientific Poster, NAST 2007 JI 11-12

Trainings

Conference on the Latest Crop Protection Devt. in the Philippines, Cagayan State University Piat Campus 2009 Ap 22

PMCP Scientific Meeting, Puerto Princesa City 2008 My 6-9

National Crop Protection Center, UPLB-CA, Pampanga Agricultural College (PAC) and Corn Farmers, Asturias Hotel, Puerto Princesa City 2008 My 6-9

Insect & Weed Resistance Management, Ilagan, Isabela 2008 My 26-27

COP-MOP 4, Bonn Germany 2008 My 10-16

NRCP Scientific Meeting, Manila Hotel 2008 Mr 12

Biotech Venture Summit, Ateneo School of Medicine, Ortigas 2008 Ap 16-18

Researches

Completed

Butterfly farming and ranching in the Philippines

Migratory Locust R & D in Central Luzon

On Farm Techno-Demo on Onion in Nueva Ecija and Pangasinan

Community based production of *Trichogramma* against Lepidopterous Pest of Corn (COMPUTEC-CONLEP)

Integrated Biological Control of Cabbage Pest and Diseases

Surveillance and identification of post-harvest insect pests and diseases in the Philippines

On-going

Type specimen collection and maintenance of agricultural pests and natural enemies.

Integrated biological control of insect pests and diseases of cabbage

Field ecology studies on migratory locust

Design and test of detection mechanism for mango pulp weevil

Post Commercialization Monitoring of Asian Corn Borer Resistance to Bt Corn in the Philippines and Impact of Pollen Dispersal on Non Target Lepidoptera

Building Pest List to Underpin Agricultural Exports in the Philippines

Database of fruit pests

Papers Presented

Cayabyab, B.F. et al (2012 D 12-15). Population Structure of the Asian corn borer, *Ostrinia furnacalis* (Lepidoptera: Crambidae) in China, Japan and Southeast Asia, ESA 58th Annual Meeting, Windsor Rose (Town and Country Hotel and Convention Center), California, USA.

Cayabyab, B.F., Katimbang, G.A (2011 JL13-14). Diversity in our midst: The Butterfly Nectar Feeders of the DIVIDIVI Tree, *Caesalpinia Coriaria* (JACQ) Wild at up Los Baños, Los Baños, Laguna, 33rd NAST Annual Scientific Meeting.

Cayabyab, B.F (2011 JL13-14). Unusual Population Increase of Woolly Bear Caterpillars, *Spilosoma* sp. (Arctiidae: Lepidoptera) at Los Baños and Vicinity in 2010, 33rd NAST Annual Scientific Meeting.

Cayabyab, B.F, Alcantara, E.P (2011 JL13-14). Some Butterflies of Boracay Island, 33rd NAST Annual Scientific Meeting.

Cayabyab, B.F, (2011 JL 13-14). The Susceptibility of the Lacewing Butterfly, *Cethosia biblis insularis* C & R Felder (Nymphalidae: Lepidoptera) to Cry 1 AB Protein, 33rd NAST Annual Scientific Meeting.

Cayabyab, B.F. (2009 Ap 15). Concerns and needs: Researches on Propagation and post harvest of medicinal plants, Chamber of Herbal Industries of the Philippines, Inc./Summit on Philippine Natural Products Industries, DTI International Bldg., Makati City.

Cayabyab, B.F. (2009 Ap 15). Herbal Medicine, Philippine Association of Medical Technologists, Inc., Laguna Chapter 1st Scientific Seminar for 2009.

Cayabyab, B.F. (2009). Invasive alien species, new indigenous pest and climate change

in the Philippines, Conference on the Latest Crop Protection Devt. in the Philippines, Cagayan State University Piat Campus.

Cayabyab, B.F. (2008 My 6-9). Black Bugs, *Scotniphora coarctata* (Fabricius) (Hemiptera: Pentatomidae) on Corn in Mindanao, PMCP, Asturias Hotel, Puerto Princesa City.

Cayabyab, B.F. (2008 My 6-9). Some Butterflies of Gabaldon, Nueva Ecija, PMCP, Asturias Hotel, Puerto Princesa City.

Cayabyab, B.F. (2008 My 6-9). Trichogramma Production and Utilization: A Partnership Between Crop Protection Cluster, National Crop Protection Center, UPLB-CA, Pampanga Agricultural College (PAC) and Corn Farmers, Asturias Hotel, Puerto Princesa City.

Cayabyab, B.F. (2008 My 6-9). Bioassay of the Asian Corn Borer, *Ostrinia furnacalis* Guenee (Lepidoptera: Pyralidae) to Cry1 AB Protein, PMCP, Asturias Hotel, Puerto Princesa City.

Cayabyab, B.F. (2008 My 26-27). 2008 *Bacillus thuringiensis*, Cagayan Valley Integrated Agricultural Research Center, San Felipe, Ilagan, Isabela.

Cayabyab, B.F. (2008 My 26-27). Insect and Weed Resistance Management for Transgenic Crops, Cagayan Valley Integrated Agricultural Research Center, San Felipe, Ilagan, Isabela.

Cayabyab, B.F. (2008 My 10-16). The Effect of BT Corn on Non Target arthropods , Bonn, Germany.

Cayabyab, B.F. (2008 Mr 12). The Importance of Biological Collections in the Philippines, NRCP Scientific Meeting, Manila Hotel.

Cayabyab, B.F. (2008 Mr 12). Biosafety: The Effect of Cry1 AB Protein on Non-Target Lepidoptera the Great Egg-Fly Butterfly, *Hypolimnas bolina philippensis* L. (Lepidoptera: Nymphalidae), Manila Hotel.

Cayabyab, B.F. (2008 Ap 16-18). The Use of Sentinel Plot as a Tool to Monitor Insect Resistance Development on Genetically Modified Crops, Philippine Biotechnology Venture Summit, Ateneo School of Medicine, Ortigas Ave. Pasig City.

Cayabyab, B.F. (2008 My 6-9). *Liriomyza bryoniae* (Kaltenbach) (Diptera: Agromyzidae): Is it present in the Philippines PMCP, Asturias Hotel, Puerto Princesa City .

Publications

- 2011 Cayabyab, B.F. The Susceptibility of the Lacewing Butterfly, *Cethosia biblis insularis* C & R Felder (Nymphalidae: Lepidoptera) to Cry 1 AB Protein. Transactions of the National Academy of the Science and Technology. Abstracts of Papers, 2011 JI 13-14, 33(1).
- 2011 Cayabyab, B.F., Katimbang, G.A. Diversity in our Midst: The Butterfly Nectar Feeders of the DIVIDIVI Tree, *Caesalpinia Coriaria* (JACQ) Wild at up Los Baños, Los Baños, Laguna. Transactions of the National Academy of Science and Technology. Abstract of Papers, 2011 JL, 33(1).
- 2011 Cayabyab, B.F. Unusual Population Increase of Woolly Bear Caterpillars, *Spilosoma* sp. (Arctiidae: Lepidoptera) at Los Baños and Vicinity in 2010. Transactions of the National Academy of Science and Technology. Abstract of Papers, 2011 JL, 33(1).
- 2011 Cayabyab, B.F. Some Butterflies of Boracay Island. Transactions of the National Academy of Science and Technology. Abstract of Papers, 2011 JL, 33(1).

- 2009 Cayabyab, B.F., Katimbang, G.A., Gonzales, P.G. Penalba, F.P. Some butterflies of the Western side of Mt. Arayat, Pampanga. Transactions of the National Academy of Science and Technology, 2009 JI 8-9.
- 2009 Cayabyab, B.F., Alcantara, E. The Fecundity and Fertility of Field Collected and Corn Stalk Collected Asian Corn Borer, *Ostrinia furnacalis* Guenee. Transactions of the National Academy of Science and Technology. Abstracts of Papers, 2009, 31(1).
- 2009 Cayabyab, B.F., Katimbang, G.A. High Incidence of Land Snails Mortality at Mt. Arayat, Pampanga: An Evidence of Global Warming?. Transactions of the National Academy of Science and Technology. Abstracts of Papers, 2009, 31(1).
- 2009 Cayabyab, B.F., Cuaterno, W.R. Pestnet: An Inexpensive Diagnostics and Pest Management Advisory Tool for Crop Protection Practitioners in the Philippines. Transactions of the National Academy of Science and Technology. Abstracts of Papers, 2009, 31(1).
- 2001 Cayabyab, B.F., Bayot, R.G., Penalba, F.P., Galang, P., Katimbang, G. New butterfly records from Mt. Makiling, Laguna, Philippines. Transactions of the National Academy of Science and Technology, 2001:p. 284.
- 2001 Cayabyab, B.F., Padilla, C.L., Adorada, J.R., Bayot, R.G., Aquino, A.G., Penalba, F.P. The diversity of onion of arthropod fauna in Nueva Ecija. Transactions of the National Academy of Science and Technology, 2001:p.285.
- 1998 Santiago, D.R., Navasero, M.V., Castillo, A.G., Cayabyab, B.F. Selection of the entomopathogenic fungal isolates for virulence toward the oriental migratory locust. Transactions of the National Academy of Science and Technology, 1998, 20:572-573.
- 1998 Cayabyab, B.F. et al. Cabbage insect fauna in the Mountain Province and Ilocos Sur. Transactions of the National Academy of Science and Technology, 1998, 20:567.

Name Francisco S. Chung Jr.
Gender Male
Civil Status Single
Home Address Lot 9 Block 3 Cleveland St., Phase 2A Parkwood Greens,
Maybunga, Pasig City 1607, Manila

Organizational Affiliations

Associate Professor, University of the Philippines, College of Medicine, Manila, Philippines

Visiting Consultant, Department of Pathology, Lung Center of the Philippines, Quezon Aveue, Quezon City

Scientific Officer, Makati Medical Center, Makati City Hospital & Health Care industry

Education

Ph.D. in Pathology and Molecular Medicine, Auckland University, Auckland, New Zealand 2005

MS in Biochemistry, University of the Philippines, Manila 1999

BS Chemistry, Far Eastern University, Manila, Philippines 1991

Fields of Specialization

Pathology and Molecular Medicine

Cancer Cell Biology and Pharmacology

Medicine

Biochemistry

HPLC

Magnetic Activated Cell Sorting (MACS) for stem cell purification;

clinical grade cellular product Cell Biology techniques (FACS, western)

Pharmacokinetics of Drug-drug interactions Drug transporter activity (P-gp)

Employment

Post Doctoral Fellowship, Translational Research Laboratory, Peter McCallum Cancer Institute, 2007-2008-

Post Doctoral Fellowship, University of Washington, Dept. of Pharmaceutics, Seattle, WA 98195 USA, 2004-2006-

Science Research Staff, Marine Science Institute, UPD, 1999-2001-

Research Fellow, Dept. of Pathology and Research and Development, Lung Center of the Philippines, 1996-1999-

Teaching Experience, Chemistry Unit, PSHS, 1996-2001-

Teaching Experience, College of Pharmacy, CEU, 1993-1995-

Chemist, Elechem Plating Industry, Caloocan City, 1991-1993-

Honors / Awards

Balik Scientist Award, DOST 2009
PhD Early Completion Award, The University of Auckland 2004
Post Graduate Programme, Asian Development Bank (ADB) 2001-2004
Research Fellowship, Lung Cancer of the Philippines 1998
Thesis Grant, PCHRD-DOST
Travel Fellowship, Maurice and Phyllis Paykel Trust 2003

Trainings

Australian Soc. for Clinical Experimental Pharmacologists and Toxicologists (ASCEPT) Annual Meeting, Sydney, Australia 2003
New Zealand Society for Oncology Annual Scientific Meeting, Auckland, New Zealand 2003

Papers Presented

Chung, F. (2006). PET Imaging of Inhibition of P-glycoprotein (P-gp) activity at the Blood Placental and Blood-Brain Barrier in the Pregnant Macaca Nemestrina: An OPRU Study, American Association of Pharmaceutical Scientist, San Antonio, Texas, USA.
Chung, F. (2006). Intra and Inter-individual Variability in Lymphocyte P-glycoprotein (P-gp) Activity and Expression as Measured by Fluorescent Activated Cell Sorter, American Association of Pharmaceutical Scientist, San Antonio, Texas, USA.
Chung, F. (2003). Pharmacokinetics studies of Thalidomide in Mice, Rabbits, and Multiple Myeloma Patients, Australian Society for Clinical Experimental Pharmacologists and Toxicologists (ASCEPT) Annual Meeting, Sydney, Australia.
Chung F. (2003). Altered Pharmacokinetics of Thalidomide in Combination Therapy with Cyclophosphamide or DMXAA Role of TNF, New Zealand Society for Oncology Annual Scientific Meeting, Auckland, New Zealand.

Publications

- 2010 Chung, F., Eyal, S., Muzi, M., Link, J.M., Mankoff, D.A., Kaddoumi, A., O'Sullivan, F., Hsiao, P., Unadkat, J.D. Pregnancy Does Not Increase CYP3A or P-Glycoprotein Activity in the Non-Human Primate. *British Journal of Pharmacology*, 2010 Ja.
- 2009 Chung, F., Eyal, S., Muzi M., Link, J.M., Mankoff, D.A., Kaddoumi, A., O'Sullivan, F. Simultaneous PET imaging of P-glycoprotein Inhibition in Multiple Tissues of the Pregnant. *Journal of Nuclear Medicine*, 2009 My.
- 2009 Chung, F., Zhang, H., Wu, X., Naraharisetti, S.B. Pregnancy Does Not Increase CYP3A or P-Glycoprotein Activity in the Non-Human Primate. *The Journal of Pharmacology and Experimental Therapeutics*, 2009 My.
- 2009 Chung, F., Zhang, H., Wu, X., Naraharisetti, S.B., Whittington, D., Mirfazaelian, A. As in humans, pregnancy increases the clearance of the protease inhibitor, nelfinavir. *The Journal of Pharmacology and Experimental Therapeutics*, 2009 Mr.
- 2008 Chung, F., Unadkat, J.D., Sasongko, L., Whittington, D., Eyal, S., Mankoff, D., Collie, A.C. Rapid solid-phase extraction method to quantify [¹¹C]-verapamil, and its [¹¹C]-metabolites, in human and macaque plasma. *Nuclear Medicine and Biology*, 2008 N.
- 2008 Chung, F., Liu, J., Ching, L.M., Baguley, B.C. Consequences of increased vascular

- permeability induced by treatment of mice with. *Cancer Chemotherapy and Pharmacology*, 2008.
- 2007 Chung, F., Liu, J., Ching, L.M., Baguley, B.C. Consequences of increased vascular permeability induced by treatment of mice with 5,6-dimethylxanthenone-4-acetic acid (DMXAA) and the thalidomide. *Cancer Chemotherapy and Pharmacology*, 2007 My1 [Epub ahead.
- 2006 Endres, C.J., Hsiao, P., Chung, F., Unadkat, J.D. The role of transporters in drug interactions. *European Journal of Pharmaceutical Sciences*, 2006 Ap 27, 27(5):504-517.
- 2006 Francisco Chung, Endres CJ, Hsiao P, Chung F, Unadkat JD The role of transporters in drug interactions. *European Journal of Pharmaceutical Sciences*, 2006 Ap.
- 2006 Chung, F. PET Imaging of Inhibition of P-glycoprotein (P-gp) activity at the Blood Placental and Blood-Brain Barrier in the Pregnant Macaca Nemestrina: An OPRU Study. *The AAAPS Journal Abstract R6078*, 2006, 8(82).
- 2006 Chung, F. Intra and Inter-individual Variability in Lymphocyte P-glycoprotein (P-gp) Activity and Expression as Measured by Fluorescent Activated Cell Sorter. *The AAAD Journal Abstract 5133*, 2006.
- 2004 Chung, F., Lu, J., Palmer, B.D., Kestell, P., Browett, P., Baguley, B.C., Tingle, M., Ching, L.M. Thalidomide Pharmacokinetics and Metabolite Formation in Mice, Rabbits and Multiple Myeloma Patients. *Clinical Cancer Research*, 2004 S, 10(17):5949-5956.
- 2004 Chung, F., Lu, J., Palmer B.D., Kestell P., Browett P., Baguley, B.C., Ching, T.M. Thalidomide pharmacokinetics and metabolite formation in mice, rabbits and multiple myeloma patients. *Clinical Cancer Research*, 2004 S.
- 2004 Chung, F., Wang, L.C., Kestell, P., Baguley, B.C., Ching, L.M. Modulation of thalidomide pharmacokinetics by cyclophosphamide or 5,6-dimethylxanthenone-4-acetic acid (DMXAA) in mice: the role of tumour necrosis factor. *Cancer Chemotherapy and Pharmacology*, 2004 My.
- 2003 Chung, F., Wang, L.C., Kestell, P., Baguley, B.C., Ching, L.M. Modulation of Thalidomide Pharmacokinetics by Cyclophosphamide or 5,6-Dimethylxanthenone-4 Acetic Acid (DMXAA) in Mice: The Role of Tumor Necrosis Factor. *Cancer Chemotherapy and Pharmacology*, 2003, 14:75-82.
- 2003 Chung, F., Palmer, B.D., Muller, G.W., Man, H.W., Kestell, P., Baguley, B.C., Ching, L.M. Effect of 3-Fluorothalidomide and 3-Methylthalidomide Enantiomers on Tumour Necrosis Factor Production and Antitumor Responses to the Antivascular Agent 5,6-Dimethylxanthenone-4-Acetic Acid (DMXAA). *Oncology Research*, 2003, 14:75-82.
- 2003 Chung, F., Palmer, B.D., Muller, G.W., Man, H.W., Kestell, P., Baguley, B.C., Ching, L.M. Effect of 3-fluorothalidomide and 3-methylthalidomide Enantiomers on tumour necrosis factor production and antitumor responses to the antivascular agent 5,6-dimethylxanthenone-4-acetic acid (DMXAA). *Oncology Research*, 2003.
- Chung, F. PET Imaging of Inhibition of P-Glycoprotein (P-gp) Activity of the Blood-Placental and Blood-Brain Barrier in the Pregnant Macaca nemestrina: An OPRU Study. *Manuscript in Preparation*, .
- Chung, F. Simultaneous PET Imaging of P-glycoprotein Inhibition in Multiple Tissues of the Pregnant nonhuman Primate. *Manuscript in Preparation*, .
- Chung, F. Rapid Solid Phase Extraction Method to Quantify [¹⁴C] Verapamil-Metabolites in Human and Macaque Plasma. *In Press*, .

Name Leslie Michelle M. Dalmacio
Place of Birth April 9, 1972
Date of Birth Bulacan
Gender Male
Civil Status Single
Home Address 4th Street Marymount Village, Los Baños 4030 Laguna

Organizational Affiliations

Associate Professor 1, UP Manila, Manila

Vice-Chair for Academic Programs, Dept. of Biochemistry and Molecular Biology, UP Manila, Manila

Member, MD-PhD Program Committee, UP College of Medicine, Manila

Course coordinator in Biochemistry 221 (Nucleotides and Nucleic Acids), Dept. of Biochemistry and Molecular Biology, UPCM, Manila

Member, Technical Review Board, U.P. Manila National Institutes of Health (NIH), Manila

Member, Technical Review Board, U.P. Manila National Institutes of Health (NIH), Manila

Education

Ph.D. Molecular Biology & Biotechnology, University of the Philippines Los Banos, College, Laguna 2011

M.S. Biochemistry, University of the Philippines Manila, Taft Ave., Manila 2001

B.S. Biology major in Cell Biology, University of the Philippines Los Banos, College, Laguna 1994

Fields of Specialization

Elucidating the composition and role of the Filipino microbiome in health and disease

Molecular epidemiology of infectious diseases

Molecular Microbiology

Use of metagenomics in search of probiotics in Philippine fermented foods

Use of metagenomics for aquaculture health

Employment

Treasurer, Biology Seminar-Workshop) for High School Teachers Co-coordinator, RevUp for Public High, 2003- 2006-

Coordinator, RevUp (Review and Updates in Molecular Biology Seminar Workshop) for High School Teache, DBMB, 2006-

Junior Faculty Representative, Academic Personnel Committee (APC), DEpt. of Biology, College of Arts and Sciences, UPMC, 1997 - 1999-

Chair, Scholarship Committee, Dept. of Biology, College of Arts and Science, UPM, 1997 - 1999-

Chair, Seminar and Research Committee Course Coordinator: General Animal Histology

and Gross Anatomy, Dept. of Biology, College of Arts and Sciences, UPMC, 1996 - 1999-
Coordinator, Basic Research Unit,, Institute of Molecular Biology and Biotechnology,
2006-2007-

Member, Board of Directors, Philippine Society for Biochemistry and Molecular Biology
(PSBMB), 2004-2007-

Association Membership

Member, Philippine Society for the Advancement of Genetics

Member, Board of Directors, Philippine Society for Biochemistry and Molecular Biology
(PSBMB)

Member, Natural Products Society of the Philippines

Member, American Society for Microbiology

Associate Member and Regular Member, National Research Council of the Philippines
(NRCP)

Member, Philippine Society for Microbiology, Inc. (PSM)

Honors / Awards

Best Poster (Health Sciences Category) for the study "Oral Microbial Diversity Analysis of
Caries-Fr, National Academy of Science and Technology (NAST) 33rd Annual Scientific
Meeting 2011

Best Poster (Professional Category) for the study "Oral Microbial Diversity Analysis of
Caries-Free, Philippine Dental Association Annual Convention 2011

Best Poster for the study "Assessment of the Oral Bacterial Diversity from Carious Dental
and Buccal, ASM/Philippine Society for Microbiology 40th Annual Convention & 6th Asian
Biotechnology Congress 2011

2nd Place for Best Poster for the study "Assessment of Microbial Diversity in Phil.
Fermented Food, National Research Council of the Philippines (NRCP) 2011

1st Place - Best Poster for the study "Production of Avian Immunoglobulins (IgY) Against
Synthetic P, NRCP 2010

Special Award for the Poster on Interactive , Interactive Learning Exercises: Its
Implementation and, Kapisang Kimika ng Pilipinas- Southern Tagalog Chapter (KKP-ST)
2010

Manila Centennial Faculty Grant Award, University of the Philippines 2008

2nd Place (Oral) Research Paper, 12th Biological Sciences Graduate Congress (BSGC)
in Kuala Lumpur, Malaysia

International Publication Award, UP System 2006

Diamond Jubilee Faculty Incentive Award, UP Manila 2005

Dr. Eusebio Y. Garcia Recognition Award, National Research Council of the Philippines
(NRCP)

One of the 3 Outstanding Research Papers for the study Molecular Epidemiology of
Hepatitis G, UPM 16th Faculty Research Forum 2002

Researches

Completed

Profiling of the Distal Gut and Vaginal Microflora Among Pregnant

Metagenome Analysis of Soil from a Tropical Pine Forest

Assessment of Bacterial Diversity in Aquaculture Sites in Iloilo, Western Visayas Through the 16S rDNA PCR-DGGE

Development of an Immunoassay for the Detection of Hepatitis B surface antigen (HBsAg) using Immunoglobulin Y

Development of an Immunoassay for the Detection of Typhoid Fever using Immunoglobulin Y

Preliminary Assessment of Gut Microflora Diversity Shifts Among Antibiotic-Treated Mice Infected with *Clostridium difficile*

Analysis of Oral Microbial Diversity in Caries-Free and Caries-Active Healthy Filipino Children

Comparison of the distal gut bacterial flora of yakult-fed and LP-3GE-fed Obese and Non-Obese Mice (*Mus musculus* L.)

Assessment of Bacterial Diversity in Aquaculture and Non- Aquaculture Sites in Taal Lake Through 16S rDNA PCR-DGGE

Assessment of Microbial Diversity in the Distal Gut of Filipino Children of Different Nutritional Status through rDNA Analysis

Papers Presented

Dalmacio, L.M. (2011). Oral Microbial Diversity Analysis of Caries-Free and Caries-Active Healthy Filipino Adults Through the 16S rRNA Gene, 33rd Annual Scientific Meeting of National Academy of Science and Technology (NAST).

Dalmacio, L.M. (2011). Assessment of the Oral Bacterial Diversity from Carious Dentin and Buccal Mucosa of Caries-Active Filipino Adults, Philippine Society for Microbiology 40th Annual Convention & 6th Asian Biotechnology Congress American Society for Microbiology (ASM).

Estacio, R.C., Pajarillo, E.A., Catabijan, C.G., Dalmacio, L.M., et al. (2010). Interactive Learning Exercises: Its Implementation and Evaluation in Correlative Human Cell Biology (OS 201) Course", 39th Kapisanang Kimika ng Pilipinas-Southern Tagalog (KKP-ST) Chapter Annual Convention.

Dalmacio, L.M. (2010). Production of Avian Immunoglobulins (IgY) Against Synthetic Peptide Analogs of Hepatitis B Surface Antigen (HBsAg) and *Salmonella typhi* (ST-Ag) using IgY, 77th NRCP Assembly.

Publications

2011 Dalmacio, L.M.M., Angeles, A.K.J., Larcia, L.L.H., Balolong, M.P., Estacio, R.C. Assessment of bacterial diversity in selected Philippine fermented food products through polymerase chain reaction-denaturing gradient gel electrophoresis (PCR-DGGE). *Beneficial Microbes*, 2011, 2(4):273-281.

2011 Larcia, L.L.H., Estacio, R.C., Dalmacio, L.M.M. Bacterial profile of Philippine fermented mustard (*burong mustasa*) as revealed by 16S rRNA gene analysis. *Beneficial Microbes*, 2011, 2(4):1-9.

