



CURRICULUM VITAE

FULL NAME: Dr. Ravindra Chandra JOSHI

NICKNAME: Ravi

NATIONALITY: Indian

ADDRESS IN INDIA: Flat # 110, SFS/ DDA Flats
Near Madipur, New Rohotak Road
New Delhi 110 063, INDIA
Res. Phone