- 2006 Evangelista, K.V., Dalmacio, L.M.M., Wells, J., Kron, M.A., Ramirez, B.L. Prevalence of Hepatitis B Virus (HBV) Infection Among Tagalogs and Mangyans in Oriental Mindoro, Philippines. *Philippine Journal of Internal Medicine*, 2006, 44:161-166.
- 2005 Dalmacio, L.M.M., Evangelista, K.V., Kemp, K., Campos, J.R., Kron, M.A., Domingo E.O., Ramirez, B.L. Prevalence of Hepatitis B Virus Infection Among Healthy Adults and Risk Groups. *Philippine Journal of Internal Medicine*, 2005, 43(6):301-306.
- 2005 Dalmacio, L.M.M., Ramirez, B.L., Ricaforte, J.D., Domingo, E.O. Molecular Characterization of Hepatitis G Virus (HGV) Isolates from Healthy Adults and Risk Groups in the Philippines. *Acta Medica Philippina*, 2005, 39(1):13-21.
- 2004 Dalmacio, L.M.M., Ramirez, B.L., Hernandez, L., Kron, M.A. Epidemiology and Geographic Distribution of Lymphatic Filariasis in the Philippines. *Asian Parasitology: Filiarasis in Asia and Western Pacific Island*, 2004, Chapter 6..
- 2002 Ramirez, B.L., Dalmacio, L.M., Ricaforte, J.D., Domingp, E.O. Prevalence of Hepatitis G Virus (HGV) Infection Among Risk Groups in the Philippines. *Acta Medica Philippina*, 2002, 38(2):24-36.
- Dalmacio, L.M.M., Callanta, M.L.J., Landicho, E.J., Reyes, C.P.A., Parungao-Balolong, M.M. Assessment of Microbial Diversity in Three Oral Sites of Caries-active Filipino Adults through PCR-Denaturing Gradient Gel Electrophoresis. *Acta Medica Philippina*, .
- Guevarra, L.A. Jr., Destura, R.V., Yu, B., Dalmacio, L.M.M., Ramirez, B.L., M.B. Leano, M.B., Estacio, R.C. Production of Immunoglobulin Y (IgY) against Synthetic Peptide Analogs of the Immunogenic Epitopes of the Hepatitis B Surface Antigen. *Acta Medica Philippina*, .
- Dalmacio, L.M.M., Findji, O.B., Ramirez, B.L., Kron, M.A. Effect of Co-occurring Phages on Selected Laboratory and Environmental Strains of Bioluminescent Bacteria. *Asia life Sciences Journal*, .
- Reyes, C.P.A., Dalmacio, L.M.M. Bacterial Diversity in the Saliva and Plaque of Caries-free and Caries-active Filipino Adults. *Philippine Journal of Science*, .
- Goh, R.A.R., Daga, L.K.D., Reyes, C.P.A., Balolong, M.P., Dalmacio, L.M.M. Bacterial Profile of Carious Lesions and Buccal Mucosa of CariesActive Filipino Adults. *Acta Medica Philippina*, .

Name Fredegusto Guido P. David
Place of Birth Quezon City
Date of Birth April 29, 1971
Gender Male
Civil Status Single
Home Address 33 Juan Luna, UPD, Diliman, Quezon City

Organizational Affiliations

Associate Professor, Institute of Mathematics, UP Diliman, Quezon City
Coordinator, Computational Science Research Center, UP Diliman, Quezon City
PhD dissertation adviser : Bladimer Ocampo, UPD,
MS Thesis Adviser: Rachele Rivero, Carl Jamosin), UPD, Quezon City
Reviewer for several journals: Mathematical Reviews, Biomechanics, Modeling in Mechanobiology, etc., UPD, Quezon City

Education

PhD Biomedical Engineering, Texas A & M University, College Station TX 2005
MS Applied Mathematics, Texas A & M University, College Station TX 2000
MS Applied Math (Actuarial Science), UP Diliman, Quezon City 1993
BS Mathematics, UP Diliman, Quezon City 1991

Fields of Specialization

Applied Mathematics (mathematical modeling),
Biomechanics (Vision, . Cardiovascular, Bone), Math Finance, Game Theory

Employment

Actuarial Assistant, United Coconut Life Planters Bank, 10/1995-6/1996-
Instructor, Mathematics Department, University of the Philippines, 1992 Je-1995 My-
Trainor, Philippine team to the International Math Olympiad,, 2007- present-
Judge, BPI Science Awards (UP Diliman), 2008 and 2009-
Judge, Philippine Math Olympiad, 2008-
Teaching Assistant, Mathematics Dept., Case Western Reserve University, -
Teaching Assistant, Mathematics Dept., Texas A & M, 1997 S-2000 D-
Research Assistant, Biomedical Engineering, Texas, A&M, 2001 S- 2005 Ag-
Postdoctoral Fellow, Texas A & M University, 2005 S-2006 Ap-

Association Membership

Regular Member, National Research Council of th Philippines (NRCP)
Member, Mathematical Society of the Philippines

Member, Society of Industrial and Applied Mathematics

Honors / Awards

UP Centennial Faculty Grant, UP Diliman 2008-2009
Outstanding Teaching Assistant, Texas A&M University 1999
Graduate Teaching Assistantship, Texas A&M University 1997-2000
Graduate Teaching Assistantship, Case Western Reserve 1996-1997
Outstanding Young Scientist, NAST-DOST 2013

Trainings

8th Taiwan-Philippine Symposium on Analysis, Taichung, Taiwan 2009 O 23-25
5th Jagna International Workshop, Jagna, Bohol 2008 Ja 3-5
4th Symposium on the Mathematical Aspects of Computer Science, UP Cebu 2008 Ag 4-7
7th Sino-Philippine Symposium in Mathematics (Invited Speaker), Antipolo, Rizal 2007 O 25-27
Faculty Upgrading for Chemistry in Higher Education (FUCHE), UP Diliman 2007 O 22-26
2005 ALCON Meeting (Speaker, Biomechanics of the Lens Capsule), Texas 2004
41st Annual SES Meeting (Speaker, On the stability of saccular aneurysm), Nebraska 2004
2nd MIT Conference on Solid and Fluid Mechanics (Speaker, Further Evidence for the stability of intr, Massachusetts Institute of Technology 2003

Publications

- 2009 David, G. A finite element approach to biomechanics of visual accommodation based on non linear elasticity. Proceedings of the 8th Taiwan-Philippines Symposium on Analysis, Taichung, Taiwan, 2009.
- 2007 David, G., Humphrey, J.D. Finite element model of stresses in the anterior lens capsule of the eye. Computer Methods in Biomechanics and Biomedical Engineering, 2007, 10(3):237 - 243.
- 2007 Pedrigi, R.M., David, G., Dziezyc, J., Humphrey J.D., Regional mechanical properties and stress analysis of the human anterior lens capsule. Journal of Biomechanical Engineering, 2007, 129:97-104.
- 2007 David, G., Pedrigi, R.M., Heistand, M.R., Humphrey, J.D., Regional multiaxial mechanical properties of the porcine anterior lens capsule. Journal of Biomechanical Engineering, 2007, 129:97-104.
- 2007 Pedrigi, R.M., Staff, E., Glenn, S., David, G., Humphrey, J.D. Altered multiaxial mechanical properties of the porcine anterior lens capsule cultured in high glucose. Journal of Biomechanical Engineering, 2007, 129:121-125.
- 2005 Mori, D., David, G., Humphrey, J.D., Moore, J.E. Jr. Stress redistribution in a circular membrane with a central fixation.. Journal of Biomechanical Engineering, 2005, 127:549-553.
- 2004 David, G., Humphrey, J.D. Redistribution of stress due to a circular hole in a nonlinear

anisotropic membrane. *Journal of Biomechanics*, 2004, 37:1197-1203.

2003 David, G., Humphrey, J.D., Further evidence for the dynamic stability of intracranial saccular aneurysms. *Journal of Biomechanics*, 2003, 36:1143-1150.

Name Belinda V. De Castro

Gender Female

Civil Status Single

Organizational Affiliations

Faculty Researcher (Asst. Professor 3), Center for Educational Research and Development, Rm 201 Tomas Aquinas Research Complex, UST, Manila

Editorial Board Member, Asian Journal of Tourism and Hospitality Research,

Managing Editor, Asian Journal for Educational Research and Synergy,

Statistics Consultant, Mathematics Review and Consultancy Center,

Education

M.S. in Mathematics Education, University of Santo Tomas, Manila 2000

B.S. Math major in Actuarial Science, University of Sto Tomas, Manila

Ph.D. Educational Management (on-going), University of Sto Tomas, Manila

Fields of Specialization

Mathematics Education

Government and International Policies

Philippine Tourism

Critical Issues in Basic Education

Nursing Education

Educational Management

Tourism and Nursing Education Research

Employment

Editorial Board Member, Asian Journal of Tourism and Hospitality Research-, -

Managing Editor, Asian Journal for Educational Research and Synergy-, -

Association Membership

Editorial Board, Journal of Tourism and Hospitality Research (AJTHR)

Regular Member, National Research Council of the Philippines

Trainings

UST Graduate Research Colloquium, Graduate School, UST, Manila 2009 S 19

PSERE 17th Annual Convention, Centro Escolar University, Manila 2009 My 21-23

International Conference on Evidence Based Practice in Nursing: Paradigms and Dialogue , The Hong Kong Polytechnic University (PolyU) 2007 Ap 19-21

Researches

Completed

Evaluation of the Effectiveness of the Developed Cognitive Models for Fraction

Multiplication and Division. Asia-Pacific Education Review. ISSN 1598-1037.

The two sides of a coin: Filipino tourism students' motivation and multisectoral views and misconceptions of the tourism field

Understanding the Philippines as a tourist destination: a triadic lens of international students' images, attitudes and dilemmas

Shopping preferences, frequency and spending power of international outbound tourists in the Philippines

A look into the Australian tourists' travel motivation and pre-and post images of the Philippines as a destination

Understanding inbound and outbound tourists trend in the Philippines (1986-2005): The Use of ARMA in Tourism Research

From maze to craze: Profiling the employability of tourism graduates in a Philippine comprehensive university

Shadow Education : What it is and what it is not

Push and pull factors affecting Filipino students' shadow education (SE) participation

Filipino college students' travel behavior, motivation and conception of destinations during school breaks

Filipino pre-service teachers' misconceptions on family involvement: Implications for teacher education

Filipino school children's recognition and appreciation of traditional and non-traditional games: are there lessons to be learned?

Filipino adolescents' familiarity level, attitudinal disposition and preferences for heritage sites visits

First-time and repeat visitors' motivation, satisfaction and problems encountered in three parks and wildlife in the Philippines

Understanding motivation of repeat local visitors in a year-round thematic festival in the Philippines: Implications to festival loyalty

Home away from home: international inbound tourists' motivations and difficulties during Christmas Holidays in the Philippines

Statistics Anxiety and Misconceptions: University Students Investigated

Exploring Children's Conceptual and Procedural Understanding of Zero and Infinity Basic Education Level Students Investigated

Graduate employability as a dimension of quality assurance in education: the case of a multidisciplinary university

Filipino nurses' migration and deployment (1988-2006): A time series analysis

Ongoing

Proliferation of shadow education institutions (SEI's) in the Philippines

From scratch to notch: Understanding private tutoring metamorphosis in the Philippines from the perspectives of cram and formal school administrators

Coming Out of the Void: From Nullity to Certainty in Research Writing

Shadow Education in the Philippines

Determining attributes affecting shadow education (SE)behavioral intentions using structural equation model(SEM)

Papers Presented

de Castro, B.V. (2009 S 19). Segmenting Shadow Education (SE) Participation of Filipino Basic Education Students, UST Graduate Research Colloquium, Graduate School, UST, Manila.

De Castro, B.V. (2009 My 21-23). Segmenting Shadow Education (SE) Participation of Filipino Basic Education Students, PSERE 17th Annual Convention, Centro Escolar University, Manila.

de Castro, B.V. (2007 N13-23). Statistics Anxiety and Misconceptions: University Students Investigated, University Research Month, University of Santo Tomas, Manila.

de Guzman, A.B., de Castro, B.V., Pagdonsolan, N.A.L., Pagulayan, M.B., Parayno, J.G.D., Pazzibigan, K.R., Perlas, M.C..F.B., Pineda, A.J.T. (2007 N 13-23). Filipino nurses' migration and deployment: A time series analysis, University Research Month. University of Santo Tomas, Manila.

de Guzman, A.B., de Castro, B.V., Lim, A.A., Macalalad, B.C., Moreno, M.M.S., Santos, R.J.F. (2007 N 13-23). Taxonomy of Filipino teacher's bumpy moments: A convergence of student, beginning, and experienced teachers' views, University Research Month, University of Santo Tomas, Manila.

de Guzman, A.B., de Castro, B.V., Pagdonsolan, N.A.L., Pagulayan, M.B., Parayno, J.G.D., Pazzibigan, K.R., Perlas, M.C..F.B., Pineda, A.J.T. (2007 Ap 19-21). Filipino nurses' migration and deployment: A time series analysis, International Conference on Evidence Based Practice in Nursing: Paradigms and Dialogue, The Hong Kong Polytechnic University (PolyU).

de Castro, B.V. (2007). Statistics anxiety and misconception: University students investigated, International Conference in Mathematics Education (MATHED), University of San Carlos, Cebu City.

Publications

- 2009 de Castro, B.V., et al. Home away from home:International outbound tourists' motivations and difficulties during christmas holidays in the Philippines. *Asian Journal of Tourism and Hospitality Research*, 2009 S, 3(2):57-77.
- 2009 de Castro B.V. Statistics anxiety and misconceptions: University students investigated. *Asian Journal for Educational Research and Synergy*, 2009 D, 1(2).
- 2008 de Castro, B.V. Occurrence of PSP-producing dinoflagellate *Alexandrium tamiyavanichii* in Bingo-Nada, the central coastal water of the Seto Inland Sea Hiroshima Prefecture, Japan. *Marine Pollution Bulletin*, 2008, 56:758-763.
- 2007 de Guzman, A.B., de Castro, B.V., Aquino, K.A.B., Buenaventura, M.A.R., Duque, A.C.C. Filipino parent's school choice and loyalty:a factor analysis. *Educational Research for Policy and Practice*, 2007.
- 2007 Paderanga, S.M.B., Pagsuyuibn, MS.S., de Castro B.V., Guzman, A.B. Nurses' assessment of the authoritative and facilitive roles of clinical supervisors in the Philippines. *Asian Journal of Nursing*, 2007, 10(2).

- 2007 de Castro, B.V. Evaluation of the Effectiveness of the Developed Cognitive Models for Fraction Multiplication and Division. *Asia-Pacific Education Review*, ISSN 1598-1037, 2007.
- 2007 de Guzman, A.B., de Castro, B.V., Pagdonsolan, NA L., Pagulayan Filipino nurses' migration and deployment: a time series analysis. *Nursing Outlook (Impact Factor .725)*, 2007.
- 2007 de Castro, B.V. & de Guzman, A.B. Understanding motivation of repeat local visitors in a year-round thematic festival in the Philippines. *Asia Pacific Journal of Tourism Research*,, 2007.
- 2007 Paderanga, SM V., Pagsuyuin, MS S., de Castro, B.V. & de Guzman, A.B. Staff nurses assessment of the authoritative and facilitative roles of clinical supervisors in selected hospitals in the Philippines. *Asian Journal of Nursing Studies*. (Scientific Communications International Limited, Hongkong, 2007.
- 2006 de Castro, B.V., de Guzman, B., Segmenting Motivation. *Annals of Tourism*, 2006, 3(3):863-867.

Name Benito O. De Lumen

Gender Male

Civil Status Single

Organizational Affiliations

Professor, Division of Nutritional Sciences and Toxicology University of California, Berkeley California, USA

Education

Ph.D. in Agricultural Chemistry (Biochemistry), University of California, Davis, USA 1971

MS in Food Science, University of Missouri at Columbia, 1967

BS in Agricultural Chemistry, University of the Philippines Los Baños, College, Laguna 1962

Fields of Specialization

Chemistry

Biochemistry(Agricultural Chemistry)

Diets and Cancer

Employment

Associate Professor, Dept. of Nutritional Sciences, University of California at Berkeley, USA, 1982-2000-

Assistant Professor, Dept. of Nutritional Sciences, University of California at Berkeley, USA, 1978-1982-

Senior Research Chemist, Basic Research Department, Campbell Institute for Food Research, Camden, New Jersey1, 1972-1978-

Postgraduate Biochemist, Dept. of Food Science and Technology, University of California at Davis, USA, 1971-1972-

Research Instructor, Dept. of Agricultural Chemistry, University of the Philippines at Los Baños, 1962-1965-

Honors / Awards

Balik Scientist Award, DOST 2009

The Teodora Award, 2007

Trainings

Pilipino American Academy of Sciences and Engineering Annual Meeting, Georgetown University, Washington DC 2008 My 22-23

Soy and Health Symposium, University of Ghent, Ghent, Belgium 2008 Je 2-3

FASEB Annual Meeting (Y, Su. B, dL, R.Simmen), San Diego, CA 2008 Ap 5-9

PopCon Protein and Peptide Conference, Shenzhen, China 2008 Ap 22-24

121st AOAC International Annual Meeting Session "Accurate Analysis of Amino Acids and Bioactive Pept, Anaheim , C.A. 2007 S 16-17

Comparative Biochemistry Graduate seminar, 120 Morgan Hall Nutritional Science and Toxicology, UC Berkeley 2007 O 9

27th Annual Meeting of Philippine American Academy of Science and Engineering, Century Park Hotel, Manila, Philippines 2007 F 16

Researches

Completed

Listed 39 Patents

Papers Presented

de Lumen, B.O. (2008 My 22-23). The Cancer Preventive Peptide Lunasin Inhibits Retinoblastoma Phosphorylation to Disrupt Carcinogenesis, Pilipino American Academy of Sciences and Engineering Annual Meeting, Georgetown University Washington DC.

de Lumen, B.O. (2008 Je 2-3). Concentration and Bioavailability of Lunasin and BBI (Bowman-Birk Inhibitor) in Commercial Soy Products, Soy and Health Symposium, University of Ghent, Ghent, Belgium.

de Lumen, B.O. (2008 Je 2-3). The Cancer Preventive Peptide Lunasin Inhibits Retinoblastoma Phosphorylation to Disrupt Carcinogenesis, Soy and Health Symposium, University of Ghent, Ghent, Belgium.

de Lumen, B.O. (2008 Ap22-24). Lunasin: A Novel Cancer Preventive Seed Peptide, PopCon protein and Peptide Conference, Shenzhen, China.

de Lumen, B.O. (2008 Ap 5-9). Soy Components Genistein and Lunasin Regulates E-Cadherin and Wnt signaling in mammary epithelial cells, FASEB Annual Meeting (Y, Su. B, dL, R.Simmen), San Diego, CA.

de Lumen, B.O. (2008 Ap 25). Lunasin: A Novel Cancer Preventive Seed Peptide, CK Life Sciences International, Inc., Hongkong.

de Lumen, B.O. (2007 S20). Lunasin: A Novel Cancer Preventive Seed Peptide, Arkansas Children Nutrition Center, University of Arkansas, Little Rock, AK.

de Lumen, B.O. (2007 S 7). Natural Complementary Roles in cancer prevention, (Innovative Minds in Prostate Cancer Today)IMPACT, Atlanta, GA..

de Lumen, B.O. (2007 S 16-17). Lunasin: A Novel Cancer Preventive Seed Peptide, 121st AOAC International Annual Meeting Session "Accurate Analysis of Amino Acids and Bioactive Peptides in Foods and Dietary Supplements", Anaheim, C.A..

de Lumen, B.O. (2007 O3). Lunasin: A Novel Cancer Preventive Seed Peptide, NS \$ T 293 Presentation to New graduate students, 120 Morgan Hall Nutritional Science and Toxicology, UC Berkeley.

de Lumen, B.O. (2007 O 9). Lunasin: A Novel Cancer Preventive Seed Peptide, Comparative Biochemistry Graduate Seminar, 120 Morgan Hall Nutritional Science and Toxicology, UC Berkeley.

de Lumen, B.O. (2007 Mr 1). Lunasin, a Cancer Preventive Seed Peptide, College of Natural Resources Research Showcase, 250 Mulford Hall.

de Lumen, B.O. (2007 Je 8). Lunasin, a Cancer Preventive Seed Peptide that Modifies Chromatin, Dept. of Food Science and Human Nutrition, Urbana, IL.

de Lumen, B.O. (2007 Je 29). Lunasin, a Cancer Preventive Seed Peptide that Modifies Chromatin, Gyeeyung Bok Bioindustry Institute, Andong University, Andong, Korea.

de Lumen, B.O. (2007 F 16). Iwasan ang Kanser: Lunasin, a Cancer Preventive Seed Peptide, 27th Annual Meeting of Philippine American Academy of Science and Engineering, Century Park Hotel, Manila, Philippines.

de Lumen, B.O. (2007 D 5). Lunasin: A Novel Cancer Preventive Seed Peptide, Marine Science Institute, University of the Philippines, Diliman, Quezon City.

de Lumen, B.O. (2007 Ap 14-18). Cancer Preventive Peptide Lunasin from Wheat Inhibits Histone Acetylation, 2007 Annual meeting of American Association for Cancer Research.

Publications

- 2010 Jeong, J.B., de Lumen, B.O., Jeong, H.J. Lunasin peptide purified from *Solanum nigrum* L. protects DNA from oxidative damage by suppressing the generation of hydroxyl radical via blocking fenton reaction. *Cancer Letters*, 2010, 293:58-64.
- 2003 de Lumen, B.O., Galvez, A.F. Lunasin Peptides. US Patent No. 6,544,956, 2003 Ap 8.
- 2003 de Lumen, B.O., Galvez, A.F. Soybean Protein Nutraceuticals. Australian Patent No. 762977, 2003 O 23.
- 2003 Lam, Y., Galvez, A.F., de Lumen, B.O. Lunasin suppresses ETA-mediated transformation of mammalian cells but has no effect on growth of normal and established cancer cell lines. *Nutrition and Cancer*, 2003, 47:88-94.
- 2002 de Lumen, B.O., Galvez, A.F. Soybean Protein Nutraceuticals. US Patent No. 6,391848, 2002 My 21.
- 2000 de Lumen, B.O., Galvez, A.F. Lunasin peptides. US Patent No. 6,107,287, 2000 Ag 22.
- 1996 Revilleza, M.J., Galvez, A.F., Krenz, D.C., de Lumen, B.O. An 8 kDa Methionine-Rich Protein from Soybean (*Glycine max*) Cotyledon: Identification, Purification, and N-Terminal Sequence. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1996, 44(9):2930-2935.
- 1993 de Lumen, B.O., Thompson, S., Odegard, W.J. Sulfur amino acid-rich proteins in acha (*Digitaria exilis*), a promising underutilized African cereal *Journal*: DOI: 10.1021/jf00031a005. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1993, 41(7):1045-1047.
- 1991 De Lumen, B.O., George, A.A. A novel methionine-rich protein in soybean seed: identification, amino acid composition, and N-terminal sequence. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1991, 39(1):224-227.
- 1990 De Lumen, B.O. Molecular approaches to improving the nutritional and functional properties of plant seeds as food sources: developments and comments. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1990, 38(9):1779-1788.
- 1990 Castillo, E.M., De Lumen, B.O., Reyes, P.S. Raffinose synthase and galactinol synthase in developing seeds and leaves of legumes. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1990, 38(2):351-355.
- 1987 De Lumen, B.O., Kho, C.J. Identification of methionine-containing proteins and quantitation of their methionine contents. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1987, 35(5):688-691.
- 1986 De Lumen, B.O., Becker, R., Reyes, P.S. Legumes and a cereal with high methionine/cysteine contents. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1986, 34(2):361-364.

- 1985 Rosanoff, A., Briggs, G.M., De Lumen, B.O. Corrosion of iron by ascorbic acid and catalysis of ascorbate oxidation by products of the iron corrosion. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1985, 33(5):891-896.
- 1984 Nget Hong Tan, Kai Choo Wong, De Lumen, B.O. Relationship of tannin levels and trypsin inhibitor activity with the in vitro protein digestibilities of raw and heat-treated winged bean (*Psophocarpus tetragonolobus*). *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1984, 32(4):819-822.
- 1984 Del Rosario, R., De Lumen, B.O., Habu, T., Flath, R.A., Richard Mon, T., Teranishi, R. Comparison of headspace of volatiles from winged beans and soybeans. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1984, 32(5):1011-101.
- 1983 Rosanoff, A., De Lumen, B.O., Briggs, G.M. Lack of effect of pH and titratable hydrogen ion concentration on the corrosion rate of low-carbon steel in apples. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1983, 31(3):668-670.
- 1982 Chan, J., De Lumen, B.O. Properties of trypsin inhibitor from winged bean (*Psophocarpus tetragonolobus*) seed isolated by affinity chromatography. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1982, 30(1):42-46.
- 1982 Chan, J., De Lumen, B.O. Biological effects of isolated trypsin inhibitor from winged bean (*Psophocarpus tetragonolobus*) on rats. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1982, 30(1):46-50.
- 1982 De Lumen, B.O., Fiad, S. Tocopherols of winged bean (*Psophocarpus tetragonolobus*) oil. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1982, 30(1):50-53.
- 1981 Belo, P.S., De Lumen, B.O. Pectic substance content of detergent-extracted dietary fibers. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1981, 29(2):370-373.
- 1981 De Lumen, B.O., Belo, P.S. Inhibitors of trypsin and chymotrypsin in winged bean (*Psophocarpus tetragonolobus*) tubers. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1981, 29(4):884-886.
- 1980 De Lumen, B.O., Salamat, L.A. Trypsin inhibitor activity in winged bean (*Psophocarpus tetragonolobus*) and the possible role of tannin. *Journal of Agricultural and Food Chemistry - J AGR FOOD CHEM*, 1980, 28(3):533-536.
- . Listed 39 Patents, .

Name Alonzo A. Gabriel
Place of Birth Manila, Philippines
Date of Birth May 22, 1980
Gender Male
Civil Status Single

Organizational Affiliations

Associate Professor of Food Science (Assoc. Prof.2) and UP Scientist 1, Dept. of Food Science and Nutrition, College of Home Economics, Teodora Alonzo Hall, Ma. Regidor St., UP Diliman, Quezon City

Education

MS in Molecular Biology, University of the Philippines, Diliman, Quezon City

Fields of Specialization

Food Defense and Security
Microbial Stress Response
Food Processing and Preservation
Food Quality and Safety
Food Microbiology
Hurdle/Barrier Technology

Employment

Scientist 1, University of the Philippines, 2011-2013-

Associate Professor of Food Science (Assoc. professor 2), University of the Philippines, Sytem, 2010 O= present-

Graduate Teaching Assistant, Laboratory of Food Microbiology and Hygiene, Hiroshima University, Japan, 2007 O-2010 JI-

Assistant Professor of Food Science (Asst. Professor 4), Dept. of Food Science and Nutrition College of Home Economics UP Diliman, 2009 Je- 2010 S-

Asst. Professor 3, Dept. of Food Science and Nutrition College of Home Economics UP Diliman, 2008 Ap-2009 My-

Dept. of Food Science and Nutrition College of Home Economics UP Diliman, Asst. Professor 1, 2007 D-2008 Mr-

Instructor 4, Dept. of Food Science and Nutrition College of Home Economics UP Diliman, 2005 JI-2007 N-

Instructor 1, Dept. of Food Science and Nutrition College of Home Economics UP Diliman, 2003 Je-2005 Je-

Researcher, Foundation for the Advancement of Food Science and technology, Inc. Diliman, Quezon City, 2002 Ag-2003 My-

Association Membership

Member, Japan Alumni Association of the Saint Gallen Symposium

Member, European Society of Clinical Microbiology and Infectious Diseases (ESCMID)

Member, ESCMID Food and Water-borne Infections Study Group

Member, Philippine Association of Food Technologist, Inc.

Member, International Association for Food Protection (IAFP)

Member, American Society for Microbiology (ASM)

Member, Brunie Darussalam Association of Food Science and Technology

Member, Institute of Food Technologists (IFT)

Member, Japanese Society for Food Microbiology (JSFM)

Honors / Awards

Regional SEARCA Professorial Chair (AY 2011-2012), SEARCA 2012 Mr

2012 University of the Philippines Centennial Professorial Chair Award, UP System 2012
Ja

PhD Incentive Award (Research Grant), Office of the Vice Chancellor for Research and
Development, UPD 2011 D

University of the Philippines Scientific Productivity Award (Scientist 1, @011-2013), UPS
2011 O

ASEAN Best Graduate Research Paper, Organizers of the 125h ASEAN Food
Conference, Bangkok, Thailand 2011 Je

University of the Philippines Centennial Professorial Chair Award, UP System 2011 F

Chancellor's Award for Academic Distinction: International Publication Award (6 times),
UPS 2011 F

Biograpee, Marquis 2011 Who's Who in the World, Marquis Who's Who 2011

Finalist, Leader of Tomorrow/Saint Gallen Wings of Excellence Award, Organizers of the
40th Saint Galen Symposium, University of Saint Gallen, Saint Gallen, Sweetzerland
2010

Biograpee, in the World Marquis 2009 Who's Who, Marquis 2009 Who's Who 2009

Chancellor's Award for Academic Distinction: International Publication Award (5 Awards),
UPS 2009

Chancellor's Award for Academic Distinction: International Publication Award (2 Awards),
UPS 2008

Chancellor's Award for Academic Distinction: International Publication Award (2 times),
UPS 2007 F

Chancellor's Award for Academic Distinction: International Publication Award, UPS 2006

Chancellor's Award for Academic Distinction: International Publication Award (6 times),
UPS 2005

Chancellor's Award for Academic Distinction: International Publication Award, UPS 2004

Best Undergraduate Paper (National Competition), Philippine Association of Food
Technologists, Inc. 2003 N

Travel and Participation Grant for Young Scientists from Developing Countries, ICFMH

2012

Travel and Participation Grant, The Japan -ASEAN Integration Fund (JAIF) 2011

Travel and Participation Grant, University of Minnesota Public Health Summer Institute 2011

Travel and Participation Grant, JAIF 2009

Scholarship Grant, Monbukagakusho 2010

RA 7687 Science Scholarship, SEI-DOST 2001

Trainings

Food Micro 2012 Congress, Istanbul, Turkey 2012 Ag 3-7

Collaborative Exchange Program, University of Minnesota 2011 My 21 - Je 3

12th ASEAN Food Conference, Bangkok, Thailand 2011 Je 16-18

1st Medicinal Chemistry Seminar, University of the Philippines, Diliman, Quezon City 2011 Ja 12-13

Regional Postgraduate Course in Food Safety, Jakarta, Indonesia 2011 F 7-21

Seminar on Health, Nutrition and Food Biotechnology, UP Manila Campus, Manila 2010 O 22

40th Saint Gallen Symposium: Entrepreneurs-Agents of Change, University of Saint Gallen, Switzerland 2010 My 3-9

11th ASEAN Food Conference, Bandar Seri, Begawan, Brunei Darussalam 2009 O 20-23

Process Optimization Through Design of Experiments, Philippine Trade Training Center, Roxas Blvd., Pasay City 2006 N 18- 19

3rd Review and Update on Genomics: Genes and DNA, Angeles University Foundation, Angeles City/Pampanga 2005 O 22

Researches

Completed

Application of response surface methodology in the formulation of nutrient broth systems with predetermined pH and water activities

Modeling the thermal death of *Salmonella Typhimurium* in citrus systems

Microbiology of retail mung bean sprouts vended in public markets of National Capital Region, Philippines

Heat Sensitizing Effects of Vanillin and Organic Acids on Pathogens in Coconut Water

Antimicrobial Efficacies of Physicochemical Parameter Combinations towards Microorganisms in Fruit Juice

Predictive Thermal Inactivation Model of *Salmonella Typhimurium* in Citrus System

Influences of pH, A_w and Temperature on the Thermal Death Times of *Escherichia coli* and *Salmonella enterica* in simulated Fruit System

Microbial Risk Assessment of Potable Water Supplies in Philippine Inter-Island Passenger Vessels

Decimal Reduction Times of *Acanthamoeba* sp. Cysts in *Perna Viridis* Broth and

Phosphate-Buffered Saline

Papers Presented

Gabriel, A.A., Arellano, R.U. (2012 S 3-7). Thermal Inactivation of Escherichia Coli O157:H7, Salmonella enterica and Listeria monocytogenes in Young Coconut Liquid Endosperm, Food Micro 2012, 23rd International Committee on Food Microbiology and Hygiene (ICFMH) Symposium, Istanbul, Turkey.

Takei, S., Gabriel, A.A., Wei, L., Nakano, H. (2010 N 11-12). Dynashock Ultrasound Inactivation of Microorganisms in Fruit Juice, 31st Japanese Society for Food Microbiology Conference, Shiga, Japan.

Gabriel, A.A., Nakano, H. (2010 Ap 28-30). Influences of Process and Products Parameters on the Thermal Death of Escherichia Coli O157:H7 in Simulated Fruit Juices, ICBBB2010: International Conference on Bioscience, Biochemistry and Biochemistry, Rome, Italy.

Gabriel, A.A. (201 Je 16-18). Influences of Microbial, Process and product Parameters on the Thermal Death of Escherichia Coli in Fruit Juice, 12th ASEAN Food Conference, Bangkok, Thailand.

Cui, H., Gabriel, A.A., Okimori, Y., Hato, X., Nakano, H. (2009 O19-21). Effects of Plant Extracts on the Thermal Resistance of Clostridium spp., 30th Japanese Society for Food Microbiology Conference, Edogawa, Tokyo, Japan.

Gabriel, A.A., Nakano, H. (2009 O 21-23). Responses of Selected Pathogens to Food Factor Stress Combinations, 11th ASEAN Food Conference, Bundar Seri Begawan, Brunie Darusalam.

Publications

- 2013 Gabriel, A.A. Influences of simultaneous physicochemical stresses on injury and subsequent heat and acid resistance of Salmonella enteritidis in apple juice. Food Control, 2013, 31:28-34.
- 2012 Gabriel, A.A. Inactivation of Escherichia coli O157:H7 and spoilage yeasts in germicidal UV-C-irradiated and heat-treated clear apple juice. Food Control, 2012, 23:425-432.
- 2012 Gabriel, A.A. Microbial inactivation in cloudy apple juice by multi-frequency Dynashock power ultrasound. Ultrasonics Sonochemistry, 2012, 19:346-351.
- 2012 Gabriel, A.A. Influences of heating temperature, pH, and soluble solids on the decimal reduction times of acid-adapted and non-adapted Escherichia coli O157:H7 (HCIPH 96055) in a defined liquid heating medium. International Journal of Food Microbiology, 2012, 160:50-57.
- 2011 Gabriel, A.A., Nakano, H. Effects of Culture Conditions on the Subsequent Heat Inactivation of E. coli O157: H7 in Apple Juice Publisher: Elsevier Publication Date: Publication Name: Food Control, 2011 Ja 1, 22:1456-1460.
- 2011 Gabriel, A.A., Nakano, H. Effects of Culture Conditions on the Subsequent Heat Inactivation of E. coli O157: H7 in Apple Juice. Food Control, 2011 Ja 1, 22:1456-1460.
- 2010 Gabriel, A.A., Nakano, H. Responses of E. Coli O157: H7, L. Monocytogenes 1/2 C and Salmonella Enteritidis to PH, and Temperature Stress Combinations. Food Control, 2010 Ja 1, 21:644-650.
- 2010 Gabriel, A.A., Nakano, H. Influences of Simultaneous Physicochemical Stress Exposures on Injury and Subsequent Responses of E. Coli O157: H7 to Resuscitative and

- Inactivative Challenges. *International Journal of Food Microbiology*, 2010 Ja 1, 139:182-192.
- 2010 Sevilla, K.P., Gabriel, A.A. D values of *Escherichia coli* in tilapia meat. *Journal of Muscle Foods*, 2010 Ja 1, 21:167-176.
- 2010 Gabriel, A.A. D₇₂° C values of *Salmonella Typhimurium* in citrus juices: Predictive efficacy of a model. *Journal of Food Process*, 2010 Ja 1, 33:506-518.
- 2009 Gabriel, A.A. Heat Activation of *Neosartorya* and *Talaromyces* Ascospores and Enhancement by Organic Acids. *Biocontrol Science*, 2009 Ja 1.
- 2009 Gabriel, A.A., Nakano, H. Application of Response Surface Methodology In the Formulation of Nutrient Broth Systems With Predetermined PH and Water Activities. *African Journal of Microbiology*, 2009 Ja 1, 3:833-839.
- 2009 Gabriel, A.A. Inactivation of *Salmonella*, *E. coli* and *Listeria monocytogenes* in phosphate-buffered saline and apple juice by ultraviolet and heat treatments. *Food Control*, 2009, 20:443-446.
- 2008 Gabriel, A.A., Plaza, I.I.B. Thermal Death Time of *Salmonella Typhimurium* In Oyster Meat: Establishment and Application In a Heat-Treated Ceviche Recipe. *Journal of Foodservice*, 2008 Ja 1, 19:277-285.
- 2008 Gabriel, A.A. Modeling the thermal death of *Salmonella Typhimurium* in citrus systems. *Journal of Food Process Engineering*, 2008, 31:640-657.
- 2007 Gabriel, A.A., Berja, M., Estrada, E., Lopez, M.A., Nerry, J.B., Villaflor, E.B. Microbiology of retail mung bean sprouts vended in public markets of National Capital Region, Philippines. *Food Control*, 2007 Ja 1, 18:1307-1313.
- 2007 Gabriel, A.A. D values of composite *Salmonella enterica* serotypes *Typhimurium* and *Enteritidis* in Philippine native orange juice. *Journal of Food Processing and Preservation*, 2007, 31:641-658.
- 2007 Gabriel, A.A. Decimal reduction times of *Salmonella Typhimurium* in *guinataang kuhol*: An indigenous Filipino dish. *LWT-Food Science and Technology*, 2007, 40:1108-1111.
- 2005 Gabriel, A.A. Microbial Quality of Chlorine Soaked Mung Bean Seeds and Sprouts. *Food Science and Technology Research*, 2005 Ja 1, 11:95-100.
- 2005 Gabriel, A.A. Consumer Acceptance of Philippine Orange Drink As An Iron-Fortified Beverage for Filipino Women. *Food Science and Technology Research*, 2005 Ja 1, 11:95-100.

Name Edgar I. Garcia
Gender Male
Civil Status Single
Home Address Blk. 10, lot 12, Northcres Village Deparo Road, Novaliches,
Caloocan City

Organizational Affiliations

Director, TAPI-DOST, DOST Complex, Gen. Santos Ave., Bicutan, Taguig City

Education

Ph.D. In Food Science, University of the Philippines, Diliman, Quezon City Academic Completed

Postgraduate Diploma in Chemical Engineering, Tokyo Institute of Technology, Tokyo, Japan 1989

Master of Statistics, University of the Philippines, Diliman, Quezon City 1986

Bachelor of Science in Chemical Engineering, National University, Manila 1978

Fields of Specialization

Statistics and Mathematics

Chemical Engineering

Food Science and Intellectual Property Rights (IPR)

Employment

Officer-In-Charge, Office of the Director; TAPI, TAPI-DOST, 2008-

Officer-In-Charge, Office of Deputy Director, TAPI, TAPI-DOST, 2007 O- Present-

Chief SRS, Project Development Division, TAPI-DOST, 2007 D-

Supervising SRS Tech.Packaging & Promotion Div, TAPI-DOST, 2004 - 2007 D-

Senior SRS, Tech Packaging & Promotion Div, TAPI-DOST, 1992 O - 2004-

SRS II, Nutritional Foods processing Research Prog, FNRI-DOST, 1987 - 1992 O-

SRS I, Nutritional Foods Processing Research Prog, FNRI-DOST, 1981 - 1987-

SRA I, Nutritional Foods processing Research Prog, FNRI-DOST, 1979 - 1981-

Part-time Lecturer, PUP, Manila, 1987 - Present-

Part-time Lecturer, TUP, Manila, 1981 - Present-

Association Membership

Chairman, Regional Technical Evaluation Committee, DOST-NCR

Focal person of TAPI, Nat'l. node & administrator for the two tech transfer website and the search engine of APCTT

TAPI Representative, Interagency Technical Working Group for Product Development

TAPI Representative, Interagency Technical Working Group for Training of SMEs

Member, Board of Judges, 2008 Outstanding Technology Commercialization Award (NAST)

Member, Sub-Committee of DOSTs Golden Jubilee Awards for Outstanding Technology Adopter,

Resource Speaker, Feasibility Study and Business Plan Course, College of Home Economics, University of the Philippines

Member, Board of Judges, Math Quiz Bee, College of Science Week Celebration, Technological University of the Philippines

Resource Speaker, Trainer's Training on Streetfood Vending, Food and Nutrition Research Institute

Member, Board of Judges, Search for Outstanding Faculty Research Technological University of the Philippines

Chairman, Board of Judges, Science Fair Research Project Competition 2000 INTEL 'Philippines Science and Math Festival

Chairman, Board of Judges, Research Exhibit Competition 98th TUP Foundation Week Celebration

Chairman, Committee for "Tagisan ng Talino Contest", 10th DOST Annual S&T Fair PTTC

Chairman, Exhibit Committee, 60th PIChE National Convention

Member, Panel of Evaluators, Thesis & Research Presentation, of BS Food Tech Polytechnic Univ of the Phils (Batch 1998 - 1999)

Chairman, Committee on Inventor's Fora, National Inventors Week

Chairman, Special Event Committee on Science Trivia First Visayas Cluster S & T Fair

Coordinator, World Intellectual Property Organization (WIPO) National Workshop

Chairman, Special Event Committee on Science Trivia 8th Annual DOST S & T Fair,

Chairman, Special Event Committee on Science Trivia 7th Annual DOST S&T Fair

Resource Speaker, Technology Fair & Invention Contest '96 Investors' Forum

Member, Panel of Evaluators, Effectiveness of the Use of Concept Mapping in Teaching Selected Topics in General Chemistry I

Member, Board of Judges, 1995 University Outstanding Student Prototype, Technological University of the Philippines

Member Board of Judges, Search for Outstanding Researcher at Quezon City Science High School

Chairman, Special Event Committee on Science Trivia, 6th Annual DOST S & T Fair

Member, Board of Judges, Search for the Youth Science and Technology Researcher, DECS Region III

Technical Consultant, Food Processing Tech for Home Scale Production, NDAP Carnarines Sur Chapter and PROSAMAPI Coop

Technical Trainor, Nutri-Snack Production Center, Urdaneta, Pangasinan

Resource Speaker, Symposium and Exposition of S&T for Commercialization Camarines

Sur National High School

Resource Speaker, Community Based Processing of Nutritious Foods/Supplementary Mix, Dept of Social Welfare & Devt

Resource Speaker, Investor's Forum, National Science and Technology Week

Resource Speaker, Nutritional Food Processing Technologies, Regional Technology Fair, Legaspi City, Philippines

Resource Speaker, 8th Regional Research Utilization & Tech Transfer Seminar-Workshop on Food & Nutrition Researches

Member, Board of Judges, Search for the Youth Science Researchers, DECS Region III

Member, Comm for 7th Reg. Research Utilization & Tech Trans, Seminar Workshop on Food & Nutri Researches

Coordinator, Study Tour on Assistance to the Food Industries Research Institute (Vietnam)

Statistical Adviser, Graduate Thesis on "Storage Stability of Ascorbic Acid on Ready to Drink Orange Juice"

Member Board of Judges, Science Project Competition Mathematics & Physical Science Dept., TUP

Member, Committee for 13th Series of Seminars on Food & Nutrition Researches Lung Center of the Philippines

Member, Board of Judges, Techno Projects, Division Science and Technology Fair and Quiz, Ramon Magsaysay High School

Chairperson, Membership Committee, Buklod ng Kabataang. Kawani Food and Nutrition Research Institute,

Vice Chairman, Committee for Food Technology Fair '82 (Part II), National Food Authority,

Resource Speaker, Nutrition Month Celebration, Home Economics Department, Technological University of the Philippines

Project Leader, Demonstration, Utilization and Promotion of Appropriate Technologies Through Exhibits

Member,, Technical Action Group, KKK Ministry of Human Settlement

Honors / Awards

Certificate of Merit as University Scholar, University of the Philippines, Q.C. 2003

Research Fellowship, UNESCO & Ministry of Educ & Culture of Japan (MONBUSHIO), Tokyo Institute of Technology 1989

Certificate of Merit as College Scholar, University of the Philippines, Q.C. 1984

University Scholarship Grant, National University 1974-1975

Model Employee of the Year, Nutritional Food Processing Research Program - FNRI

Australian Leadership Award, Brisbane, Australia 2008 Ag 4 - S 5

Trainings

Regional Economic Dev't - Manager Workshop 2009, Berlin, Germany 2009 Ag - S 5

Technology Management for Publicity Funded Universities & R&D Institutes, CSB Hotel, DLS-C B KIC Campus, Malate, Manila 2008 Ji 15-18

Effective Customer Service to Support SET-UP, Cebu Grand Hotel, Cebu City 2008 Ap 2-5

Stakeholder's Meeting for IT Powered Tech Trans Mech for SMEs: Accomplishment & Future Directions, Atrium Hotel, Faridabad, India 2008 F 29 - 30

Training Management and Evaluation, Fontana, Leisure Parks, Clark Field Pampanga 2007 S 10-12

Preparation of Feasibility Study for Technical Business Incubation, Hotel Intercontinental, Makati City 2007 O 22-23

Strengthening Intellectual Property Systems Mgmt in DOST R&D Agencies, Phinma Training Center, Tagaytay City 2007 N 26-29

Capability Building for Technology Business Incubator, Marco Polo Hotel, Cebu City 2007 Je 14-15

Trainer's Training on Streetfood Vending (Resource Speaker), Food and Nutrition Research Institute 2002 My 7-9

Seminar-Workshop on Trainor's Training on Streetfood Vending, FNRI Training Room 2002 My 7-9

Exchange Scientist Survey on Safety & Microbial Control for Fresh & Processed Foods, Japan 2001 O 15 - N 3

3rd Mindanao Food Congress, Mindanao Business Council, Butuan City Gym 2001 F 20-22

Seaweed Planning Workshop SEAFDEC AQD, Tigbauan, Iloilo 2001 Ag 2-3

Symposium on Nutritional Guidelines for Filipinos 2000, Manila Midtown Hotel, Ermira, Manila 2000 Je 13

Inventors' Planning Workshop Technology Application and Promotion Institute, TAPI AVRoom, Bicutan, Taguig 2000 Ja 17-19

Workshop IV of Integrating & Enhancing the Research Priority Setting for Agri Biotech in the Phils., CERDAF Conference Room, Q.C. 2000 F 2

Final Seminar of Integrating & Enhancing the Research Priority Setting for Agri Biotech in the Phils., PCARRD, Los Banos, Laguna 2000 Mr 22

Workshop II of Integrating & Enhancing the Research Priority Setting for Agri Biotech in the Philipp, PCARRD Paseo del Valmayor, Los Baños Laguna 2000 Ja 27

Technical Symposium on Food Safety, Department of Health (DOH)DOH Convention Hall, San Lazaro Compound, Manila 1999 O 27

PIChE-DOST 1st Technical Session, DOST Executive Lounge, Bicutan, Taguig 1999 N 11

60th PIChE National Convention, Manila Midtown Hotel, Ermita, Manila 1999 F 25-27

Seminar/Workshop on Entrepreneurial Capability Building, DOST Executive Lounge 1998, Mr, 16-18

Training Workshop in Technology Fusion, Asian Productivity Center, Taipei, Taiwan 1998 S 15-18

Training-Workshop in Technology Fusion, Taipei, Taiwan 1998 S 15 - 18

Regional Training in Intellectual Property for Developing Countries of Asia & the Pacific, Colombo, Sri Lanka 1998 JI 13 - 17

Symposium on Nutrition - Related Lifestyle Diseases, FNRI Auditorium, Bicutan, Tagig 1998 O 29

36th PAFT Annual Convention, Manila Galleria Suites, Ortigas Avenue Mandaluyong City 1997 N 17-19

Seminar Workshop on Harmonizing System For Common Food Processing Facilities in the Regions, Villa Virginia, Antipolo, Rizal 1997 Ap 7-8

World Intellectual Property Organization (WIPO) National Workshop, Bayview Park Hotel, Roxas Boulevard 1997 Ag 18-19

Phil Sweet Potato Congress-Symposium w/ Theme: Sweet Potato in 21st Century: Prospects & Problem, PRCRTC, VISCA, Baybay, Leyte 1996 Mr 19-20

Technology Fair & Invention Contest '96 Investors' Forum, Corazon de Jesus College, AVR, Digos, Davao del Sur 1996 Je 13-16

Regional Conference on "Food Fortification: Science and Technology and Policy", Hotel Intercontinental, Manila 1996 D 3-5

Symposium on "1993 Food Consumption Survey Results", FNRI Auditorium, Bicutan, Taguig 1995 O 26

Seminar-Workshop on Admin & Extension, Strategy of the Sericulture Industry in the Philippines, Hotel Nikko, Manila Garden, Makati City 1995 N 21-22

Mushroom Industry Development Planning Workshop, Mondragon House, Gen. Gil Puyat Avenue, Makati City 1995 Ja 19-20

Regional Symposium on Chemical Engr. Basic Aspects & Applications in Energy & Environmental Tech, Manila Pavilion, Manila 1994 O 24-26

Symposium on 1993 National Nutrition Survey: Highlights and Issues, DOST Exec. Lounge, Bicutan, Taguig 1994 O 14

International Conference on Food Preservation and Security, EDSA Plaza Shangri-La Hotel, Mandaluyong 1994 N 8-11

32nd PAFT Annual Convention, PICC Roxas Boulevard, Manila 1993 N 11-12

Echo Seminar on "Ethics and Research on Human Subjects" Ermita Health Science Community, UP-PGH Institute of Ophthalmology Auditorium 1992 Je 22

31st PAFT Annual Convention, PICC Roxas Boulevard, Manila 1992 N 12-13

Symposium and Exposition of Science and Technology for Commercialization, Camarines Sur National High School, Naga City 1991 O 22-24

Seminar in Community Based Processing of Nutritious Foods/Supplementary Mix, DSWD, Odiongan, Romblon 1991 JI 14-19

Seminar on Wellness Clinic, FNRI Auditorium, Bicutan, Taguig 1990 JI 18

Department of Trade and Industry (DTI) Investment Opportunities Seminar, Banawe Hotel, Ifugao 1990 My 18-20

8th Regional Research Utilization & Tech Transfer Seminar-Workshop on Food &

Nutrition Researches, Zamboanga City 1990 D 11-12

Post Graduate University Course in Chemistry and Chemical Engineering, Tokyo Institute of Technology, Tokyo, Japan 1988 O - 1989 S

Seminar-Workshop on Food & Nutrition Researches, Food & Nutrition Research Institute, Taft Avenue, 1988 JI 18-19

Seminar on "Approaches to Sensory Evaluation", Food Management Research Program, Food and Nutrition Research Institute, Taft Avenue 1987 Mr 18

Seminar-Workshop on Food and Nutrition Researches, Nutrition Center of the Philippines, Makati City 1986 JI 16-17

Seminar-Workshop on Food & Nutrition Researches, FNRI Auditorium, Taft Avenue, Manila 1985 JI 25-26

Seminar-Workshop on Food and Nutrition Researches, FNRI Auditorium, Taft Avenue, Manila 1984 JI 23-24

9th Series of Seminars on Food and Nutrition Researches, FNRI, Manila 1983 JI 19-20

Training on Financial Analysis, Economic Devt. Foundation, Makati City 1983 Ap 4-12

43rd National Convention of Phil. Institute of Chemical Engineers, Manila Garden Hotel, Makati 1982 Mr 26-27

2nd Congress of Asian Pacific Confederation of Chemical Engineers, Manila Hotel, Manila 1981 F 8-12

41st Nat'l Convention & 2nd Cong of Asian Pacific Confederation of Chem Engineering, Manila Hotel, Manila 1980 Mr

Papers Presented

Garcia, E.I. (2008). Technology Transfer Network for SME's in the Philippines: Achievements and Future Directions, Stakeholder's Meeting for IT Powered Technology Transfer Mechanisms: for 5MEs: Accomplishments and Future Directions.

Garcia, E.I. (2007). Food Safety Protocol for Green Mussels (*Perna viridis*), CNFS Research Presentation, Manila.

Garcia, E.I. (2006). Business Plan: Integrated "Tahong" (*Perna viridis*) Processing Plant, Course FS 357, College of Home Economics, University of the Philippines.

(2005). Development and Consumer Acceptability of "Balsamic" Style Sub Iloko, Course FS 236 College of Home Economics, University of the Philippines.

Garcia, E.I. (2001). Technology Survey on Safety and Microbiological Control for Fresh and Processed Foods: An Assessment for Adoption of Micro and Small Enterprises in the Phils, DOST-JSPS General Exchange Program.

Garcia, E.I. (1998). Technology Fusion in Small Industries: Philippine Experience, Symposium on Technology Fusion in Small Industries.

Garcia, E.I., Perez, M.L. (1996). Investment Opportunities for Technology-Based Enterprises, Technology Fair & Invention Contest '96: Investor's Forum, Cor Jesu College, AVR, Digos, Davao del Sur.

Garcia, E.I., De Guzman, Ma. P.E., Marero L.M., Martin, A.M., Molano, B.T. (1992). Prospects for Economic Productivity and Nutrition Intervention Through Communal Food Processing Center, 11th International Congress of Dietetics.

Garcia, E.I. (1990). Livelihood Opportunities from Nutritional Food Processing: A Countryside Venture, 8th Regional Research Utilization & Technology Transfer Seminar-Workshop on Food & Nutrition.

Garcia, E.I., Koide, K. (1989). Profile Analysis of Particle Distribution in Solid Suspended Bubble Column with Draught Tube, 24th Int'l Postgraduate University Course in Chemistry & Chemical Engineering, Tokyo Institute of Tech., Tokyo, Japan.

Garcia, E.I. (1986). Analysis of Essential Amino Acid Scores for Predicting Protein Efficiency Ratio (PER) of Some Cereal Legume Blends, Statistical Center, University of the Philippines.

Publications

- 1992 Garcia, E.I., Cabagbag, M.C., Marero, L.M. Village Scale Technology of Sardine Styled Bottled "Tahong" (*Mytilus chemnitz*) Sardines. Philippine Journal of Science and Technology, 1992, 16(2):29-33.
- 1992 Garcia, E.I., De Guzman, Ma. P.E., Marero L.M., Martin A.M., Molano B.T. Prospects for Economic Productivity and Nutrition Intervention Through Communal Food Processing Center. Philippine Journal of Science and Technology, 1992, 16(2):17-22.
- 1990 Garcia, E.I., Cilindro, A.G. The Technical Viability of Home or Village-Scale Level Squash Catsup Production. Philippine Technology Journal, 1990, 14(2):35-41.
- 1989 Garcia, E.I., Molano, B.T., Cilindro, A.G. Technical Requirement for the Preparation of Squash Flour by Dry-Blanch-Dry Method. Philippine Technology Journal, 1989, 14(2):71-78.
- 1984 Garcia, E.I., Capanzana, M.V., Cilindro, A.G., Martin, AM., Jr., Guerrero, A.C. Feasibility Study of High Protein Snack Food Products: I Rice-Soy Curls. NSTA Technology Journal, 1984, 9(1):58-72.
- 1983 Garcia, E.I., Cilindro, A.G., Opiniano, O.G., Payumo, E.M. Technical Requirement for the Production of Protein Snack Food from Rice-Mongo Blend. NSTA Technology Journal, 1983, 8(1):60-70.

Name Mario Antonio L. Jiz II

Place of Birth Iloilo City

Gender Male

Civil Status Single

Organizational Affiliations

Staff Scientist, Department of Immunology, Research Institute for Tropical Medicine, Filinvest, Alabang, Muntinlupa City

Education

PhD in Pathobiology, Brown University, Providence, Rhode Island, USA 2009

B.S. Molecular Biology and Biotechnology, University of the Philippines, Manila 2001

Fields of Specialization

Molecular Biology

Biotechnology

Pathobiology

Diseases

Immunology

Employment

Teaching Assistant, Bio 53 (Introduction to Immunology)., Brown University, Providence, RI, Fall 2008-

Teaching Assistant, Bio 286 (Molecular Mechanisms of Disease)., Brown University, Providence, RI, Spring 2007-

Research Technician, RITM, 2002-2004-

Honors / Awards

Fulbright Scholarship, US Department of State 2005-2009

Young Investigator Award for Clinical Research, Rhode Island Hospital, Providence, RI 2008

Travel Award, XVII International Congress for Tropical Medicine and Malaria, Jeju, South Korea 2008 S

Undergraduate Scholarship, DOST 1997-2001

Cum laude, BS Molecular Biology and Biotechnology, University of the Philippines

Trainings

WHO TDR Diploma Course on Product Research & Development to Meet Public Health Needs, Nagasaki University, Japan 2009 O-N

17th International Congress for Tropical Medicine and Malaria, Jeju, South Korea 2008 S 29-O 3

Schistosoma Life Cycle Maintenance Training, Biomedical Research Institute, Rockville, MD, USA 2008 O

56th Annual Meeting of the American Society for Tropical Medicine and Hygiene, Philadelphia, Pennsylvania 2007 N 4-8

Papers Presented

Jiz, M.A.L. (2008 S 29-O 3). Pilot scale production, characterization, and antibody responses to the *Schistosoma japonicum* vaccine candidate paramyosin , 17th International Congress for Tropical Medicine and Malaria, Jeju, South Korea .

Jiz, M.A.L. (2007 N 4-8). Pilot-scale expression and purification of *Schistosoma japonicum* paramyosin, 56th Annual Meeting of the American Society for Tropical Medicine and Hygiene, Philadelphia, Pennsylvania .

Publications

- 2010 Xu, J., Acosta, L.P., Hou, M., Manalo, D.L., Jiz, M., Jarilla, B., Pablo, A.O., Olveda, R.M., Langdon, G., McGarvey, S.T., Kurtis, J.D., Friedman, J.F. Seroprevalence of Cysticercosis in Children and Young Adults Living in a Helminth Endemic Community in Leyte, the Philippines. *Journal of Tropical Medicine*, 2010, 2010:1-7.
- 2010 Agrawal, N., Acosta, L.P. Jiz, M.A. et al. Reduction in hookworm infection after Praziquantel treatment among children and young adult. *American Journal of Tropical Medicine and Hygiene*, 2010, 83(2):416-421.
- 2009 Olson, C.L., Acosta, L.P., Hochberg, N.S., Olveda, R.M., Jiz, M., McGarvey, S.T., Kurtis, J.D., Bellinger, D.C., Friedman J.F. Anemia of inflammation is related to cognitive impairment among children in Leyte, the Philippines. *PLoS Negl Trop Dis.*, 2009 O 20, 3(10):533.
- 2009 Jiz, M., Friedman, J.F., Leenstra, T., Jarilla, B., Pablo, A., Langdon, G., Pond-Tor, S., Wu, H.W., Manalo, D. Olveda, R.M. Immunoglobulin E (IgE) Responses to paramyosin Predict Resistance to Reinfection with *Schistosoma japonicum*. *Infection and Immunity*, 2009, 77:2051-2058.
- 2007 Coutinho, H.M., Acosta, L.P., Wu, H.W., McGarvey, S.T., Su, L., Langdon, G.C., Jiz, M.A., Jarilla, B., Olveda, R.M., Friedman, J.F., Kurtis, J.D. Th2 cytokines are associated with persistent hepatic fibrosis in human *Schistosoma japonicum* infection. *Journal of Infectious Disease*, 2007 Ja 15, 195(2):288-295.
- 2006 Leenstra, T., Acosta, L.P., Hai-Wei Wu, Langdon, G.C., Solomon, J.S., Manalo, J.L., Li Su, Jiz, M., Jarilla, B., Pablo, A.O., MacGarvey, S.T., Olveda, R.M. Friedman J.F., Kurtis, J. T-Helper-2 Cytokine Responses to Sj97 Predict Resistance to Reinfection with *Schistosoma japonicum*. *Infection and Immunity*, 2006 Ja, 74(1):370-381.
- 2006 Coutinho, H.M., Leenstra, T., Acosta, L.P., Su, L., Jarilla, B., Jiz, M.L., Langdon, G.C., Olveda, R.M., Kurtis, J.D., Friedman, J.F. Pro-inflammatory cytokines and C-reactive protein are associated with the Context of *Schistosoma japonicum* infection. *American Journal of Medical Hygiene*, 2006, 75:720-726.
- 2006 Coutinho, H.M., Acosta, L.P., McGarvey, S.T., Jarilla, B., Jiz, M.L., Pablo, A., Su, L., Manalo, D.L., Olveda, R.M., Kurtis, J.D., Friedman, J.F. Nutritional status improves after treatment of *Schistosoma japonicum* - Infected children and adolescents. *Journal of Nutrition (American Society for Nutrition)*, 2006, 136:183-188.
- Jiz, M.A.L. (Kurtis, J.D. as adviser) Vaccine development for schistosomiasis japonica: paramyosin as a leading candidate . Thesis, .

Name Alvin B. Marcelo
Place of Birth Quezon City, Manila, Philippines
Date of Birth April 14, 1966
Gender Male
Civil Status Married

Organizational Affiliations

Director, Postgraduate Institute of Medicine University of the Philippines, College of Medicine, Manila

Chief, Medical Informatics Unit, UP College of Medicine, Pedro Gil St., Ermita, Manila

Associate Professor of Surgery (Trauma), UP-Manila, Manila

Director, National Telehealth Center, University of the Philippines, Manila

Education

BS Basic Medical Sciences, University of the Philippines, Manila 1998

MD, University of the Philippines, Manila 1991

Fields of Specialization

Medical Sciences

Medical Informatics

General Surgery (Trauma)

Employment

Director, National Telehealth Center, -

Director, Southeast Asia International Open Source Network, -

Associate Professor of Surgery (Trauma), UP Manila, -

Association Membership

Member, National Research Council of the Philippines (NRCP)

Director, University of the Philippines Manila/National Telehealth Center

Director, Southeast Asia, International Open Source Network

Founder and Past President, Philippine Medical Informatics Society, Inc.

Fellow, Philippine College of Surgeons

Chair, Sub-committee on Surgical Informatics, Philippine College of Surgeons

Executive Secretary, Philippine Medical Association Information Technology Committee

Member, HL7 (Health Level 7 Standards on Electronic Data Interchange for Health

Core Group Member, E-Health Seminar Series, Philippine Council for Research and Health Development

Project Leader, National Institutes of Health Manila Study Group on Standards for Health Information

Project Leader, NIH- Study Group on Y2K Preparedness for Hospitals

Honors / Awards

The Outstanding Young Men 2005 for Medicine /Medical Informatics, Philippine Jaycees 2005

One of the The Outstanding Young Men (TOYM) 2005, Philippine Jaycees, Awarded by Pres. Gloria Macapagal-Arroyo, Malacanan Palace 2005 D 2

Finalist, Stockholm Challenge 2006 for the Community Health Information Tracking System, 2006

Outstanding Medical Intern in Psychiatry, Philippine General Hospital 1991

Outstanding Medical Intern in Internal Medicine, Philippine General Hospital 1991

Outstanding Medical Intern in Family Medicine, Philippine General Hospital 1991

UP College of Medicine Class of 1941 Leadership Award, UPCM

Palmar Scanning: Redefining a Burn Chart for Filipinos, Dept. of Surgery, UP College of Medicine(UPCM) 1997 My

Trainings

Philippine Dermatological Society's Health Information System (PDS-HIS), Discovery Suites 2006 Mr 22

Philippine General Hospital E-Data Seminar (facilitator), PGH Training Room, PGH, Manila 2005 S 22

2nd National Bioinformatics Conference and Convention, Thomas Aquinas Research Complex Auditorium, University of Santo Tomas (UST), Espana, Manila- 2005 O 21

Pre-investiture Scientific Forum, UP-PGH Social Hall, Manila 2005 JI 20

POST-DOCTORAL TRAINING: Visiting Scientist and Fellow in Medical Informatics, National Library of Medicine, National Institutes of Health, Bethesda, Maryland, USA 1999-2001

Building a Personal Computer, PC Builders Inc., Camelot Hotel, Quezon City 1998 O 10

Seminar on Intellectual Property Rights, University of the Philippines Faculty Center, UP Diliman, Quezon City 1998 My 5

Towards a Relevant Medical Education. Joint Seminar-Workshop of the CHED-PMA-APMC, PMA Building 1998 Mr13

Workshop on Medical Informatics (Facilitator), UP College of Medicine, Manila 1998 Mr 13

E-Health Seminar Series, Philippine Council for Research and Health Development, UP Manila Social Hall, Manila 1998 JI 15

9th Slice of Life Conference: Computer Applications for Medical Education, University of South Florida, Tampa, Florida, USA 1998 Je 25

Towards an Electronic Health Record Asia '97, Hyatt Oriental Hotel Scotts Road Singapore, Octobe 1997 O 1-2

Second Scientific Symposium on Medical Informatics: Application of the Computer in Health Care. Spon, UP College of Public Health 1997 JI 23

One-day seminar on the IBM RS6000 (Deep Blue), Intercontinental Hotel, Makati City 1997 D 29

First Scientific Symposium on Medical Informatics: Initiatives in UP Manila (convenor), College of Medicine Annex 2 1996 O 9

Workshop on Telemedicine by AIC Conferences, Shangri-La Singapore 1996 O 17

Seminar on Teaching Online, UPLB and the University of the Philippines open University, College, Laguna 1996 N 26-28

Seminar on Telepathology by Dr. Paul Fontelo (AFIP Department of Telepathology), UP College of Medicine, Manila 1996 N 13

Lecture on Electronic Health Records by Dr. Michael Yang, Philippine General Hospital Out-Patient Dept., PGH 1996 D 2

RESIDENCY TRAINING : General Surgery Program., Department of Surgery, University of the Philippines-Philippine General Hospital Medical Center 1992 Ja - 1996 D

POST-GRADUATE EDUCATION : University of the Philippines College of Medicine, INTARMED Program, UPCM, Manila 1984-1991

COLLEGE EDUCATION : BS Basic Medical Sciences, 198, University of the Philippines College of Medicine 1984-1988

Researches

Mekong Basin Disease Surveillance Project.

Completed

Doc2Doc: a telemedical collaboration system. (as advisor) 1998

Value of ultrasound in determining level of distal rectal pouch in infants with anorectal malformation without perineal fistula

Community Health Information Tracking System: A Modular Approach to Local Health Information Systems Development

Evaluation of the Decentralized Field Health Service Information System in Selected Infectious Disease Surveillance and Control Program Sites

Ongoing

Establishing a National Registry for Surgical Training Programs

Establishing a Health Information System for the Philippine Dermatological Society

Organizing and Managing the Philippine National Health Information Infrastructure

Portable Wireless Medical Record

An Adverse Event Reporting System for Clinical Protocols at the UP College of Medicine (UP College of Medicine)

The Portable Philippine National Drug Formulary

Papers Presented

Montalban, J., Marcelo, A.B. (2009 JI 8). Information and Communications Technology Needs Assessment of Rural Health Physicians in the Philippines, IEEE HealthCom 2008 Conference, Biopolis Way, Singapore.

Gavino, A.I., Marcelo, A.B. (2009 JI 8). Evaluation of SMS-based Telemedicine Service in

the Philippines, IEEE HealthCom 2008 Conference, Biopolis Way, Singapore.

Marcelo, A.B. (2009 JI 8). Design and Implementation of an Introductory Course on Information and Communications Technology for Rural Health Workers, IEEE HealthCom 2008 Conference, Biopolis Way, Singapore.

Marcelo, A.B., Fatmi, Z. (2009 Ap 1-3). The Effectiveness of Online Methods of Diagnosis for Difficult Tuberculosis Cases, Med-e-tel, Luxembourg.

Gavino, A.I., Tolentino, P.A.P., Bernal, A.B.S., Fontelo, P., Marcelo, A.B. (2008). Telemedicine via Short Messaging System (SMS) in rural Philippines, AMIA Annual Symposium proceedings / AMIA Symposium.

Marcelo, A.B. (2007 My 8-11). Community Health Information Tracking System, Open Source Health Care Alliance Conference, Federal Hotel, Kuala Lumpur, Malaysia.

Marcelo, A.B. (2007 My 8-11). The BuddyWorks Telehealth Project, Open Source Health Care Alliance Conference, Federal Hotel, Kuala Lumpur, Malaysia.

Marcelo, A.B. (2007 Je 15). Telehealth Initiatives in the Philippines: Country Report, Asia Pacific Telecommunity Regional Workshop on Telemedicine, Okiawa Convention Center, Okinawa, Japan.

Marcelo, A.B. (2005 O 21). State of the Art in Biomedical Informatics: The Network for Integrative Multidisciplinary Bioinformatics Utilization Strategies (NIMBUS), 2nd National Bioinformatics Conference and Convention, the Thomas Aquinas Research Complex Auditorium, University of Santo Tomas (UST), Espana, Manila.

Marcelo, A.B. (2005 O). Medical Records Management, Philippine College of Occupational Medicine United American Pharmaceuticals.

Marcelo, A.B. (2005 JI 20). Community Health Information Tracking System Relevance through ICT, Pre-investiture Scientific Forum, UP-PGH Social Hall, Manila.

Marcelo, A.B. (2005 D 15). The Philippine National Health Information Infrastructure, Health Informatics Blueprint Coordinating Council, Crown Plaza Hotel.

Tolentino, H.D., dela Cruz-Odi, M., Lazatin, P.F., Egay, L., Arenas-Corleto, T., Marcelo, A., Maramba, I., Bandola, E. (2004 S 7-11). Design and Implementation of an Open Source Prototype Telephony and Web-based Critical Event Reporting System for Continuous Quality Improvement Program in Anesthesiology, Medinfo 2004, San Francisco, USA.

Marcelo, A.B., Marcelo, P.F., Tolentino, H. (2004 Je 6-8). An SMS based Child Health Injury Surveillance System, Vienna. 7th World Conference on Injury Prevention and Safety Promotion - Safety 2004 Vienna, Austria, Europe Austrian Convention Center.

Castro, J., Wolf, F., Karras, B., Tolentino, H., Marcelo, A., Maramba, I. (2003). Critically Appraised Topics (CAT) peer-to-peer network, AMIA Annual Symposium Proceedings / AMIA Symposium..

Marcelo, A.B., Fontelo, P.A. (2000. O 26-28). A Pathology Report Metadata Registry: Framework for Semantic Interoperability Across Disparate Systems, Advancing Pathology Informatics, Imaging, and the Internet, Pittsburgh, Marriott City Center, PA.

Marcelo, A.B. (2000 S 27-29). Comparison of Open Source Medical Information Systems, Asia Pacific Association for Medical Informatics 2000 Conference, Hong Kong Convention Center, Hong Kong, SAR China.

Marcelo, A.B., Fontelo, P.A. (2000 O 24-28). Web-based Health Applications on Handheld Devices, Advancing Pathology Informatics, Imaging, and the Internet,

Pittsburgh Marriott City Center, PA,.

Marcelo, A.B., Fontelo, P.A. (2000 O 10-13). Web-based Medical Data Delivery for Handheld Devices, National Institute of Health Research Festival 2000, Bethesda, Maryland.

Marcelo, A.B. (2000 N 4-8). Open Source Technology in Health Care: Obstacles to Implementation, Strategies for Success, Annual Symposium of the American Medical Informatics Association 2000, Westin Bonaventure Hotel, Los Angeles, CA.

Marcelo, A.B. (2000 N 4-8). Comparison of Open Source Electronic Medical Records Systems, Annual Symposium of the American Medical Informatics Association 2000, Westin Bonaventure Hotel, Los Angeles, CA.

Marcelo, A.B., Fontelo, P.A. (2000 Ja 24-28). A Practical Method of Ensuring Privacy of Health Information on the Internet, Partnerships for Health in the New Millenium, Partnerships for Health,Omni Shoreham Hotel, Washington DC.

Marcelo, A.B., Fontelo, P.A. (1999 O 14-16). Effect of Image Compression on Telepathology: a randomized controlled trial, Advancing Pathology Informatics, Imaging, and the Internet, Pittsburgh Marriott City Center, PA.

Marcelo, A.B. (1999 Je 22-26). CAPPLET: A Web-based Drug Identifier, Slice of Life 1999, Thomas Jefferson University, Philadelphia, PA.

Marcelo, A.B. (1998 Je 24). Medical Informatics in Developing Countries., Slice of Life 1998, University of South Florida, Tampa, FL.

Marcelo, A.B. (1996 F 1). Cecal Volvulus, Philippine Society of Colon and Rectal Surgeons Scientific Meeting, Ciudad Fernandina.

Marcelo, A.B. (1995 D 11). Ultrasound for Imperforate Anus Patients without Perineal Fistula, Symposium on Imperforate Anus. Philippine Society of Pediatric Surgeons, Panay Room, Westin Philippine Plaza, Manila.

Marcelo, A.B. (1993 Jl 30). Actinomycosis of the Colon. Case Presentation, Bimonthly Scientific Meeting, Philippine Society of Colon and Rectal Surgeons, Shangri-La EDSA Plaza.

Marcelo, A.B. (1993 Je 16). Abdominal Actinomycosis: A Case Report., 4th Annual UP-PGH Boie Takeda Case Report Contest, Department of Surgery, UPCM-PGH ,Estrada Hall, PGH..

Marcelo, A.B. (1988 Ap). Occupational Hazards in the Philippine Mining Industry, Itogon Mines, Benguet, Department of Family and Community Medicine, UP College of Medicine, Manila.

Publications

- 2013 Marcelo, A., Gavino, A., Isip-Tan, I., Apostol-Nicodemus, L., Mesa-Gaerlan, F., Firaza, P., Faustorilla, Jr. J., Callaghan, F., Fontelo, P. A comparison of the accuracy of clinical decisions based on full-text articles and on journal abstracts alone: a study among residents in a tertiary care hospital.. Evid Based Med. doi:10.1136/eb-2012-100537, 2013, 18:48-53.
- 2011 Marcelo, A., Fatmi, Z., Firaza, P.N., Shaikh, S., Dandan, A.J., Irfan, M., Bari, V., Scott, R.E. An online method for diagnosis of difficult TB cases for developing countries. Stud Health Technology Inform /PMID: 21335706, 2011, 164:18-173.
- 2011 Marcelo, A., Adejumo, A., Luna, D. Health Informatics for Development: a Three-pronged

- Strategy of Partnerships, Standards, and Mobile Health. Contribution of the IMIA Working Group on Health Informatics for Development. Year Book of Medical Information / PMID: 21938332, 2011, 6(1):96-101.
- 2009 Marcelo, A.B. Telehealth in the Philippines. Telehealth in Developing Countries., Richard Wootton, Nivritti G. Patil, Richard E. Scott, and Kendall Ho.eds. Royal Society of Medicine Press/IDRC 2009 ISBN 978-1-85315-784-4 e-ISBN 978-1-55250-396-6, 2009:324 pp..
- 2007 Marcelo, A., Gumapos, M. Telehealth Initiatives in the Philippines. Journal of e Health Technology and Application, 2007 Je, 5(2).
- 2007 Marcelo, A. B.; Kuhn, K. A. (Editor); Warren, J.R., (Editor); Leong, Tze-Yun (Editor). Amsterdam: IOS Press, 2007. Health Informatics in the Philippines [online]. Medinfo 2007: Proceedings of the 12th World Congress on Health (Medical) Informatics; Building Sustainable Health Systems, Amsterdam, 2007, 129:2482-2483.
- 2005 Marcelo, A.B. Health Information Interoperability. Health Intell a publication of Zuelling Foundation, (Special Edition), 2005.
- 2005 Marcelo, A.B. Linking primary care information systems and public health information networks: Lessons from the Philippines. , 2005.
- 2005 Marcelo, A. Health Information Interoperability. Health Intel,a publication of Zuelling Foundation, Special Edition 2005., 2005:1-2.
- 2004 Corona, W., Marcelo, A.B., Wadleigh, R., et al. Analysis of ScieLLin (SCEL) as a candidate gene in esophageal squamous cell carcinoma. Anticancer research. 2004;, 2004, 24:1417-1419..
- 2003 Marcelo, A.B., Castro, J., Wolf, F., Karras, B., Tolentino, H., Maramba, I. Critically Appraised Topics (CAT) peer-to-peer network. AMIA Annual Symposium Proceedings, 2003:806.
- 2000 Marcelo, A.B. Effect of image compression on telepathology. A randomized clinical trial. Archive on Pathology Laboratory Medicine, 2000, 124(11):1653-1656.
- 2000 Marcelo, A.B. Developing Healthcare Applications using Common Open Source Medical Objects (COSMOS). Proceedings of the AMIA Symposium, 2000:1079.
- 1999 Marcelo, A. Standards for Health Information in the Philippines. National Institutes of Health, University of the Philippines Manila, 1999.
- 1998 Marcelo, A. Internet Relay Chat Conferences: A New Method of Delivering Continuing Medical Education for Filipinos. Acta Medica Philippina, 1998.
- 1996 Lukban, F.S., Marcelo, A. B. , de Vera, R.L. Perforated duodenal ulcer in a Filipino AIDS patient: a case report. Philippine Journal of Surgery Specialties, 1996 Ap-Je, 51(2):63-65.
- 1996 Marcelo, A.B., Danguilan, J. A Retrospective Study on Lung Carcinoma in the Philippines.. Department of Surgery. UP College of Medicine- Philippine General Hospital. 1996, 1996.

Name Florinia E. Merca
Gender Female
Civil Status Single
Home Address 2077 Waling-waling St., Pleasant Village, Los Baños, Laguna

Organizational Affiliations

Professor 12, Institute of Chemistry, CAS-UPLB, Los Baños, College, Laguna

Education

PhD. in Agricultural Chemistry, University of the Philippines at Los Baños, College, Laguna 1980

M.S. Food Science, University of the Philippines at Los Baños, College, Laguna 1972

B.S. Agricultural Chemistry, University of the Philippines at Los Baños, College, Laguna 1968

Fields of Specialization

Physico-chemical properties of promising rice varieties

Chemical Sciences

Biochemistry and carbohydrate chemistry

Employment

Asst. Professor III, UPLB, 1980 JI -D-

Instructor I, UPCA, 1968 JI -D-

Sr. Research Asst., NSRC, 1972 Ap -to June 1-

Instructor III, UPCA, 1972 JI --

Asst. Professor IV, UPLB, 1982 Ja--

Asst. Professor V, UPLB, 1986 Ja --

Associate Professor I, UPLB, 1988 F--

Associate Prof. III, UPLB, 1991 JI - 993 My-

Associate Prof. IV, UPLB, 1993 Je - 1995 O 14-

Professor IV, UPLB, 1997 Ja - 2000 Je-

Professor VIII, UPLB, 2000 JI - 2005 Je-

Professor XII, UPLB, 2005 JI-date-

Association Membership

Member, National Research Council of the Philippines

Member, Kapisanan ng mga Kimiko sa Pilipinas (Chemical Society of the Philippines)

Member, Philippine Association of Food Technologists

Member, Philippine Society of Animal Science

Member, Crop Science Society of the Philippines 1972 to date
member and Fellow, Philippine Association for the Advancement of Science 1983-1984
Member, Gamma Sigma Delta Honor Society
Member, Philippine Biochemical Society

Honors / Awards

Achievement Award (Chemical Sciences), NRCP-DOST 2005
UPLB Outstanding Researcher Award, UPLB 2006
UP Scientist I, UP 2006
International Publication Award, 2006
PFCS Achievement award in Chemistry Education, Philippines Federation of Chemistry Society 2007 Ap
UP Scientist Award, University of the Philippines 2009 Ja -2011 D
Best Paper Award: Alcohol hydro greater activity of purple nut sedge under upland lowland condition, USSP 2007

Trainings

Pest Management Council of the Philippines Convention, Tagbilaran Hotel 2007 Mr 20 - 28
23rd PAASE (Philippine-American Academy of Science and Engineering)-52nd PhilAAS (Philippine Association, Manila 2003 JI 11-12

Researches

Completed

Isolation and production of golden snail lectin (*Pomacea* sp.) by affinity chromatography
Optimized conditions for the preparation and characterization of chitosan from two species of prawns
Cytokinin production by plant growth promoting bacteria
Antioxidant Activity of the Philippines Fruits Isolation and Characterization of Carabao Lactofruits
Isolation & Structure Elucidation of a Bioactive non-lectin Protein from *Synoptic Maculate*
Biological Properties of Lectin from Sea Cucumber (*Holothuria scabra* Jaeger)

Papers Presented

Merca, F.E. (2007 Mr 20 - 28). Pest Management Council of the Philippines Convention, Tagbilaran Hotel .
Mojica, E.R.E., Merca, F.E. (2004 O 6-7). Lectins from internal organs of sea cucumbers, 8th Southern Luzon Zonal R & D Review, DLSU, Taft Ave., Manila.
Mojica, E.R.E., Merca, F.E. (2003). Fabrication of carbon paste electrode modified with black sea cucumber lectin for mercury (II) analysis, 54th Annual Meeting of the International Society of Electrochemistry, São Carlos.
Mojica, E.R.E., Merca, F.E., Tejada, A.W. (2002). Partial characterization of fractions of neem (*Azadirachta indica* A. Juss) leaf extracts with insecticidal activity, 33rd Anniversary

& Annual Scientific Conference of the Pest Management Council of the Philippines, Inc. (PMCP). Grand Men Seng Hotel, Davao City.

Mojica, E.R.E., Merca, F.E., Singson, E.O. (2002). Preliminary screening for lectin activity of some common insects. Proceedings of the 33rd p 94., Anniversary & Annual Scientific Conference of the Pest Management Council of the Philippines, Inc. (PMCP). Grand Men Seng Hotel, Davao City..

Peña, J.T., Baltazar, A.M., Merca, F.E. (). Alcohol hydro greater activity of purple nut sedge under upland lowland condition, USSP (Best Paper Award).

Publications

- 2009 Pena-Fronteras, J.T., Villalobos, M.C., Baltazar, A.M., Merca, F.E. Adaptation to flooding in upland and lowland ecotypes of *Cyperus rotundus*, a troublesome sedge seed of rice: tuber morphology and metabolism. *Annals of Botany*, 2009, 103(2):295-302.
- 2009 Merca, F.E. et al. Growth inhibition of pathogenic bacteria by lactoferrin pepsin hydrolyzate fractions from milk of carabao (*Bubalus bubalis* L.). *Philippine Journal of Veterinary Animal Science*, 2009, 35(1):15-26.
- 2008 Villanueva, S.S., Roxas, N.P., Capitan, S.S., Acda, S.P., Merca, F.E. Hematologic assessment in commercial chicken (*Gallus gallus domesticus* L.) layers during first annual molt. *Philippine Journal of Veterinary Animal Science*, 2008, 34(2):159-168.
- 2008 Angeles, A.A., Merca, F.E., Roxas, N.P. Isolation and characterization of lactoferrin from carabao milk whey (*Bubalus bubalis* L.). *Philippine Journal of Veterinary Animal Science*, 2008, 1:43-54.
- 2007 Santiago, D.H.O., Garcia, V.V., Dizon, E.R., Merca, F.E. Antioxidant activities, flavonol and flavanol content of selected Southeast Asian indigenous fruits. *The Philippines Agricultural Scientist*, 2007, 90(2):123-131.
- 2007 Mojica, E.R.E., Merca, F.E., Micor, R.L. Fabrication of a sensor using seed lectin in voltammetric detection of heavy metals. *Philippine Journal of Science*, 2007, 136(1):19-24.
- 2007 Ereful, N.C., Paterno, E.S., Merca, F.E. Assessment of cytokine production in same plant growth promoting bacteria. *Asia Life Science*, 2007, 16(2):137-152.
- 2007 Calibo, C.L., Librojo, N.T., Merca, F.E. Preparation and Characterization of chitosan from the crustacean of 2 species of Prawns, *Penaeus esculentus* and *P. monodon*. *Asia Life Science*, 2007, 16(2):198-194.
- 2007 Martinez, M.R., Torreta, N.K., Merca, F.E., Nacorda, J.O. Metal resistance and removal by two strains of the green alga, *Chlorella vulgaris* Beijerinck, isolated from Laguna de Bay. *Philippines Journal of Applied Phycology*, 2007, 19(6):701-710.
- 2007 Martinez, M.R., Torreta, N.K., Merca, F.E. Algal Biotechnology. *Journal of Applied Phycology*, 2007, 19(6):603-605.
- 2007 Mojica, E.R.E., Merca, F.E. Isolation and partial characterization of lectin from the seeds of *Artocarpus camansi* Blanco. *Asian Journal of Plant Sciences*, 2007, 6(5):757-764.
- 2007 Romero, J. B., Montano, M.N.E., Merca, F.E., Villanueva, R.D., Ming-Long Liao, Bacic, A. Seasonal variation in the composition and gel quality of agar from *Gracilaria Edulis* in the Philippines. *Botanica Marina*, 2007, 50:191-194.
- 2006 Mojica, E.R.E., Merca, F.E. Partial characterization of a lectin from the internal organs of

- black sea cucumber (*Holothuria atra* jaeger). *Asia Life Sciences*, 2006 JI D, 15(2).
- 2006 Torio, M.A.O., Saez, J., Merca, F.E. Physicochemical characterization of galactomannan from sugar palm (*Arengga sacchararifera* Labill) endosperm at different stages of nut maturity. *Philippine Journal of Science*, 2006, 135(1):19-30.
- 2005 Mojica, E.R.E., Merca, F.E. Biological Properties of Lectin from Sea Cucumber (*Holothuria scabra* Jaeger). *Journal of Biological Sciences*, 2005, 5:472-477..
- 2004 Mojica, E.R.E., Merca, F.E. Lectin from the body walls of black sea cucumber (*Holothuria atra* Jaeger). *Philippine Journal of Science*, 2004, 133(2):77-85.
- 2002 Gana, A.E., Merca, F.E. Isolation and purification of a cytotoxic lectin from brown sea cucumber by affinity chromatography. *Philippine Agricultural Scientist*, 2002, 85(3):236-247.
- 2001 Asnani, A., Merca, F.E. Physico-chemical characterization of the golden snail (*Pomacea* sp.) lectin. *Asia Life Sciences*, 20011-22/ Jan-June i, 10(1):1-22.
- 2001 Escalante, L.V., Merca, F.E., Juliano, B.O. Amylodextrin produced by hydrochloric acid corrosion of raw rice as fat replacer. *The Philippine Agricultural Scientist*, 2001, 84(1):76-82.
- 2000 Romero, J.B., Montaño, M.N.E., Merca, F.E., Rumbaoa, R.G.O., Villanueva, R.D. Effect of sucrose on some physical properties of different Philippine agars. *Philippine Journal of Science*, 2000, 129(1):7-13.
- 2000 Romero, J.B., Montano, M.N.E., Merca, F.E., Rumbaoa, R.G., Villanueva, R.D. Effect of sucrose on some physical properties of different Philippine agars Phil.. *Philippine Journal of Science*, 2000, 129(1):7-13.
- 1999 Completo, G.C., Merca, F.E., Baltazar, A.M. Effect of Fenoxaprop on Acetyl-CoA Carboxylase Activity in Rice and Two Grass Weeds. *The Philippine Agricultural Scientist*, 1999 JI-S, 82(3):300-312.
- 1998 Aragonés, R.C., Merca, F.E. Two Lectins from the Seeds of Lablab Bean (*Lablab purpureus* Linn cv. Highworth). *Philippine Journal of Science*, 1998 Ja-Mr, 127(1):15-37.
- 1998 Merca, F. E. Lectins. *Philippine Science Encyclopedia. Pharmaceutical and Chemical Sciences*. NRCP. Copyright 1998 ISBN 971-91932-8-x, 1998:208-224.
- 1998 Ynalvez, R.A., Merca, F.E. Isolation and purification of golden snail lectin by affinity chromatography. *Asia Life Sciences*, 1998, 1(1):23-38.
- 1997 Merca, F.E., Lacsamana, M.S., Ynalvez, R.A. Lectin from Golden Apple Snail (*Pomacea* sp.). *Proceedings of the 3rd National Malacological Convention, UP Diliman, Quezon City, Philippines, 1997 Ap 14.*
- 1997 Merca, F.E., delos Reyes, A.M. Isolation and characterization of a lectin from *Bacillus thuringiensis* subs. *Morrisoni* (Serotype H8a-8b) PG-14.. *Philippine Journal of Science*, 1997, 126(1):1-18.
- 1997 Tipa, E.V., Tejada, A.W., Barril, C.R., Merca, F.E., Quintana, B.B. Rapid bioassay of pesticide residues in vegetable samples from Laguna, Philippines. *Philippine Agriculturists* v. 80 (1 & 2) 1-12., 1997, 80(1-2):1-12.
- 1994 Merca, F.E. Lectins from Golden Snail. *Proceeding of the STARDEC 7th Regional Symposium R & D Highlights, PCARRD, Los Baños, Laguna, 1994 JI 29.*
- 1994 Lacsamana, M.S., Merca, F.E. Isolation and characterization of a lectin from the visceral

- region of the golden snail, Pomacea. *Philippine Journal of Science*, 1994, 123(1):77-97.
- 1994 Merca, F.E., Yu, J.L., dela Rosa, M.C. Characterization and utilization of the gel and gum-forming compounds in coconut water. *Philippine Technology Journal V.* 19(3):39-58., 1994, 19(3):39-58.
- 1989 Merca, F.E., Macalma, T.B., Macapinlac, M.P. Isolation and Characterization of a Lectin from *Cynometra ramiflora*. *Philippine Journal of Science*, 1989 Ja-Mr, 118.
- 1989 Merca, F.E., Reyes, L.B. Isolation and partial characterization of a lectin from *Ampullaria luzonica* Reeve. *Philippine Journal of Science*, 1989, 118:307-322.
- 1988 Del Rosario, E.J., Merca, F.E. (eds.) *Workshop Proceedings on Coconut Processing and By-product Utilization*. UPLB, 1988 Ja 28-29:p. 201.
- 1985 Bajet, C.M., Merca, F.E. Some Chemical Constituents and Chemical Quality Indices of Selected Varieties of Burley Turkish and Filter Tobacco. *Philippine Agriculturist*, 1985, 68(2):315-321.
- 1981 Merca, F.E., Juliano, B.O. Physico-Chemical Properties of Intermediate Amylose and Waxy Rice Differing in Grain Quality. *Die Starke*, 1981, 33(8):253-260..
- 1980 Juliano, B.O., Perez, C.M., Blakeney, A.B., Breckenridge, C., Castillo-Toro, A., Choudhury, N.H., Kongseeree, N., Laignelet, B., Merca, F.E., Paule, C.M., Webb, B.D. Report of the International Cooperative Testing on Gel Consistency of Milled Rice. *Il Riso*, 1980, 29(3):233-237.
- 1979 Merca, F.E., Masajo, T.M., Bustrillos, A.D. Rice Grain Quality Evaluation in the Philippines. *Chemical Aspects of Rice Grain Quality*, International Rice Research Institute Los Baños, Philippines, 1979:161-166.
- 1968 Esguerra, F.C., Banzon, J. Tree Sources of Proteins. *Convention Proceedings, First Postwar Convention on Science and Technology*, Manila, Philippines, 1968 JI.
- Mojica, E.R.E., Juanillas, J.L., Micor, J.R.L., Merca, F.E. Utilization of jackfruit (*Artocarpus heterophyllus* Lam) seed lectin as biological component of a metal sensor. *Philippine Journal of Crop Science*, .

Name Christopher P. Monterola

Place of Birth San Pablo City, Laguna

Date of Birth April 8, 1976

Gender Male

Civil Status Single

Organizational Affiliations

Associate Professor 3, National Institute of Physics, College of Science, University of the Philippines, Diliman, Quezon City

Senior Scientist and Principal Investigator, Complex Systems Programme, Computing Science Department, Institute of High Performance Computing, A*STAR, Singapore

Education

Ph.D. in Physics, University of the Philippines, Diliman, Quezon City 2001

M.S. Physics, University of the Philippines, Diliman, Quezon City 1999

B.S. Applied Physics (Magna Cum Laude), University of the Philippines, Diliman, Quezon City 1997

Fields of Specialization

Modelling Complex Systems

Computational Physics

Social Networks

Neural Networks

Biological Physics and Forecasting

Physics

Employment

Postdoctoral Fellow, Max Planck Institute for the Physics of Complex Systems, Dresden, (2003-2005)-

Associate Professor 7, National Institute of Physics, UP Diliman, (2005-2012)-

Instructor 2, National Institute of Physics, UP Diliman, 1997 – 1999-

Assistant Professor 3, National Institute of Physics, UP Diliman, 2002-2005-

Instructor 7, National Institute of Physics, UP Diliman, 1999-2002-

Association Membership

Member, National Research Council of the Philippines (NRCP)

Member, International Institute of Forecasters

Member, Samahang Pisika ng Pilipinas [SPP]

Vice Chairman, Bidding Committee (UP Diliman System)

Program Coordinator, Instrumentation Physics Laboratory, National Institute of Physics

Adviser, UP Danaw ng mga Kinabukasan ng Laguna [UP DAKILA]

Co-Adviser, UP Physics Association [UPPA]

Honors / Awards

Centennial Professorial Award, 2008

NRCP Scientific Poster Exhibition, 1st, 2nd, 3rd place/ Overall Disciplines 2008

Outstanding Young Scientist Award (OYS), NAST-DOST 2011

Talent Search for Young Scientist Award., NAST-DOST 2011

First Prize Winner, IEEE SCALE Challenge. 2013

17 Outstanding Seniors of the UP System Phi Kappa Phi International Honor Society, 1997

Conferred the scientist rank 1, University of the Philippines System 2009 - present

University of the Philippines Centennial Professorial Chair, NRCP (2008-2012)

Edgardo Gomez Award for Excellence in Dissertation Research, 2002

Most Outstanding Masteral Graduate student, College of Science, UP 1999

U.P. Circle - Brunei Scholarship for Science and Technology, 1997 – 1999

Magna Cum Laude, BS Applied Physics, 1997

Award for Excellence in Science by the Department of Science and Technology, DOST 1997

Gerry Roxas Leadership Award, 1992

Mercury Drug Award for Excellence in Math and Science, 1992

Gold Eagle Student of the Year Award, 1992

Champion (Team and Individual), Regional Physics Quiz UPLB-PHYSIKA, 1991

Champion, Philippine Mathematical Olympiad (Region 4), 1990

Trainings

Teacher's Training Program, UP Pahinungod, Kidapawan, South Cotabato Summer 1999

11th International Conference on Education (A.T.IN.E.R.), Athens, Greece 2009 My

Dep-Ed Integrated Scholastic Program (DISP) for teaching effectiveness in Physics and Chemistry teac, 2008 Ap-My

Training for outstanding performance in Education(Physics-HS) batch I TOP-ED) by UNIDEV and GURO, 2008 Ap 29-My 9

Lecturers Learning as One Nation (DVD shoots) Coordinator, Dr. Marivic and Christopher Bernido, 2008 Ap

Special Topics: The Physics of Smelling / Ang Cute na Mundo ng Complexity Science, 23rd and 24th National Physics Congress 2006 & 2007

Catholic Education Association of the Philippines (CEAP) Teacher's Training Program, Guiguinto Bulacan, Philippines 2001

National Children's Science Interactive Workshop, Blu Bianco Suites, Airforce City Clark

Special Economic Zone 2000 O 23-27

Teacher's Training Lectures in Optics, 18th National Physics Congress, Puerto Princesa City, Palawan 2000 O

Teacher's Training Lectures in Mechanics, 17th National Physics Congress, Ateneo De Manila, Quezon City 1999 O

Papers Presented

Monterola, S.L., Roxas, R.M., Monterola, C. (2009 My). Increasing Physics Learning through Optimal Seating Arrangement, Group Composition and Competition, 11th International Conference on Education (A.T.I.N.E.R.) (Athens, Greece).

Monterola, C., Juanico, D.E. (2007). Noise in neural systems: theory and experiments, Stochastic and Quantum Processes in Biological Systems.

Monterola, C., Zapotocky, M. (2005 Jl). The beneficial role of noise and recurrence in Neural Networks, European Conference on Mathematical and Theoretical Biology, Dresden, Germany.

Monterola, C., Zapotocky (2004 Ag). Noise-Enhanced categorization in a recurrently reconnected neural network, 5th Intl Conference on Biological Physics, Gothenburg, Sweden.

Monterola, C., Lim, M., Garcia, J., Saloma, C. (2001 Je). Accurate Forecasting of the Undecided Population in a Public Opinion Poll using Neural Networks, Intl Symposium of Forecasting, Pine Mountain, Atlanta, Georgia.

Publications

- 2013 Legara, E.F., Monterola, C., David, C. Complex Network Tools in Building Expert Systems that Perform Framing Analysis. Expert Systems With Applications/DOI No. 10.1016/j.eswa.2013.01.064, 2013 F 1.
- 2011 Legara, E.F., Monterola, C., Abundo, C. Ranking of predictor variables based on effect size criterion provides an accurate means of automatically classifying opinion column articles. Physica A, 2011, 390(1):110-119.
- 2010 Monterola, C., Crisologo, I., Tugaff, J., Batac, R., Longjas, A. Surface Morphology of Chalkboard Tips Captures the Uniqueness of the User's Hand Strokes. International Journal of Modern Physics, 2010 Mr:535-548.
- 2010 Crisologo, I., Batac, R., Longjas, A., Legara, E.F., Monterola, C. A procedure for generating a random number sequence using seven individuals. International Journal of Modern Physics, 2010 Mr.
- 2010 Legara, E.F., Monterola, C., David, C., Atun, J.M. News Framing of Population and Family Planning Issues via Syntactic Network Analysis. International Journal of Modern Physics, 2010, 21(1):51-65.
- 2010 Monterola, C., Saloma, C. Solving the nonlinear Schrodinger equation with an unsupervised neural network. Opt. Express, 2010, 9:72-84.
- 2009 Monterola, C., Abundo, C., Tugaff, J., Venturina, L.E. Prediction of potential hit song and musical genre using artificial neural networks. International Journal of Modern Physics C, 2009.
- 2009 Batac, R., Pastor, M. Arciaga, M., Bantang, J., Monterola, C. Kinks, Logarithmic Tails, and Super-stability in Bi-disperse Granular Media. Physica A, 2009, 388:3072-3082.

- 2009 Longjas, A., Monterola, C., Saloma, C. Force analysis of jamming with disks of different sizes in a two-dimensional hopper. *Journal of Statistical Mechanics: Theory and Experiment*, 2009.
- 2009 Esleta, G., Monterola, C. Effect of memory and reinforcement on the propagation and morphology of fracture in a two-dimensional mass-spring system. *International Journal of Modern Physics C*, 2009, 20(7):1049-1062.
- 2009 Monterola, C.P., Roxas, R.M., Carreon-Monterola, S.L. Characterizing the Effect of Seating Arrangement on Classroom Learning Using Neural Networks/. *Complexity Journal*, 2009, doi:10.100:26-33.
- 2008 Batac, R., Monterola, C., Pastor, M. Kinks and logarithmic tails as stability markers in binary granular piles. *Proceedings of the 26th National Physics Congress*, 2008.
- 2008 Batac, R., Longjas, A., Esleta, G.A., Monterola, C. Cascading dynamics recovers actual landslide scaling. *Proceedings of the 26th National Physics Congress*, 2008.
- 2008 Legara, E.F., Monterola, C., Tugaff, J. Targeted versus random schemes in family planning information spreading. *Proceedings of the 26th National Physics Congress*, 2008.
- 2008 Legara, E.F., Crisologo, I., Longjas, A., Monterola, C. Dual scaling law in human area perception of concentric circles. *Proceedings of the 26th National Physics Congress*, 2008.
- 2008 Valenzuela, J.F., Monterola, C. Segregation and Aggregation in a Thermally - Driven Bidisperse Suspension. *Proceedings of the 26th National Physics Congress*, 2008.
- 2008 Esleta, G.A., Monterola, C. Effect of memory on the lifetime of elastic materials. *Proceedings of the 26th National Physics Congress*, 2008.
- 2008 Juanico, D.E., Longjas, A., Batac, R., Monterola, C. Avalanche statistics of granular driven slides in a miniature mound. *Geophysical Research Letters*, 2008, 35:L19403.
- 2008 Roxas, R.M., Monterola, C., Monterola, S., Student performance in a competition-driven. *Proceedings of the 26th National Physics Congress*, 2008.
- 2008 Longjas, I.C., Monterola, C., Legara, E.F. A procedure for generating a random number sequence using at least seven individuals. *Proceedings of the 26th National Physics Congress*, 2008.
- 2008 Valenzuela, J.F., Monterola, C. Convective flow-induced short time scale segregation in a dilute bidisperse article suspension. *International Journal of Physics C*, 2008, 19(12).
- 2008 Esleta, G.A., Monterola, C. Structural reinforcement in a spring-block model of stress-induced fracture propagation. *Computer Physics Communications*, 2008, 178:635.
- 2008 Legarda, E.F., Monterola, C., Juanico, D.E., Litong-Palima, M., Saloma, C. Earning potential in multilevel marketing enterprises. *Physics A*, 2008, 387:4889-4895.
- 2008 Monterola, C., Roxas R.M., Carreon-Monterola, S.L. Characterizing the effect of Seating arrangement on classroom learning using neural networks. *Complexity Journal*, 2008, Doi:10.100.
- 2008 Pastor, M., Monterola, C., Dependence of heap stability on the nature of the experimental parameters. *Proceedings of the 26th National Physics Congress*, 2008.
- 2008 Tugaff, J., Crisologo, I., Longjas, A., Monterola, C., Batac, R. Chalk print? Feasibility of predicting the the lecturer based on her/his chalk leftovers. *Proceedings of the 26th*

- National Physics Congress, 2008.
- 2008 Legara, E.F., Tugaff, J., Monterola, C., Presbitero, L.A. Random and targetted course deletions in curriculum network. Proceedings of the 26th National Physics Congress, 2008.
- 2008 Longjas, R., Batac, D.E., Juanico, C., Monterola, C. Observation of self organized critically in a miniature granular mound. Proceedings of the 26th National Physics Congress, 2008.
- 2008 Legara, E.F., Monterola, C., David, C., Atun, J. News framing of population and family planning issues via semantic network analysis. Proceedings of the 26th National Physics Congress, 2008.
- 2008 Pulido, M.T., Palima, M., Monterola, C., Lim, M., Saloma, C. Local majority acceptance model of gossip dynamics. Proceedings of the 26th National Physics Congress, 2008.
- 2007 Juanico, D.E., Monterola, C., Saloma, C. Dissipative self-organized branching in a dynamic population. *Physical Review E/Rapid Communication*, 2007, 75:045105.
- 2007 Juanico, D.E., Monterola, C. Background activity drives criticality of neuronal avalanches. *Journal of Physics A*, 2007, 40:9297-9309.
- 2007 Juanico, D.E., Monterola, C., Saloma, C. Self-organised critical branching in systems that violate conservation laws. *New Journal of Physics*, 2007.
- 2005 Juanico, D.E., Monterola, C., Saloma, C. Cluster formation by allelomimesis in real-world complex adaptive systems. *Physical Review E*, 2005, 71:041905.
- 2005 Monterola, C., Zapotocky, M. Noise-enhanced categorization in a recurrently reconnected neural network. *Physical Review E*, 2005, 71:036134.
- 2004 Quito, M., Monterola, C., Saloma, C. Memory and a priori best strategy in complex adaptive systems. *Complexity*, 2004, 9:41-46.
- 2003 Juanico, D.E., Monterola, C., Saloma, C. Allelomimesis as a generic clustering mechanism for interacting agents. *Physica A*, 2003, 320 C:590-600.
- 2003 Monterola, C., Saloma, C. Solving the nonlinear Schrodinger equation with an unsupervised neural network: Estimation of error in solution. *Optics Communications*, 2003, 222:331-339.
- 2002 Monterola, C., Lim, M., Garcia, J., Saloma, C. Feasibility of a Neural Network as Classifier of Undecided Respondents in a Public Opinion Survey. *International Journal of Public Opinion Research*, 2002, 14:222-228.
- 2002 Monterola, C., Lim, M., Garcia, J., Saloma, C. Accurate forecasting of the undecided population in a public opinion poll. *Journal of Forecasting*, 2002, 21:435-449.
- 2002 Bantang, J., Lim, M., Monterola, C., Saloma, C. Gravity-assisted segregation of granular materials of equal mass and size. *Physical Review E*, 2002, 66:041306.
- 2002 Monterola, C., Saloma, C. Noise-driven manifestation of learning in mature neural networks. *Physical Review Lettes*, 2002, 89:188102.
- 2001 Quito, M., Monterola, C., Saloma, C. Solving N-body problems with neural networks. *Physical Review Letters*, 2001, 86:4741-4744.
- 1998 Monterola, C.P., Saloma, C. Characterizing the dynamics of constrained physical systems with unsupervised neural network. *Physical Review A*, 1998, 57:1247R-1250R.

Name Olga M. Nuneza

Gender Female

Civil Status Single

Organizational Affiliations

Vice Chancellor for Research and Extension, MSU-IIT. Office of the Vice Chancellor for Research and Extension, Andres Bonifacio Ave., Tibanga, Iligan City

Education

Ph.D., University of the Philippines at Los Baños, Los Baños, Laguna 1992

Fields of Specialization

Agriculture and Forestry

Animal Physiology

Association Membership

Member, National Research Council of the Philippines (NRCP)

Honors / Awards

2nd Best Poster Bat Fauna of Mt. Tago Range, Regional Symposium, NOMCARRD, Philltown Hotel, Cagayan de Oro City 2008 Ag 7-8

2nd Best Poster Bat Fauna of Mt. Tago Range, MSU-Iligan Institute of Technology 2008 JI

3rd Best Paper Anuran Species Diversity, Distribution and Conservation Status in Mt. Sabilikan, Diwa, NOMCARRD 2008 Ag 7-8

3rd Best Paper Distribution of Vertebrate Fauna in Mt. Diwata, Agusan del Sur, In-House Review MSU-Iligan Institute of Technology, Iligan City 2008 JI

Best Poster, Biodiversity Assessment and Conservation of Critical Resources in Mt Diwata Range, Agusa, National Conference on Research in Higher Education 2009 N 13

2nd Best Poster, Herpetofauna in Arakan Valley, Borth Cotabato and Uper Pulang Bukidnon, 7th Annual In-house Review of R&D projects, MSU-IIT 2009 Je 24

3rd Best Paper, Diet Composition and Sndoparasites of Snakes in Arakan Valley, North Cotabato and Up, 7th Annual In-house Review of R&D projects, MSU-IIT 2009 Je 24

1st Best Paper, Variations of Anura Acoustics through Call Surveys in Selected Forest of Mindanao II, 7th Annual In-house Review of R&D projects, MSU-IIT 2009 Je 24

Trainings

Second Mediterranean Congress of Herpetology, Marrakech, Morocco 2011 My

International conference on biodiversity and climate change, PICC, Manila 2011 F 1-3

ATBC Asia-Pacific Chapter Annual Meeting. "Assessing and Restoring Biodiversity in a Human Dominated, Imperial Mae Ping Hotel, Chiang Mai, Thailand 2009 F 12-15

Regional Symposium, NOMCARRD, Philltown Hotel, Cagayan de Oro City 2008 Ag 7-8

International Forestry and Environment Symposium, Nugegoda, Sri Lanka

Researches

Completed

Herpetofauna Diversity in Arakan Valley and Upper Pulangi, Bukidnon

Taxonomic and Ecological Study on the Herpetofauna, Chiroptera, and Avifauna in Mindanao, Philippines

Faunal Diversity and Conservation of Critical Resources in Mt. Diwata Range, Agusan del Sur

Biodiversity Assessment and Conservation of Critical Resources in Mt. Diwata Range, Agusan del Sur

Ongoing

Taxonomic and Ecological Study on the Herpetofauna and Chiroptera in Karst Limestone Habitats in Selected Research Areas in Mindanao

Cave Biodiversity of Siargao Island, Philippines

Papers Presented

Nuñez, O.M., Almeria, M. (2011 O 27-28). Diversity and Endemism of Amphibians in Agusan Marsh, Philippines, International Forestry and Environment Symposium, Nugegoda, Sri Lanka.

Nuneza, O.M., Ponce, A. (2011 My 23-27). Species Richness and Endemism of Cave Herpetofauna in Mindanao, Philippines, Second Mediterranean Congress of Herpetology, Marrakech, Morocco..

Nuneza, O.M., Ponce, A.G. (2011 Mr 12-15). Endemic and threatened herpetofauna in Arakan Valley, Philippines, Association for Tropical Biology and Conservation (ATBC) International Conference held in Bangkok, Thailand.

Nuneza, O.M. (2011 F 1-3). Vertebrate fauna in selected caves in Mindanao, Philippines, International conference on biodiversity and climate change, PICC. Manila.

Nuneza, O.M., Fabricante, K. (2011 F 1-3). Herpetofaunal diversity and endemism in Mt. Diwata range, Mindanao, Philippines, International conference on biodiversity and climate change, PICC, Manila.

Nuñez, O.M. (2009. N 13). Biodiversity Assessment and Conservation of Critical Resources in Mt. Diwata Range, Agusan del Sur, Poster presented in the National Conference on Research in Higher Education. Royal Mandaya Hotel, Davao City.

Nuñez, O.M. (2009 N 23). Critical Resources in Mt. Diwata Range, Agusan del Sur: Opportunities towards integrated biodiversity management and conservation, 7th General Membership assembly of the NRCP Mindanao Regional Cluster: Science Beyond Science, Bringing Social Dimension to basic Research, NORMISIST, Butuan City.

Nuñez, O.M. (2009 Je 24). Herpetofauna in Arakan Valley, North Cotabato and Upper Pulangi, Bukidnon, 7th Annual In-house Review of R&D Projects. MSU-Iligan Institute of Technology.

Nuñez, O.M. (2009 Je 24). Diet Composition and Endoparasites of Anurans in Arakan Valley North Cotabato and Upper Pulangi, Bukidnon, 7th Annual In-house Review of R&D Projects. MSU-Iligan Institute of Technology.

Nuñez, O.M. (2009 Je 24). Diet Composition and Endoparasites of Snakes in Arakan Valley, North Cotabato and Upper Pulangi, Bukidnon, 7th Annual In-house Review of R&D Projects. MSU-Iligan Institute of Technology.

Nuñez, O.M. (2009 Je 24). Variations of Anuran Acoustics Through Call Survey on

Selected Forests of Mindanao Island, Philippines, 7th Annual In-house Review of R&D Projects. MSU Iligan Institute of Technology.

Nuneza, O.M. (2009 F 12-15). Vertebrate Faunal Diversity and Endemism in Mt. Diwata Range, Agusan del Sur, Philippines, ATBC Asia-Pacific Chapter Annual Meeting. "Assessing and Restoring Biodiversity in a Human Dominated Landscape". Imperial Mae Ping Hotel, Chiang Mai, Thailand.

Nuñeza, O.M. (2008 JI). Distribution of vertebrate fauna in Mt Diwata, Agusan del Sur, In House Review, MSU-Iligan Institute of Technology, Iligan City.

Nuñeza, O.M. (2008 Je). Diversity and endemism of vertebrate fauna in Mt. Malindang, Mindanao, Philippines, Association for Tropical Biology and Conservation (ATBC), Paramaribo, Suriname, South America.

Nuñeza, O.M. (2008 Ap). Anuran species diversity, distribution and conservation status in Mt. Sambilikan, Diwata Range, Agusan del Sur, Wildlife Conservation Society of the Philippines (WCSP), Leyte State University, Leyte.

Nuneza, O.M. (2008 Ag 7-8). Bat fauna of Mt. Tago Range, Regional Symposium, NOMCARRD, Philtown Hotel, Cagayan de Oro City.

Nuñez, O.M. (). Wildlife Trading in Selected Cities in Visayas, Philippines, .

Katrina Columnas Martinez and Olga M. Nuñeza (). Ecology of the Vulnerable Mindanao Endemic Blue-Capped Kingfisher, *Actenoides hombroni*, .

Caro, R.B., Nuñez, O.M. (). Distribution, Diet and Endoparasites of Avifauna in Mt. Sambilikan, Diwata Range, Agusan del Sur, Philippines Rowena B. Caro, Olga M. Nuñeza, .

Publications

- 2012 Nuneza, O.M., Fabricante, K., Alicante, A., Sucaldito, M., Ponce, A. The Herpetofauna of Mounts, Sambilikan, Ararat and Berseba of the Diwata Range, Agusan del Sur, Philippines. *Asia Life Sciences*, 2012, 21(1):1-14.
- 2012 Casim, L., Nuneza, O.M., Teves, F. Genetic Variability within the Population of the Vulnerable Mindanao Endemic Blue-Capped Kingfisher (*Actenoides hombroni*) Using Polymorphic DNA Markers. *Asian Journal of Biodiversity*, 2012, 3:180-197.
- 2012 Fabricante, K., Nuñeza, O.M. Diet and endoparasites of *Rana grandocula* (Amphibia, Ranidae) and *Limnonectes magnus* (Amphibia, Dicroglossidae) in Mt. Sambilikan, Diwata Range, Agusan del Sur, Philippines.. *Advances in Environmental Sciences. International Journal of the Bioflux Society*, 2012, 4(3):113-121.
- 2012 Cagod, B., Nuñeza, O.M. Avian species diversity in oil palm plantations of Agusan del Sur and Compostela Valley, Philippines. *Advances in Environmental Sciences-International Journal of the Bioflux Society*//<http://www.aes.bioflux.com.ro>, 2012, 4(2):85-105.
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- 2012 Tampon, G., Nuneza, O., Diesmos, A. Bioacoustic analysis of advertisement calls of two ground frogs of the genus *Platymantis* in Mount Magdiwata, San Francisco, Agusan del Sur, Philippines. *International Journal of Available online at*

<http://www.academicjournals.org/IJBC>. Biodiversity and Conservation., 2012.

- 2012 Casim, L., Nuneza, O.M., Teves, F. Genetic Variability within the Population of the Vulnerable Mindanao Endemic Blue-Capped Kingfisher (*Actenoides hombroni*) Using Polymorphic DNA Markers. *Asian Journal of Biodiversity*, 2012, 3:180-197.
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- 2012 NuÑeza, O. M. Photographic guide to Amphibians, Reptiles, Birds, and Bats of the Caves in Mindanao, Philippines. MSU-Iligan Institute of Technology. Iligan City, Philippines, 2012.
- 2012 NuÑeza, O. M. Photographic Guide to Amphibians and Reptiles of Mindanao, Philippines.. MSU-Iligan Institute of Technology. Iligan City, Philippines, 2012.
- 2012 Zuñiga, P., Ciobanu, F., NuÑeza, O., Stark, K. The use of direct transesterification methods and autoclaving for determining fatty acid yields for dried Philippine thraustochytrids, a potential source of docosahexanoic acid. *Journal of Functional Foods/ www.sciencedirect.com. Elsevier.*, 2012, 4(4):915-923..
- 2011 Sanguila, M., Siler, C., Diesmos, A., NuÑeza, O., Brown, R. Phylogeography, geographic structure, genetic variation, and potential species boundaries in Philippine slender toads. *Molecular Phylogenetics and Evolution. Elsevier. Available online at www.elsevier.com/locate/ympev*, 2011.
- 2010 Nuneza, O.M., Ates, F., Alicante, A. Distribution of endemic and threatened herpetofauna in Mt. Malindang, Philippines. *Topics in Biodiversity and Conservation. Tropical Islands Biodiversity Crisis: The Indo-West Pacific*, David Lane, ed. Springer, 2010:191-206.
- 2009 Nuñeza, O.M. Distribution of Endemic and Threatened Herpetofauna in Mt. Malindang, Mindanao, Philippines. *Biodiversity and Conservation. Springer Netherlands. Published online*, 2009 N.
- 2009 Nuneza, O.M. Distribution of Endemic and Threatened Herpetofauna in Mt. Malindang, Mindanao, Philippines. *Biodiversity and Conservation, Springer, Netherlands Published online*, 2009.

Name **Thelma Romero-Paris**
Place of Birth Los Baños, Laguna
Date of Birth Sepember 12, 1948
Gender Female
Civil Status Married
Home Address Los Baños, Laguna

Organizational Affiliations

Senior Scientist (Socio-economist-Gender Specialist), Social Sciences Division, International Rice Research Institute (IRRI), DAPO 7777, Metro Manila Philippines

Education

Ph.D. in Social Ecology, University of Western Sydney, Hawkesbury, New South Wales, Burke St. Richmond, 2753, Australia 2001

M.S. Agricultural Economics, University of the Philippine, Los Banos College, Laguna, Philippines 1981

Bachelor of Science, Major in Agricultural Economics, University of the Philippine Los Baños, Laguna, Philippines 1968

Fields of Specialization

Social Ecology

Gender mainstreaming, socio-economics and gender analysis in rice based farming system research, participatory research

Labor migration and gender analysis, partnerships

Employment

Senior Scientist(Socio-economist-Gender Specialist), Social Sciences Division, IRRI, DAPO 7777 Metro Manila, Philippines, 2004 Ja-2009 D-

Social Scientist - Gender Specialist, Social Sciences Division, IRRI, DAPO 7777, 2001 Ja-2003 D-

Affiliate Scientist -Gender Specialist (Internationally Recruited Staff), Social Sciences Division, IRRI, DAPO 7777, 1997 My-2000 D-

Research Assistant to Senior Associate Scientist, IRRI, Los Banos, Laguna, Philippines, 1976 Ap-1996 Ap-

Association Membership

Member, Crop Science Society of the Philippines

Honors / Awards

Gawad Gintong Ani Award (Golden Harvest), IRRI 1996 Mr

CGIAR Excellence in Science Award:Outstanding Local Professional, during the 25th CGIAR Anniversary and International Centers' Week, Washington DC. 1996 O 28

Social Achievement Award, Filipino Scientists Association of IRRI 1999 Mr 4

Plaque of Appreciation for 25 Years of Service in IRRI, IRRI 2000 D 17

Outstanding Filipino Women Research Managers and Scientists in Agriculture and Natural Resources, PCARRD-DOST 2002 Mr 13

Outstanding Filipino Women in Rice Research, Channel 13, Philippines Local TV station, International Year of Rice/ 18th FCSSP Scientific Conference, Cagayan de Oro City 2005

Honorary fellow Award, Crop Science Society of the Philippines 2005 My 5

Cited among 11 International Women in the Publication, Successful Women, Successful Science in the CGIAR Gender and Diversity Working Paper 2008

Trainings

IFAD Annual Progress Review and Planning Meeting for Increasing the Productivity of Flood-prone Rice, Pranchin Buri, Thailand Ja 21-22

2nd International Forum on Water and Food/The CGIAR Challenge Program on Water and Food, Addis Ababa, Etiopia, Colombo 2008 N 10-14

2nd International Forum on Water and Food, Addis Ababa, Etiopia /The CGIAR Challenge Program on Water, Colombo 2008 N 10-14

Symp. on the Changing Role of the Applied Social Sciences in Agriculture and Community Development, SEARCA Auditorium, Organized by the College of Public Affairs, UPLB 2008 Ja 28 -30

4th World Congress on Conservation Agriculture, NSAC complex, New Delhi, India 2008 F

FFTC-RDA International Seminar on Enhancement of Women Farmers' Role in the Development of Rural Asia, Suwon, Korea 2007

Women's roles and needs in changing rural Asia with emphasis on rice-based technologies 2007 FFTC-R, Suwon, Korea 2007

2nd Review and Planning Meeting of CPWF PM#7, Karnal, India 2006 Ap 24-27

International Conference on Impact of labor out-migration on rice household economy with emphasis on, IRRI, Los Banos, Laguna, Philippines 2005 Ap 26-27

International Rice Congress, Beijing, China 2002 S 16-22

International Symposium on Participatory Plant Breeding and Participatory Plant Genetic Resource Enh, Pokhara, Nepal, Cali, Columbia 2001 My 1-5

International Workshop on The Incidence and determinants of male migration in rice production enviro, 2001 Mr 12-13

International Conference on the Impact of Rice Research, Bangkok, Thailand, Thailand Development Rese, Bangkok, Thailand and International Rice Research Institute, Manila, Philippines 1998 Je 3-5

International Workshop on Gender Concerns in Rice-Farming, Chiang, Mai, Thailand 1992 O 20 - 25

Researches

Completed

Providing a framework for gender impact assessment of CIAP's technologies and identifying strategies to address gender issues in CIAP's research and training activities conducted in Cambodia

Incidence, patterns and determinants of labor out-migration: results of village-level

analysis of Northeast Thailand

Papers Presented

Paris, T.R., et. al. (Ja 21-22). Impacts of Male Migration on Women's Empowerment in Bangladesh, IFAD Annual Progress Review and Planning Meeting for Increasing the Productivity of Flood-prone Ricelands of South and Southeast Asia, Pranchin Buri, Thailand.

Paris, T. (2011 Ji 13-14). Increasing Rice Productivity in Flash Flood-Prone Areas Vulnerable to Effects of Climate Change, 33rd NAST Annual Scientific Meeting.

Paris, T. (2009 Je). Impact of rice technology with emphasis on women, Rice Convening Meeting Bill and Melinda Gates Foundation, Seattle, USA.

Paris, T., et. al. (2008 O 7-8). Addressing the rice crisis through development and dissemination of improved rice technologies, Asian Development Bank of the Philippines, Manila.

Paris, T.R., et.al. (2008 N 10-14). Germplasm and management strategies for enhancing productivity of salt-affected areas, 2nd International Forum on Water and Food, Addis Ababa, Ethiopia /The CGIAR Challenge Program on Water and Food, Colombo.

Paris, T. (2008 Ja 28 -30). Addressing gender concerns in rice research and technology development: Challenges and opportunities to make a difference, Symposium on the Changing Role of the Applied Social Sciences in Agriculture and Community Development. SEARCA Auditorium. Organized by the College of Public Affairs, UPLB, Laguna, Philippines.

Paris, T.R. (2008 F 6-9). Brokering multi-stakeholder partnerships for ensuring long-term success of conservation technologies, 4th World Congress on Conservation Agriculture, NSAC complex, New Delhi, India.

Paris, T., et. al. (2008 D 2-4). Assessment of impact of technologies for salt-affected areas in eastern Uttar Pradesh, CPWF Project 7. Final Meeting and Synthesis Workshop, IRRI, Philippines.

Paris, T., et. al. (2008 D 2-4). Impact of impact of technologies for salt-affected areas in Unnao district, Eastern Uttar Pradesh, CPWF Project 7. Final Meeting and Synthesis Workshop, IRRI, Philippines.

Paris, T., et. al. (2008 D 2-4). Synthesis of findings of the socio-economic component of the CPWF Project 7 Development of Technologies to Harness the Productivity Potential of Salt-Affected Areas of the Indo Gangetic, Mekong, and Nile River Basins, Final Meeting and Synthesis Workshop, Umali Hall, IRRI.

Paris, T., et. al. (2008 D 2-4). Case studies on the impact assessment of introduction of saline tolerant rice varieties in the salinity problems in Cau Ngang, Tra Vinh province, Vietnam, CPWF Project 7. Final Meeting and Synthesis Workshop, IRRI, Philippines.

Paris, T., et. al. (2008 Ap 24). Effects of rising rice price on women, CGIAR Secretariat for her presentation in a lunch forum.

Paris, T.R., et. al. (2008 Ag 28-30). Impact of migration on roles of women and appropriate technologies in Southeast Asian Farming Systems, Asian Institute of Management.

Paris, T.R., et. al. (2008 Ag 28-30). Income diversification through rural to urban migration in Vietnam, 6th Asian Society of Agricultural Economics (ASAE) Asian Institute of Management.

Paris, T., et. al. (2006 Ap 26-27). Farming practices, knowledge and perceptions on the use of organic fertilizer in the Philippines, International Conference Hall, RDA Korea.

Paris, T.R., et. al. (2005 My 9-11). The role of farmer participation on scaling up of genetic diversity, Harrar Hall, IRRI, Los Banos, Laguna, Philippines.

Paris, T.R. (2005 Je 23). Asian Women in Agricultural Research and Technology Development: Issues and Challenges, Ewah Womens University, Seoul, Korea.

Paris, T.R., et. al. (2005 Ap 26-27). Prevalence and patterns of labor out-migration and their impacts on rice production, livelihood and on gender roles: a synthesis of important findings in eastern India, IRRI, Los Banos, Laguna, Philippines.

Paris, T.R., et. al. (2005 Ap 26-27). Impact of labor out-migration on rice household economy and on gender roles: a case in Eastern Uttar Pradesh, India, International Conference on Impact of labor out-migration on rice household economy with emphasis on gender issues, at IRRI, Los Banos, Laguna, Philippines.

Paris, T.R., et. al. (2005 Ap 26-27). Impact of labor out-migration on rice household economy and on gender roles: a case in Bihar, India, International Conference on Impact of Labor out-migration on rice household economy with emphasis on gender issues at IRRI, Los Banos, Laguna, Philippines.

Paris, T.R., et. al. (2005 Ap 26-27). Impact of labor out-migration on rice household economy and on gender roles: a case in Central Java, Indonesia, International Conference on Impact of labor out-migration on rice household economy with emphasis on gender issues, IRRI, Los Banos, Laguna, Philippines.

Paris, T.R., et. al. (2005 Ap 26-27). Impact of labor out-migration on rice household economy and on gender roles: a case in Northern Philippines, International conference on Impact of labor out-migration on rice household economy with emphasis on gender issues, IRRI, Los Banos, Laguna, Philippines.

Paris, T.R., et. al. (2005 Ap 25-27). Impact of labor out-migration on rice household economy and on gender roles: a case in West Bengal, India, IRRI, Los Banos, Laguna, Philippines.

Paris, T.R., et. al. (2004 N 4-7). IRRI's Approach to Participatory Research for Development: Advances and Limitations, World Rice Research Conference, Tsukuba, Japan.

Paris, T.R., et. al. (2004 Mr19). Accelerating the adoption of rice varieties suitable for rainfed rice environments through farmer participatory research. IRRI's experience and lessons learned, International Symposium on Agronomic research for local people-oriented technology development in rainfed rice fields in Thailand. Field Production Science Center and Thai Research Exchange Group and Graduate School of Agricultural and Life Sciences, The University of Tokyo.

Paris, T.R., et. al. (2004 Ap 22). Changing women's roles in homestead management: mainstreaming women in rural development, Policy Dialogue on Women's Contribution to Rural Economic Activities: Making the Invisible Visible, BRAC Centre Inn, Dhaka, Bangladesh.

Paris, T.R., et. al. (2003 Mr 8-9). Gender considerations in the selection of technologies, National Academy of Agricultural Sciences (NAAS) NASC Complex, Pusa, New Delhi.

Paris, T.R., et. al. (2003 Ja 10). Women's roles in the homesteads and opportunities for poverty alleviation in Bangladesh, Social Sciences, Division, International Rice Research Institute, Los Banos, Laguna, Philippines.

Paris, T.R., et. al. (2002 S 16-22). The importance of social analysis in farmer participatory plant breeding: a case in the rainfed lowland rice environments in eastern Uttar Pradesh, India, International Rice Congress held in Beijing, China.

Paris, T.R., et. al. (2002 N). Institutionalizing participatory plant breeding within the National Research Systems: Issues and Future Challenge, Department of Extension, Indian Council of Agricultural Research (ICAR), New Delhi, India.

Paris, T. R., Singh, A., Luis, J. (2001 My 1-5). Listening to male and female farmers in rice varietal selection: a case in eastern India. In CIAT 2000. An Exchange of Experiences from South and Southeast Asia, International Symposium on Participatory Plant Breeding and Participatory Plant Genetic Resource Enhancement, Pokhara, Nepal, . Cali, Columbia: Centro Internacional de Agricultura.

Paris, T.R., et. al. (2001 Mr 12-13). Summary report of the international workshop on The Incidence and determinants of male migration in rice production environments in Southeast and South Asia, India International Centre.

Paris, T.R., et. al. (2001 Mr 12-13). The incidence, determinants and consequences of male labor outmigration on rice efficiency and gender roles: a case study in eastern Uttar Pradesh, International Workshop on The Incidence and determinants of male migration in rice production environments in Southeast and South Asia.

Paris, T.R., et. al. (2001 Mr 12-13). Labor movement from rice farming and its implications on rural women: case in Bac Lieu province, South Vietnam, International Workshop on The Incidence and determinants of male migration in rice production environments in Southeast and South Asia Organized by IRRI) and the National Center for Research Center for Women in Agriculture (NRCWA), Indian Council of Agricultural Research (ICAR), India.

Paris, T.R., et. al. (2001 Mr 12-13). The nature and extent of male labor outmigration and their effects on rice farming and gender implications: a case study in Jharkhand plateau, International workshop on The Incidence and Determinants of Male Migration in Rice Production Environments in Southeast and South Asia.

Paris, T.R., et. al. (2001 Mr 12-13). The incidence, determinants and consequences of male labor outmigration in rice production environments: a case study in rural Bihar, International workshop on The Incidence and determinants of male migration in rice production environments in Southeast and SouthAsia.

Paris, T.R., et. al. (2001 Mr 12-13). Movement of male labor out of rice farming and consequences on women: a case study in West Bengal, India, International workshop on The Incidence and Determinants of Male Migration in Rice Production Environments in Southeast and South Asia.

Paris, T.R., et. al. (2001 Mr 12-13). The effects of male labor outmigration on women farmers: a case study in Northeast Thailand, International workshop on the incidence and determinants of male migration in rice production environments in Southeast and South Asia.

Paris, T.R., et. al. (2000 N 27 - D 1). Beliefs and management practices of weedy rices: a comparison among male and female rice farmers in the Mekong Delta, South Vietnam, International Conference on ?Raising Productivity Level Implications to Pest Management?, Hangzhou, PR China.

Paris, T. R., Singh, A., Luis, J. (2000 My 1-5). Listening to male and female farmers in rice varietal selection: a case in eastern India, International Symposium on Participatory Plant Breeding and Participatory Plant Genetic Resource Enhancement, Pokhara, Nepal.

Sahu, R.K., Sahu, V.N., Sharma., M.L. Paris, T.R., et.al. (2000 My 1-5). Understanding farmers selection criteria for rice varieties: a case in Madhya Pradesh, eastern India. In CIAT 2001. An Exchange of Experiences form South and Southeast Asia, International Symposium on Participatory Plant Breeding and Participatory Plant Genetic Resource Enhancement, Pokhara, Nepal,Cali, Columbia: Centro Internacional de Agriculatural.

Paris, T.R., et.al. (2000 My 1-5). Understanding farmers? selection criteria for rice varieties: a case in Madhya Pradesh, eastern India, International Symposium on Participatory Plant Breeding and Participatory Plant Genetic Resource Enhancement, Pokhara, Nepal,Cali, Columbia: Centro Internacional de Agriculatural.

Paris, T.R., et. al. (1999 My 15). Impact of production and post harvest technologies on glutinous rice in rainfed lowland villages in Sta.Barbara, Pangasinan, Philippines, Federation of Crop Science Society of the Philippines (FCSSP) in South Cotabato, Philippines.

Paris, T.R., Singh, A., Hossain, M., Luis, J. (1999). Using gender analysis in characterizing and understanding rainfed lowland rice environments, International Workshop on Characterizing and Understanding Rainfed Environments. Bali, Indonesia. Los Banos (Philippines): International Rice Research Institute.

Paris, T.R. (1997 S). Gender issues in rice pest management in Asia, Review and Planning Workshop on Rice Pest Management Research held in Hangzhou, China.

Paris, T.R. (1996 S 26). IRRI-ICAR Collaborative research on gender roles in rice-based farming systems in Eastern India, IRRI-INDIA Meeting, New Delhi, India.

Paris, T. R. (1996). Do agricultural technologies help or hurt poor women? In Competition and conflict in Asian agricultural resource management: Issues, Options, and Analytical Paradigms, Internatiional Rice Research Institute, Los Banos, Laguna, Philippines.

Paris, T., et. al. (1995 F 28 - Mr 5). Social consequences of stressed environments, Lucknow, India.

Paris, T.R., et. al. (1995 F 17-18). Agricultural intensification in Asia: The gender and human resource dimension, University of Toronto-York University. Joint Centre for Asian Pacific Studies, Toronto, Canada and the Vietnamese National Assembly.

Paris, T., et. al. (1994 O 17). Water scarcity and its implications on rural women, FAO World Food Day, Water for Life, Bangkok Thailand.

Paris, T., et. al. (1994 N 7-11). Overview of the women in rice farming systems program, SEARCA, Los Banos, Laguna, Philippines.

Paris, T., et. al. (1994 N 7 - 11). Overview of the women in rice farming systems program. In Proceedings of the Regional Workshop on Gender Issues in Teaching and Research Programs, SEARCA, Los Banos, Laguna, Philippines.

Paris, T., et. al. (1994 My 4-7). Gender roles in rice farming systems in the Mekong River Delta: An exploratory study, Hanoi, Vietnam.

Paris, T., et. al. (1994 My 4-7). Gender roles in rice farming systems in the Mekong River Delta: An exploratory study. In Vietnam and IRRI: A Partnership in Rice Research, Hanoi, Vietnam.

Paris, T.R., et. al. (1994 My 16-20). Adding value in rice production: a study on utilization of rice biomass and by-products in rainfed lowlands in Central Luzon, Federation of Crop Science Societies of the Philippines (FCSSP) 10th Annual Scientific Conference, Puerto Princesa, Palawan.

Paris, T., et. al. (1994 My 10-13). Enhancing Incomes of Rural Women through Suitably Engineered Systems, International Workshop held at IRRI, Los Banos, Laguna.

Paris, T., et. al. (1994). Knowledge, attitude and practice of seed management technologies in rice farming in Central Luzon, Philippine Journal of Crop Science.

Paris, T. (1993 S 27 - O 1). Gender analysis in crop and animal research. In Crop-animal interaction. IRRI Discussion Paper Series No. 6, Khon Kaen, Thailand.

Paris, T.R., et. al. (1993 Jl 4-8). Technology Bias in Rice Post Harvest Systems in the Philippines: Evaluating the Needs of Women and Children, ASEAN Grain Postharvest Programme, Bangkok, Thailand.

Paris, T.R., et. al. (1993 Ja 25-29). Gender issues in rice based sustainable agriculture and natural resource management, Central Mindanao University, Philippines.

Paris, T.R., et. al. (1993 Ag 30 - S 3). Women and technology development: Lessons and Future Research Directions, Asian Rice Farming Systems Network Working Group Suweon, Korea.

Paris, T.R., et. al. (1992 O 5-9). International and local interdisciplinary work: A case study which has benefitted from interdisciplinary work, International Workshop in Interdisciplinary Teamwork in Sweet Potato Development Projects, Iba, Zambales, Philippines, Sponsored by Users Perspective Agricultural Rural Development.

Paris, T.R., et. al. (1992 O 20-25). Women and Technology Development in Asian Rice Farming Systems, International Workshop on Gender Concerns in Rice Farming, Chiang Mai, Thailand.

Paris, T.R., et. al. (1992 O 20 - 25). Integrating concerns for gender roles in farming systems research: A case in partially irrigated and rainfed farms in Central Luzon, Philippines, International Workshop on Gender Concerns in Rice-Farming, Chiang, Mai, Thailand.

Paris, T.R., et. al. (1992 O 19-25). An assessment of the economic contributions of women in rice-farming in Cambodia, International Workshop on Gender Concerns in Rice Farming held in Chiang Mai.

Paris, T.R. (1992 N 25). Socioeconomics issues concerning women in animal production. In Animal Production and Rural Development: Proceedings of the Sixth AAAP Animal Science Congress Vol. I. Edited by Pakapun Bunyavejchewin, Sattarat Sangdid, Kanokwan Hangsanet, Animal Husbandry Association of Thailand, c/o Department of Animal Science, Kasetsart University, Bangkok 10900, Thailand.

Paris, T.R., et. al. (1991 Ap 6-9). Gender Issues in Rainfed Rice-Based Farming Systems, International Conference on Extension Strategy for Minimizing Risk on Rainfed Agriculture.

Paris, T.R., et. al. (1990 O 14-17). Glutinous Rice and Processing Equipment, Sta. Barbara, Pangasinan, Philippines, Panel Session on ?Post-Harvest Processes: Gender Issue: Farmer Participation and Evaluation in the 10th Annual AFRSE Symposium, Michigan State University.

Paris, T.R., et. al. (1990 O). Institutionalizing Gender Concerns in Asian Rice Farming Systems Research Projects, Michigan State University, Lansing, USA.

Paris, T.R., et. al. (1990 Je 6). Impact of Wet Seeding on Transplanting Labor in Central Luzon, Department Seminar, at the Social Science Division.

Paris, T.R., et. al. (1990 Je 6). The Role of Women and Its Bearing on Conservation in Farming Systems, ASOCON Training Course. Regional Action Learning Program on the Development of Conservation Farming Systems, La Union, Philippines.

Paris, T.R., et. al. (1990 Je 4). Report on Workshop Gender Analysis in Rice Farming Systems Research: Does It Make a Difference, ..

Paris, T.R., Luis, J. (1990 D 5-6). Gender Analysis: How It Made A Difference in a Farming Systems Research Project in Sta. Barbara, Pangasinan, Philippines, Regional Conference on Gender Issues in Agriculture.

Paris, T.R., et. al. (1990 Ap 4-8). Research Methodology for Incorporating A Gender Perspective in Farming Systems Research and Development, WIRFS Review, IRRI.

Paris, T.R., et. al. (1989 O 2-7). Women In Rice Farming Systems Program, Progress Report, Asian Rice Farming Systems Working Group Bogor, Indonesia.

Paris, T.R. (1989 JI 4-8). A Methodology in Integrating Women?s Concerns into Grain Post Harvest Research and Development Projects, ASEAN Grain Postharvest Programme, Bangkok, Thailand.

Paris, T.R., et. al. (1989 Je 13-14). The Pangasinan Experience, Department of Agriculture and the PCARRD.

Paris, T.R., et. al. (1988 N30- D 4). Women in Rice Farming Systems: Synthesizing Research and Development, International Conference on Appropriate Agricultural Technologies for Farm Women, New Delhi, India.

Paris, T.R., et. al. (1988 N 7-11). Diversifying Income Opportunities for Rural Women, International Rice Research Conference, IRRI.

Paris, T.R., et. al. (1988 N 30- D 4). A Methodology for Integrating Women?s Concerns into Rice-Based Farming Systems Research: An IRRI Case Study, International Conference on Appropriate Agricultural Technologies for Farm Women, New Delhi.

Paris, T.R., et. al. (1988 N 11-15). Summary Report on Women in Rice Farming Systems Network, International Rice Research Institute.

Paris, T.R., et. al. (1988). IRRI?s Efforts in Integrating Women in Agriculture into Research Programs, Birsa Agricultural University, Ranchi, Bihar.

Paris, T.R., et. al. (1987 S 21-25). Integrating Women?s Concerns in Rice Farming Systems Research, International Rice Research Conference, China.

Paris, T.R., et. al. (1987 O). Methodology Used in Obtaining Data on Gender or Intrahousehold Issues in a Farming Systems Project, Farming Systems Research/Extension Symposium in Arkansas, USA.

Paris, T.R. (1987 Mr 26). Women in Rice Farming Systems: A Preliminary Report of An Action Research Program in Sta. Barbara, Pangasinan in: Filipino Women in Rice Farming Systems, IRRI, CEC, Los Baños, Laguna.

Paris, T.R., et. al. (1987 Mr 23-25). Differential Impact of Technical Change on Nutrition, Workshop on the Differential Impact of Technical Change Between Favorable and Unfavorable Areas.

Paris, T.R., et. al. (1987 Ap 15-17). Developing Appropriate Technologies for Women in a

Rice-Based Farming Systems Project, Los Baños, Philippines.

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Paris, T.R., et. al. (1985 S). Human Nutrition in Relation to Agricultural Production, Farming Systems Research Socio-Economic Workshop, Los Baños, Philippines: IRRI.

Paris, T.R. (1983 S 26 - O 1). Economics of Small vs Large Scale Soybean Production in: Soybean in Tropical and Subtropical Cropping Systems, Proceedings of A Symposium, Tsukuba, Japan.

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Paris, T.R., et. al. (). Addressing gender issues in rice-based livelihood systems: IRRI's experience, lessons learned and challenges for the future, 125th Agricultural Policy Forum on Gender Issues in the Agricultural and Fisheries Sector held at the NEDA, Makati Building, Amorsolo St, Makati, Philippines.

Publications

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- 2009 Paris, T. Impact of rice technology with emphasis on women. Rice Convening Meeting Bill and Melinda Gates Foundation, Seattle, USA, 2009 Je.
- 2008 Paris, T., Rubzen Rola, F., Luis, J. Impact of migration and off-farm employment on roles of women and appropriate technologies in Asian and mixed farming systems. Australian Center for International Agriculture (ACIAR), Canberra, Australia, 2008.
- 2008 Chi, T., Paris, T., Luis, J. Impacts of labor outmigration to livelihoods of rice farming households in Vietnam. Institute of Family and Gender Studies, 2008, 18(5):70-87.
- 2008 Serraj, R., Paris, T., Haefele, S., Anitha, R., Atlin, G., Verulkar, S., Dongre, P., Singh, O.N., Swain, P., Bose, L., Sinha, P.K., Mandal, N.P., Dwivedi, J.L., Hittalmani, S., Chandrababu, R., Robin, S., Singh, B.N., Mahto, R.N., Shashidhar, H.E., Developing and disseminating resilient and productive rice varieties for drought prone environments in India. Extended Abstract, Generation Challenge program, 2008:189-190.
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Piggin, C., Bhuiyan, S., Paris, T.R., et.al. The IRRI Rainfed Lowland Rice Research Program: Directions and Achievements. IRRI Discussion Paper Series No. 26, International Rice Research Institute, Los Banos, Laguna, Philippines, .

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Paris, T., et. al. Out-migration, rice household economy and women left behind in Vietnam. Technology and Development, Sage Publications, India, .

Paris, T., et. al. Characterizing and understanding the socio-economic conditions of farming households in rainfed rice environments. CURE, .

Paris, T.R. Addressing gender concerns in rice research technology development: opportunities to improve rural livelihood/IRRI's gender strategy plan for 2001-2003. Social Sciences Division, International Rice Research Institute, DAPO 7777 Metro Manila, Philippines, .

Name **Hernando S. Salapare III**
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Organizational Affiliations

Instructor I, National Institute of Physics, University of the Philippines, Diliman, Quezon City 1101

Education

Master of Science in Physics, University of the Philippines Diliman, Quezon City 2010 Ap
Ph.D. in Physics, University of the Philippines Diliman, Quezon City 2010
B.S. Applied Physics, University of the Philippines, Diliman, Quezon City 2007

Fields of Specialization

Physics
Plasma Physics
Instrumentation Physics
Biomaterials
Surface Science

Employment

Science Research Assistant, Plasma Physics Laboratory, National Institute of Physics, UPD, 2007 N 1 - 2008 My 3-
Instructor of Physics, National Institute of Physics, 2008 Je 1-2011 O 31-

Association Membership

Member, Samahang Pisika ng Pilipinas (Physical Society of the Philippines)
Associate Member, National Research Council of the Philippines
Member, National Research Council of the Philippines (NRCP)
Reviewer, Journal of Ecology and the Natural Environment
Reviewer, African Journal of Pure and Applied Chemistry
Reviewer, International Journal of Physical Sciences
Referee/Reviewer, Applied Surface Science

Honors / Awards

2008-2010 DOST Graduate Scholarship Award (Accelerated Science and Technology Human Resource Develop, DOST 2009
International Award (App. Surface Science, 2008), University of the Philippines 2009
International Publication Award (Contact angle, wettability and adhesion,), University of the Philippines 2009

Finalist, Search for Outstanding Thesis and Dissertation Award in the Advanced Science and Technology, PCIEERD 2010

Top 1, National Institute of Physics Top Professors, Greatideas.ph Project, Diliman Interactive Learning Center UPD 2010

Top 2, College of Science Top Professors, Greatideas.ph Project, Diliman Interactive Learning Center UPD 2010

Top 7, University of the Philippines Diliman Top Professors, Greatideas.ph Project, Diliman Interactive Learning Center UPD 2010 2010

Recipient, Erasmus Mundus Mobility with Asia (EMMA), European Commission 2011

Trainings

Plasma in Biology and Medicine/ Plasma Physics laboratory Workshop, University of the Philippines, Diliman, Quezon City 2011 JI 2

10th International Toki Conference (ITC-20) on the Next 20 years in Plasma and Fusion Science, Ceratopia Tki, Toki City, Gifu, Japan 2010 D 7-10

7th polymer Surface Modification: Relevance to Adhesion, University of Maine, Orono, Maine, USA 2009 JI 14-16

26th Samahang Pisika ng Pilipinas Physics Congress, University of the Philippines Baguio 2008 O 23

International Symposium on Contact Angle, Wettability, and Adhesion, University of Maine, Orono, Maine, U.S.A 2008 JI 14-16

6th International Symposium on Contact Angle, Wettability, and Adhesion, University of Maine, Orono, Maine, U.S.A. 2008 JI 14-16

Researches

Completed

Fourier transform infrared spectroscopy (FTIR) characterization of low energy hydrogen ion shower (LEHIS) treatment of polytetrafluoroethylene (PTFE) materials

Completed

Low-energy hydrogen ion shower treatment (LEHIS) of polytetrafluoroethylene (PTFE) materials

The porosity and wettability properties of hydrogen ion treated polytetrafluoroethylene

Effects of low energy hydrogen ion shower (LEHIS) treatment on the optical property and thickness of polytetrafluoroethylene (PTFE) materials

Dynamic Contact Angle Measurements on Various Fabric Surfaces Using a Simple Optical Vision System

Optical Characterization of Hydrogen Ion Treated Polytetrafluoroethylene (Teflon~Materials)

On-going

Cellular and mechanical adhesion properties of hydrogen ion treated polytetrafluoroethylene (biomedical application)

Plasma treatment of polytetrafluoroethylene using oxygen, argon, and nitrogen

Papers Presented

Salapare, H.S.III. (2010 D 7-10). Anti-bacterial property of hydrogen-ion and oxygen-ion treated polytetrafluoroethylene (PTFE) materials, 20th International Toki Conference (ITC-20) on the Next 20 years in Plasma and Fusion Science, Ceratopia Tki, Toki City, Gifu, Japan.

Salapare, H.S.III. (2010 D 7-10). Surface free energy effects of low-energy hydrogen and oxygen ions on polytetrafluoroethylene (PTFEE) materials, 20th International Toki Conference (ITC-20) on the Next 20 years in Plasma and Fusion Science, Ceratopia Tki, Toki City, Gifu, Japan.

Salapare, III H.S. (2009 JI 14-16). Bacterial adhesion performance of poly(tetrafluoroethylene) after surface modification using hydrogen and oxygen low energy gas discharge, 7th polymer Surface Modification: Relevance to Adhesion, University of Maine, Orono, Maine, USA.

Salapare III, H.S. et al. (2008 O 30). Influence of oxygen plasma on the wettability of polytetrafluoroethylene, 27th Samahang Pisika ng Pilipinas Physics Congress, Tagaytay City.

Salapare III, H.S. et al. (2008 O 23). Fourier transform infrared spectroscopy (FTIR) characterization of low energy hydrogen ion shower (LEHIS) treatment of polytetrafluoroethylene (PTFE) materials, 26th Samahang Pisika ng Pilipinas/Physics Congress, University of the Philippines Baguio, Baguio City.

Salapare III, H.S. (2008 O 23). Wetting dynamics model of hydrogen ion treated polytetrafluoroethylene (PTFE) materials, 26th Samahang Pisika ng Pilipinas Physics Congress, University of the Philippines Baguio, Baguio City.

Salapare III, H.S. (2008 O 23). Effects of low energy hydrogen ion shower (LEHIS) treatment on the optical property and thickness of polytetrafluoroethylene (PTFE) materials, 26th Samahang Pisika ng Pilipinas/Physics Congress, University of the Philippines Baguio, Baguio City.

Salapare III, H.S. (2008 JI 14-16). The Porosity and Wettability Properties of Hydrogen Ion Treated Polytetrafluoroethylene, 6th International Symposium on Contact Angle, Wettability, and Adhesion, University of Maine, Orono, Maine, U.S.A..

Publications

- 2011 Salapare, III H.S., Blantocas G.Q. Anti-bacterial property of hydrogen-ion and oxygen-ion treated polytetrafluoroethylene (PTFE) materials. Plasma Fusion Research, 2011, 6:2406043.
- 2010 Salapare, H.S. III., Gines, A.R.B., Blantocas, G.Q., Salamania J.M.R., Villanueva M.B.P., Ramos, H.J. Fourier transform infrared spectroscopy (FTIR) characterization of oxygen-ion treated polytetrafluoroethylene (PTFE) materials. Proceedings of the 28th Samahang Pisika ng Pilipinas/Physics Congress ISSN 1656-2666, 2010 O, 7:4.
- 2009 Salapare III, H.S., Blantocas, G.O., Gines, A., Poral, M.T. Agcaoili, Ramos, H.J. Influence of oxygen plasma on the wettability of polytetrafluoroethylene. Proceedings of the 27th Samahang Pisika ng Pilipinas, Physics Congress, ISSN 1656-2666, 2009 O, 4:p.28.
- 2009 Salapare III, H.S., Blantocas, G.O., Noguera, V.R., Ramos, H.J. The porosity and wettability properties of hydrogen ion treated poly(tetrafluoroethylene). Contact Angle, Wettability, and Adhesion, Kash L. Mittal (Ed.) VSP/Brill, Leiden (2009),(Book Chapter), 2009, 6(Chapter 13):207-216.
- 2009 H.S. Salapare III, G.O. Blantocas, W.L. Rivera, VA Ong, H.J. Ramos Bacterial adhesion performance of poly(tetrafluoroethylene) after surface modification using hydrogen and

- oxygen low-energy gas discharges . Journal of Adhesion Science and Technology, 2009.
- 2008 Salapare III, H.S., Blantocas, G.Q., Noguera, V.R., Ramos, H.J. Fourier transform infrared spectroscopy (FTIR) characterization of low energy hydrogen ion shower (LEHIS) treatment of polytetrafluoroethylene (PTFE) materials. Proceedings of the 26th Samahang Pisika ng Pilipinas/Physics Congress, 2008 O:p. 17.
- 2008 Salapare III, H.S., Blantocas, G.O., Noguera, V.R., Ramos, H.J. Wetting dynamics model of hydrogen ion treated polytetrafluoroethylene (PTFE) materials . Proceedings of the 26th Samahang Pisika ng Pilipinas/Physics Congress, ISSN 1656-2666 , 2008 O, 5:10.
- 2008 Salapare III, H.S., Blantocas, G.O., Lagsa, E.V.B., Noguera, V.R., Ramos, H.J. Effects of low energy hydrogen ion shower (LEH/S) treatment on the optical property and thickness of polytetrafluoroethylene (PTFE) materials. Proceedings of the 26th Samahang Pisika ng Pilipinas/Physics Congress, ISSN 1656-2666, 2008 O, 5:13.
- 2008 Salapare III, H.S., Blantocas, G.Q., Noguera, V.R., Ramos, H.J., Low -energy hydrogen ion shower (LEHIS) treatment of Polytetrafluoroethelene(PTFEE)materials. Research News on Pisika ISSN 1908-7640, 2008 O, 2(1):10-11.
- 2008 Salapare III, H.S., Blantocas, G.O., Noguera, V.R., Ramos, H.J. Low-energy hydrogen ion shower treatment (LEHIS) of polytetrafluoroethylene (PTFE) materials. Applied Surface Science, 2008, 255:2951-2957.
- 2007 Salapare III, H.S. Ulano, .M., Lee, Jr. H.V., Blantocas, G.Q., Daria, V.R.M., Noguerra, V.R., Camcho, M.A.C., Ramos, H.J. Optical characterization of hydrogen ion treated Polytetrafluoroethylene (Teflon) materials. Proceedings of the 25th Samahang Pisika ng Pilipinas Physics Congress, ISSN 1656-2666, 2007 O, 4:p.21.
- 2007 Salapare III, H.S., Palay, J.J.E., Kekim, R., Perez, G.J., Blanca, C.M.Y. Dynamic contact angle measurements on various fabric surfaces using a simple optical vision system. Proceedings of the 25th Samahang Pisika ng Pilipinas Physics Congress, ISSN1656-2666, 2007, 4:p.9.

Name Franco G. Teves

Gender Male

Civil Status Single

Organizational Affiliations

Director of Research/Professor VI, Dept. of Research, Office of the Vice-Chancellor for Research and Extension, MSU-Iligan Institute of Technology, Iligan City

Education

Ph.D. in MicrobiologyMolecular (Sandwich Program), Universidad de Leon, Spain

Fields of Specialization

Biological Sciences

Molecular genetics

Microbial biotechnology

Molecular Biotechnology

Association Membership

Regular Member, National Research Council of the Philippines

Honors / Awards

3rd Prize Winner, 3rd PNHRs National Poster Paper Competition, Davao City 2009 Ag 13-14

1st Prize Winner, Best Oral Paper in the Life Sciences, 7th Philippine Society of the Study of Nature National Convention, Iligan City 2009 N 12-15

1st Prize Winner, Best poster paper in the Health Sciences, Northern Mindanao Consortium for Health Research and Development, Cagayan de Oro City 2009 D 4

Most Outstanding Alumnus, 46th Annual Alumni Convention, Iligan national High School 2009

Trainings

Forum on Climate Change, MSU-IIT, Iligan City 2009 O 24

NRCP Mindanao Cluster Food Safety Meeting -, MSU-IIT, Iligan City 2009 O 19-21

PSSN 9th Annual National Scientific Meeting, MSU-IIT, Iligan City 2009 N 12-15

NorminCoHRD Health Research Forum, Capitol University, Cagayan de Oro City 2009 D 4

3rd PNHRs National Celebration, Marco Polo Hotel, Davao City 2009 Ag 13-14

Researches

Completed

Biomolecular-chemical Screening of Microbial Metabolites 1: Fungal Metabolites with Antibiotic and DNA-

DNA Binding Properties, Phenophenolic Content and Antimicrobial Activity of Secondary Metabolites from Sargassum polycystum

HER2 Gene Expression Profile and Its Correlation to Clinicopathologic and Cytologic Characteristics of a Population of Invasive Ductal Carcinoma of the Breast in Northern Mindanao

Moonlighting Switch Mechanism in the Aconitae Family of Proteins

Effects of Vitamins A, C and E on the Growth and Colonial Morphology of *Aspergillus flavus*

Detection and Quantification of Aflatoxin in Cigarettes; Implications on the Public Health Status of the General Population Chronically Exposed to Environmental Tobacco smoke (ETS)

Angiogenesis Modulating Effects of *Ganoderma applanatum* Extracts Using the Chick Embryo Chorioallantoic Membrane (CAM) Assay

Biomolecular-chemical Screening of Microbial Metabolites III: Terrestrial Microorganisms as

Biomolecular-chemical Screening of Microbial Metabolites II: Marine Sediment Microorganisms with Antibiotic and DNA-binding Properties.

On-going

Search for Biding Sites in Target RNAs for the Lys3 Homoacotinase Protein

Cloning and Characterization of the PAL Gene from the Native Durian Species (NDS) *Durio Zibethinus* Murr.

Growth, Development and Population Dynamics of *edes aegypti* at Increase Ambient Temperature

Biochemical Characterization of the Native Durian Species (NDS) *Durio Zibethinus* Murr.

Ultrastructural Studies on Philippine Isolates of Magnetotactic Bacteria

Ecological, Histological and Molecular Characterization of the "Ice-Ice" Disease in *Kappaphycus* sp.

Screening and Structural Elucidation of Natural Inhibitors of Aflatoxin Biosynthesis and Growth of Aflatoxigenic Fungi

Molecular Pro~iling and Predictive Modeling of Breast Cancer Cases in Northern Mindanao Using Immunohistochemical Techniques

Green Fluorescent Protein(GFP) Gene-based Biosensors for Environmental Monitoring of Heavy Metal Pollution

Cloning and Characterization of AeSCP genes from *Aedes aegypti*

Papers Presented

Teves, F.G. (2009 O 24). Effects of Climate Change on Biological Systems, Forum on Climate Change, MSU-IIT, Iligan City.

Teves, F.G. (2009 O 19-21). Aflatoxin in Foods, NRCP Mindanao Cluster Food Safety Meeting, MSU-IIT, Iligan City.

Teves, F.G. (2009 N 20-21). Software Based Biochemical and Molecular Characterization of the Lys3 Homoacotinase Protein from *Penicillium chrysogenum*, 7th PSM Regional Convention, Chali Beach Resort, Cagayan de Oro City.

Teves, F.G. (2009 N 12-15). Moonlighting Switch Mechanism in the Aconitase Family of Proteins: Nano-sensor Bi-functionality of the *Penicif/ium chrysogenum* Homoacotinase

Protein , PSSN 9th Annual National Scientific Meeting, MSU-IIT, Iligan City.

Teves, F.G. (2009 Mr 10). Sociobiological Dimensions of Municipal Solid Waste Utilization, NRCP 76th National Annual Scientific Meeting, Manila Hotel, Manila,.

Teves, F.G. (2009 D 8). Proactive Role of the LGUs and Communities in Response to Climate Change, 61st Commemoration of the Universal Declaration of Human Rights, Iligan City Government Session Hall, Iligan City.

Teves, F.G. (2009 D 4). Dimensions of Municipal Solid Waste Utilization: Lessons from Dumpsite Pressures and Emergence of Unique Microbial Strains, NorminCoHRD Health Research Forum, Capitol University, Cagayan de Oro City.

Teves, F.G. (2009 Ag 13-14). HER2 Gene Expression Profile and Its Correlation to Clinicopathologic and Cytologic Characteristics of a Population of Invasive Ductal Carcinoma of the Breast in Northern Mindanao, 3rd PNHRs National Celebration, Marco Polo Hotel, Davao City.

Teves, F.G. (2001 JI 11-12). Cloning and Sequencing of Lys3 Gene Encoding Homoaconitase in *Penicillium chrysogenum*, NAST 25th Anniversary and 23rd Annual Scientific Meeting, Manila Hotel, Manila.

Teves, F.G. (2001 Ag 28). Life and Challenges of a Filipino Molecular Biologist, La Salle Academy, Iligan City.

Publications

- 2012 Pajar, J.A.L., Bautista, J.R., Teves, F.G. Effect of Local Isolate of *Bacillus thuringiensis* on *Aedes aegypti* Linn. And *Culex quinquefasciatus* Say Larvae. *Global Journal of Science Frontier Research*, 2012, 12(7-C).
- 2011 Teves, F.G. *Aedes aegypti* Life Cycle, Temperature Effects, and Dengue Fever-Dengue Hemorrhagic Fever Incidence: Climate Change Impact. *Transactions of the National Academy of Science and Technology. Abstracts of Papers*, 2011 JI 13-14, 33(1).
- 2009 Teves, F.G. et al. Transcriptional Up-regulation of four genes of the lysine biosynthetic pathway by homocitrate accumulation in *Penicillium chrysogenum*: Homocitrate as a sensor system of pathway distress. *Microbiology Society for General Microbiology (Advance on-line publication)*, 2009 Ag 20.
- 2006 Teves, F.G. Go, S.E. Sacdalan, A.D. Economic and biotechnological potential of municipal solid waste: Lessons from dumpsite selection pressures and emergence of unique microbial strains.. *Transactions of the National Academy of Science and Technology Philippines. 28th NAST Annual Scientific Meeting, July 12-13, 2006*., 2006, 28(1):p. 60.
- 2005 Teves, F.G. Complementation of the *lys3* mutation in *Penicillium chrysogenum*, L2 using the *lysF* gene from *Aspergillus nidulans*: Demonstration of cross-species functionality of the homoaconitase gene.. *Transactions of the National Academy of Science and Technology*, 2005, 27:p. 42-43..
- 2002 Teves, F.G., Casqueiro, J.B., Raymundo, A.K., Martin, J.F. Sequence analysis of the *LYS3* gene encoding homoaconitase cloned from *Penicillium chrysogenum*. *Harnessing Science and Technology to Meet the Global Challenge*, 2002:p.495.
- 2002 Teves, F.G. et al. The aconitase mechanism of gene regulation: A common theme in diverse biochemical pathways.. *Harnessing Science and Technology to Meet the Global Challenge*, 2002:p. 496.

Name Carlos C. Tomboc
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Date of Birth 08 May 1950
Gender Male
Civil Status Married
Home Address 11011 Palm Drive, Faculty Village Extension College, Los Baños, Laguna

Organizational Affiliations

Director, Philippine Textile Research Institute, Bicutan, Taguig City

Education

Ph. D. in Forestry (PCARRD Scholar) Chancellor's List, University of the Philippines, Los Baños, Los Baños, Laguna 1980-1987

M.S. in Forestry (PCARRD Scholar) Dean's List, University of the Philippines, Los Baños, Los Baños, Laguna 1974-1976

M.P.A. (12 units), University of the Philippines, Los Baños, Los Baños, Laguna 1972-1973

B.S. in Forestry, University of the Philippines, Los Baños, Los Baños, Laguna 1966-1970

H.S. Graduate (Honor Student), Zamboanga City High School, Zamboanga City 1962-1966

Fields of Specialization

Forestry

Textile Industry

Sericulture

Employment

Acting General Manager, Laguna Lake Development Authority (LLDA), 1996 Mr 8-1998 JI 17-

Executive Director, Presidential Task Force on Water Resources Development and Management (DENR), 1998 S 18-1999 F 11-

Director IV, Office of the Undersecretary for Policy and Technical Services (DENR), 1999 F 12- D 30-

Director, Environmental Management Bureau - DENR, 1995 Je 16 - Mr 1996-

Consultant, FAO, World Bank and Swiss Government-Assisted Forestry Project of the Royal Government of Bhutan, 1994 S 1 - D 27-

Regional Executive Director, National Capital Region (Metropolitan Manila) Department of Environment and Natural Resources (DENR), 1994 Mr 1- Ag 31-

Director, National Research Programs, 1993 Je 25-1994 F28-

Special Assistant, Undersecretary for Environment and Research Department of Environment and Natural Resources, 1993Je 25-1994 F 28-

Director, Ecosystems Research and Development Bureau Department of Environment

and Natural Resources (DENR), 1989 My 7-1993 Je 25-

Regional Technical Director for Research, Region VII, Cebu City Department of Environment and Natural Resources, 1987 Ag 28-1989 My 6-

Research Center Director (Supervising Science Research Specialist), Eastern Mindanao Forest Research Center Forest Research Institute Bislig, Surigao del Sur, 1983-1987-

Center Coordinator (Senior Science Research Specialist), Dipterocarp Forest Research Center Forest Research Institute Ministry of Natural Resources, 1977-1983-

Forester, Researcher I (Science Research Associate III), Bureau of Forest Development and Forest Research Institute, 1971-1980-

Company Forester, Zamboanga Wood Products, Inc. (A subsidiary of Boise-Cascades International), 1970-1971-

Executive Director of the Presidential Task Force on Water Resources Development and Management, Department of Environment and Natural Resources (DENR), 1998 to 1999-

Association Membership

DENR Representative, RP-Indonesia Technical Committee for Science and Technology Transfer

Philippine Advisor, Regional Research Institute for Asia and the Pacific Basin

Member, Japan-ASEAN Research Team of Forestry

Philippine Representative, International Union of Forestry Research Organizations

Chairman, Regional Advisory Committee on Tree Breeding and Micro-Propagation

Philippine Focal Person, Asia-Pacific Agro-forestry Network

Chairman, Search Committee for DOST FMS Director

Member, DOST Search Committee for Executive Director and Deputy Executive Director for MIRDC

Chairman and Co-Chairman, Committee on Preparation on Souvenir Program, Publicity and Promotions (NSTW) Celebration

Chairman, Internal Audit for DOST-VIII

Member, Selection Committee for the Deputy Director of STII

Chairman, Internal Audit for DOST-ITDI

Chairman, Internal Audit for DOST-X

Chairman, Fact-finding Comm. to Investigate Certain Issues from Alleged Theft of ITDI Properties & Misappro

Member, Selection Committee for the Regional Director of DOSTNCR

Chairman, Committee to Assess the Impact of the 2003 National Science and Technology Week (NSTW)

Member, Selection Committee for the Deputy Director of PAG-ASA

Chairman, Investigation Committee for the Complaints Against the Regional Director of DOST-XII

Member, Selection Committee for the Regional Director of DOST Region V

Member, Selection Committee for the Director of FPRDI

Member, DOST-Wide Honorarium Committee

Member, DOST-Wide Protest Committee

Member, DOST TWG PES of the Civil Service Commission

Chairman, DOST National Science and Technology Week Fair 2000

Member, Selection Committee for the Executive Director and Deputy Director for PCIERD

Lecturer, River Management ? Resources for Tomorrow MMDA ? DENR

Resource Person, Occasional Engagement Orient Integrated Development and Consultancy Services

Lecturer, Executive Leadership Program Career Executive Service Board

Chairman, Technical Working Group, Presidential Task Force on Water Resources Development and Management

Member, Board of Directors Laguna Lake Development Authority ? DENR

Member, Society of Filipino Foresters Council

Philippine Coordinator, MPTS Project for Agro-forestry Caltex ? DENR, Southern Methodist University (USA)

Chairman, Steering Committee on the Industrial Environment Management Project DENR

Chairman, Working Committee, Metropolitan Environmental Industrial Project DENR

Presiding Officer, Pollution Adjudication Board DENR

Member, Presidential Task Force on Solid Waste Management Office of the President

Chairman, Committee to Implement Presidential Decree 1251 DENR

Co-Chairman, Sub-Committee on Atmosphere Department of Environment & Natural Resources

Member, Inter-Agency Committee on Hazard Evaluation Department of Environment & Natural Resources

Chairman, EIA Component - Integrated Environmental Management for Sustainable Development DENR

Chairman, DENR Technical Review Committee Crocodile Farming Institute

Chairman, DENR Committee to prepare for the World Habitat II Congress in Turkey

Vice-Chairman, NALKO-ANAKAN Rehabilitation Committee Department of Environment & Natural Resources

DENR Secretary's Representative, Governing Council PCAMRD

Member, Tech. Review Comm., DENR-DAP Consultancy Proj. on Environmental & Ntrl Resources Pol, Mgnt & CEP

Chairman, Coordinating Team, Kaingin Control and Management Program DENR

Member, DENR Science and Technology Governing Council Office of the President

Member, Steering Committee, Integrated Protected Areas Systems Project Department of

Environment & Natural Resources

Member, Technical Advisory Committee, Philippine Council for Agriculture and Resources Research and Development (PCARRD)

Member, Executive Steering Committee, Philippine-European Economic Community Agricultural Education Programme DECS, Philippines

National Focal Officer, Philippine Tree Breeding and Propagation Projects DENR-FAO

Chairman, Scientific Evaluation Career Committee Department of Environment & Natural Resources

Director, Board of Directors, Joint Philippine Project to Reforest and Manage a 29,000 hectare Forest Land

Member, Governing Council, Philippine Council for Agriculture and Marine Research and Development (PCAMRD)

Coastal Management Resources Committee, Coastal Management Resources Committee-DENR

Member, Technical Coordinating Committee for the Natural Resources Management Program DENR

Member, Board of Directors, University of the Philippines Los Baños Forestry Alumni Association

Member, Project Deliberation Board, Foreign-Assisted and Special Projects Office DENR

Chairman, Technical Advisory Group, Research and Development Program DENR-CARP-ISF Department of Environment & Natural Resources

Member, Executive Steering Committee, Philippine-Japan Crocodile Farming Project DENR

Lecturer, August and October Courses on Environmental Management DAP

Chairman, Research and Development Committee, Natural Resources Management Program DENR-USAID

Member, TWG on Investment Program Prep & Packaging for the DENR Master Plan for Forestry Devt

Member, Review Committee for the Proposed Forestry Code Department of Environment & Natural Resources

Honors / Awards

Hall of Fame Award, University of the Philippines at Los Banos (UPLB) CFNRAA 2010 Ap 20

2007 Outstanding Forester, Professional Regulatory Commission 2007

Hall of Fame Award for Life Service, U.P Varrons Ltd. 2007

Mancuno Award (Most Outstanding Alumnus), University of the Philippines College of Forestry and Natural Resources 2006

Dr. F. S. Rosete Award for Outstanding Administrator, PCARRD Scholars Association 2006

Presidential Lingkod Bayan Awardee for Exemplary Work Performance, Civil Service Commission of the Philippines 1998

International Expert on Natural Resources Management, United Nations Economic, Social and Cultural Office, New York City 1998-2000

Citation for Outstanding Performance as LLDA General Manager, Board of Directors, LLDA 1998

Exemplary Performance Award as General Manager of the Laguna Lake Development Authority, Twelve River Councils within the Laguna Lake Basin and the Environmental Army 1998

Hall of Fame Award for Performance, Hoy Gising, Television Program, ABS-CBN 1997

Outstanding Alumnus Award for Public Service, UP Varrons Ltd., Silver Anniversary 1997

Outstanding Alumnus Award for Public Service, Zamboanga City High School 1995

Testimonial Award for Outstanding Performance, Career Executive Service Board (CESB) 1992

Trainings

4th Meeting of the Technical Committee and the 4th Session of the Governing Council, Bangkok, Thailand 2008 N 24-29

Seminar for Textiles and Clothing Industry for Developing Countries, Ministry of Commerce (MOFCOM), China 2008 Je 3-22

Textile International Forum & Exhibition 2005, Taiwan 2005 O 12-14

Asia-Pacific Economic Cooperation (APEC) R&D Management Training Program, Jeju Island and Seoul, South Korea 2005 Ja 17-21

Int'l. Seminar and Expert Group Meeting on Technological Development of SMEs in Garment Industry, Ningbo, China 2001 O 18-20

Asian Symposium on Sericulture, Dae-Gu, South Korea 2000 S 17-26

Expert Group Meeting on Strategic Approaches to Freshwater Management, Harare, Zimbabwe 1998 Ja 27-30

6th Session of the United Nations Commission on Sustainable Development, New York, USA 1998 Ap 20 - My 1

Philippine International Wastewater Treatment Congress, Philippines 1997 S 2-3

Senior Officials, Training on Leadership in Development, UNDP. J. Kennedy School of Govt and Harvard Ins. for Int'l. Dev., Harvard University, USA 1997 Je 8-18

Study Mission on Watershed and Water Resources Management, US-AEP. California, Washington State, Louisiana, U.S.A 1997 Je 14-30

World Bank Travel Grant - United Nations Development Programme (UNDP), Netherlands, Germany, Poland and Malaysia 1997

Mission on the Implementation of Effluent Charges for Filipino Decision Makers: Second Stage, Malaysia 1996 Ji 14-17

Seminar-Workshop on Microbial-based Tech. for Pollution Abatement of Laguna de Bay, Manila, Philippines 1996 F 25-27

Mission on the Implementation of Effluent Charges for Filipino Decision Makers, Netherlands, Germany and Poland 1996 Ap 22 - My 3

Symposium on Environmental Technology Cooperation, Nagoya, Japan 1995 O 25-27

Prep. and 7th Meeting of the parties to the Montreal protocol on Substances that Deplete Ozone Layer, Vienna, Austria 1995 N 28 - D 7

Consultative Workshop on Marine Pollution from Land-based Activities, United Nations Environment Programme (UNEP). Reykjavik, Iceland 1995 Mr

The Senior Officials, and Ministerial Meeting on Trans-Boundary Pollution, Kuala Lumpur, Malaysia 1995 Je 14-18

Meeting on Environmental Protection and Management for the East Asian Growth Area, Brunei Daru Salam 1995 Ap 25-29

Technology Matching, beverage Mission, United States of America 1995 Ag 6-16

Consultancy Workshop on Trade and the Environment, Association of South East Asian Nations (ASEAN). Manila 1995 My 11-12

Experts' Consultative Meeting on Climate Change, Bangkok, Thailand 1993 O 12-16

INBAR Pre-implementation Meeting, New Delhi, India 1993 Mr 8-9

2nd Annual Meeting of the Asia Sustainable Forest Management Network, Cisarua, Bogor, Indonesia 1993 Ap 26-29

ASEAN Workshop on Tech. Devt. & Transfer for Mngt of 2nd Growth Dipterocarp Forests, Philippines 1993 Ag

Regional Expert Consultation on Farmer-to-Farmer Strategies for the Transfer of Agroforestry Tech., Cebu City, Philippines 1992 O

Country Advisors' Meeting, Tokyo, Japan 1992 O

Evaluation Mission, Rome, Thailand, Laos, Indonesia 1992 Jl - Ag

Senior Officials, Meeting on Environment, Bangkok, Thailand 1992 Jl

FORSPA Consultation Meeting, Kuala Lumpur, Malaysia 1992 Ja 21-23

Asia Regional Workshop on NGOs, Natural Resources Management and Linkages with the Public Sector, Hyderabad, India 1991 S16-23

Workshop on the Role of NGOs in Promoting On-Farm Tree-Growing Technologies, Pune, India 1991 S 24-27

1Vth International Bamboo Congress, Chiang Mai, Thailand 1991 N 25 - D 8

Symposium on Problems in the Preservation of the Environment, Tokyo, Japan 1991 Mr 15-18

Symposium on Improved Prod of Man-Made Forest Through Appl of Tech Adv on Tree Breeding and Mic-Pro, Bangkok, Thailand 1990 Jl 10-14

Seminar on Research Policy on Community Forestry, Ford Foundation. Bangkok, Thailand 1990 Ja 8-11

XIXth IUFRO World Congress, Montreal, Canada 1990

5th Meeting of the Forest Mensuration and Inventory Technical Working Group, Jakarta, Indonesia 1989 Je 26-28

Pre-Implementation Workshop/Seminar of the Research Managers, Bangkok, Thailand 1989

Int'l. Union of Forest Research Organization (IUFRO) World Congress on Forest Tree Seed Problems, Food and Agriculture Organization (FAO). Vienna, Austria 1985

In-Service Training Workshop Programme on Experimental Multiplication of Dipterocarps, CTFT / United Nations Educational, Scientific and Cultural Organization (UNESCO). Paris, France 1985

12th International Symposium on Remote Sensing, 1978

Observation Tour on Research and Management of the Dipterocarps Forest in Sarawak and West Malaysia, UNDP-FAO 1978

Training on Forest Management Planning, Danish International Development Agency (DANIDA). Copenhagen, Denmark 1977-1978

Papers Presented

Tomboc, C.C. (1995). Forestry Research in Bhutan: Status, Constraints and Directions, A consultancy report submitted to the Food and Agriculture Organization in Rome.

Tomboc, C.C (1991). Environmental Issues in the Uplands in the Philippines, Regional Research Institute for Asia and the Pacific (RRIAP), Nihon University, Tokyo, Japan.

Publications

- 2009 Tomboc, C.C., Mangalindan N.B. The PTRI Outlook on the Development of Philippine Natural Fabrics from Natural Sources. Samay Bulletin, 2009.
- 2002 Tomboc C.C., Delfin R.G. A Case Study on the Impact of S&T Interventions on the Competitiveness of a Traditional Weaving Enterprise in the Philippines. Samay Bulletin, 2002.
- 2002 Tomboc C.C., Rico M.S. Technological Development of Small and Medium Enterprises (SMEs) in the Garment and Textile Industry in the Philippines. Samay Bulletin, 2002.
- 1995 Tomboc, C.C., Wallace, B. Interdisciplinary Research: Development Approach or Duplication. Canopy International, 1995.
- 1995 Tomboc C.C., Wallace, B. Interdisciplinary Research: Re-engineering Development, The Good Root's Case. Canopy International, 1995.
- 1994 Tomboc, C.C. The Economics and Social Aspects of Forest Plantation Development in the Philippines. Experts, consultations on forest plantation techniques. ITTO-JOFTA, 1994.
- 1993 Tomboc, C.C., Mendoza, G.A. A Simulation Model for the Philippines Selective Logging System: Case of a Timber Company. Journal of Environmental Management (USA), 1993 Oct.
- 1993 Tomboc, C.C., Malayang, B.S. The State of the Arts on the Management of the Second Growth Dipterocarp Forest of the Philippines. Proceedings of the ASEAN Workshop on technology development and transfer for the management of second growth dipterocarps forests, DENR-NRMP-USAID, 1993.
- 1993 Tomboc, C.C., Reyes, G.D. Working with People's Organization in the Philippines, the Ecosystems Research and Development Bureau's (ERDB) Integrated Livestock Programme. Non-governmental Organization and the State in Asia,(John Farrington and David Lewis, eds.) Routledge, London, 1993.

- 1991 Tomboc, C.C Promoting on Farm Tree Growing Technologies through ISF-CARP Agro-forestry Project. Proceedings of the Workshop on NGO's and GO's role on tree growing, Pune, India, 1991.
- 1991 Tomboc, C.C Environmental Issues in the Uplands in the Philippines. Proceedings of the Symposium on Environmental Problems in the Asia-Pacific. Regional Research Institute for Asia and the Pacific (RRIAP), Nihon University, Tokyo, Japan, 1991.
- 1988 Tomboc, C.C., Reyes, M.R., REYES, Gianan, N.S. Financial and Some Technical Considerations in Harvesting Second Growth Dipterocarp Forests.A Case Study for ARTIMCO. The Philippine Lumberman, 1988 O.
- 1986 Tomboc, C.C., Bruzon, J.B. Costs of Different Harvesting Methods in Old Growth Dipterocarps Stands in Eastern Mindanao. SYLVATROP, The Philippine Forestry Research Journal (FORI), 1986.
- 1986 Tomboc, C.C A Systems Dynamics Analysis of Selective Logging as A Sustained Yield Timber Management Strategy for the Dipterocarp Forest. Canopy International, FORI (A Conceptual Paper), 1986.
- 1980 Tomboc, C.C., Gianan, N.S., Bruzon, J.B., Basada, R.M. Dipterocarps and Other Trees in the Research Forest of the DFRC. SYLVATROP. The Philippine Forestry Research Journal FORI, 1980.
- 1979 Tomboc, C.C. and Bruzon, J.B. Ten-Year Dynamics of Logged-over Forest in Surigao del Sur. SYLVATROP. The Philippine Foresters Research Journal. FORI, 1979.
- 1978 Tomboc, C.C. Economic Rotation of E.deglupta Pulptimber in the PICOP Plantations. SYLVATROP. The Philippine Forestry Research Journal FORI, 1978.
- 1978 Tomboc, C.C The Growth and Development of Shorea contorta Seedlings in the Open and Under a Second Growth Forest. SYLVATROP. The Philippine Forestry Research Journal FORI, 1978.
- 1978 Tomboc, C.C Research on the Production of Philippine Dipterocarps. Canopy International, FORI, 1978.
- 1977 Tomboc, C.C. Volume Equation/table for E.deglupta Pulptimber in the PICOP Plantations. SYLVATROP. The Philippine Forestry Research Journal FORI, 1977.
- 1976 Tomboc, C.C. Do Research on Regulation for the Natural Forest. Canopy International, FORI, 1976.
- 1976 Tomboc, C.C. The Prospects of Industrial Forest Plantations in the Philippines. Canopy International, 1976.
- 1972 Tomboc, C.C. Progress of Plant Introduction Studies of Tree Species in the Philippines. Occasional Paper, Bureau of Forestry, 1972.
- 1972 Tomboc, C.C. Study on Taxation of Forest Plantations. Occasional Paper, Bureau of Forestry, 1972.

Specialization Index

- Agriculture
Acedo, Villaluz Z.
- Agriculture and Forestry
Aurigue, Fernando B.
NuÑeza, Olga M.
- Animal Physiology
NuÑeza, Olga M.
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David, Fredegusto Guido Panganiban
- Biochemistry
Chung, Francisco S., Jr.
- Biochemistry and carbohydrate chemistry
Merca, Florinia E.
- Biochemistry(Agricultural Chemistry)
De Lumen, Benito O.
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- Biomaterials
Salapare III, Hernando S.
- Biomechanics (Vision, . Cardiovascular, Bone),
Math Finance, Game Theory
David, Fredegusto Guido Panganiban
- Biomedical Engineering
Alocilja, Evangelyn C.
- Biosystems Engineering
Alocilja, Evangelyn C.
- Biotechnology
Jiz, Mario Antonio L. II
- Cancer Cell Biology and Pharmacology
Chung, Francisco S., Jr.
- Chemical Engineering
Garcia, Edgar I.
- Chemical Sciences
Merca, Florinia E.
- Chemistry
De Lumen, Benito O.
- clinical grade cellular product Cell Biology
techniques (FACS, western)
Chung, Francisco S., Jr.
- Compliant Motion and Force Control
Ang, Marcelo H., Jr.
- Computational Intellegence, Neural Networks,
Genetic Algorithms, and Fuzzy Reasoning and
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Ang, Marcelo H., Jr.
- Computational Physics
Monterola, Christopher P.
- Computer Control, Mechatronics and
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Elucidating the composition and role of the Filipino microbiome in health and disease
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Jiz, Mario Antonio L. II

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Chung, Francisco S., Jr.

Pharmacokinetics of Drug-drug interactions
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Physico-chemical properties of promising rice
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Merca, Florinia E.

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Cayabyab, Bonifacio F.

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Political Development
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Political Science
Caoili, Olivia C.

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Caoili, Olivia C.

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Garcia, Edgar I.

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Salapare III, Hernando S.

Teaching/Statistics/ Research/ Public Speaking/
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Use of metagenomics for aquaculture health
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Acedo, Villaluz Z.

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Plant and Animal Science

Alocilja, Evangelyn C.

Biomedical Engineering
Biosystems Engineering
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Ang, Marcelo H., Jr.

Compliant Motion and Force Control
Computational Intelligence, Neural Networks,
Genetic Algorithms, and Fuzzy Reasoning and
their Applications to Robotics and Automation
Computer Control, Mechatronics and
Automation
Creativity and Innovation
Distributed Autonomous Robotics Systems
Mechanical and Electrical Engineering
Mobile Robotic Manipulation in Human
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Basit, Supachai A.

Governmental, Educational and International
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Immunology
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Teaching/Statistics/ Research/ Public Speaking/
Water quality

Baylon, Angelica

Educational and International Policies
Governmental

Caoili, Olivia C.

Modern Political Analysis
Political Development
Political Science
Public Administration
Social Sciences

Cayabyab, Bonifacio F.

Biological Sciences
Entomology
Plant Pathology

Chung, Francisco S., Jr.

Biochemistry
Cancer Cell Biology and Pharmacology
clinical grade cellular product Cell Biology
techniques (FACS, western)
HPLC
Magnetic Activated Cell Sorting (MACS) for
stem cell purification;
Medicine
Pathology and Molecular Medicine
Pharmacokinetics of Drug-drug interactions
Drug transporter activity (P-gp)

Dalmacio, Leslie Michelle Malaluan

Elucidating the composition and role of the
Filipino microbiome in health and disease
Molecular epidemiology of infectious diseases
Molecular Microbiology
Use of metagenomics for aquaculture health
Use of metagenomics in search of probiotics in
Philippine fermented foods

David, Fredegusto Guido Panganiban

Applied Mathematics (mathematical modeling),
Biomechanics (Vision, Cardiovascular, Bone),
Math Finance, Game Theory

De Castro, Belinda V.

Critical Issues in Basic Education
Educational Management
Government and International Policies
Mathematics Education
Nursing Education
Philippine Tourism
Tourism and Nursing Education Research

De Lumen, Benito O.

Biochemistry(Agricultural Chemistry)
Chemistry
Diets and Cancer

Gabriel, Alonzo A.

Food Defense and Security
Food Microbiology
Food Processing and Preservation
Food Quality and Safety
Hurdle/Barrier Technology
Microbial Stress Response

Garcia, Edgar I.

Chemical Engineering
Food Science and Intellectual Property Rights
(IPR)
Statistics and Mathematics

Jiz, Mario Antonio L. II

Biotechnology
Diseases
Immunology
Molecular Biology
Pathobiology

Marcelo, Alvin B.

General Surgery (Trauma)
Medical Informatics
Medical Sciences

Merca, Florinia E.

Biochemistry and carbohydrate chemistry
Chemical Sciences
Physico-chemical properties of promising rice
varieties

Monterola, Christopher P.

Biological Physics and Forecasting
Computational Physics
Modelling Complex Systems
Neural Networks
Physics
Social Networks

NuÑeza, Olga M.

Agriculture and Forestry
Animal Physiology

Romero-Paris, Thelma

Gender mainstreaming, socio-economics and
gender analysis in rice based farming system
research, participatory research
Labor migration and gender analysis,
partnerships
Social Ecology

Salapare III, Hernando S.

Biomaterials
Instrumentation Physics
Physics
Plasma Physics
Surface Science

Teves, Franco G.

Biological Sciences
Microbial biotechnology
Molecular Biotechnology
Molecular genetics

Tomboc, Carlos C.

Forestry
Sericulture
Textile Industry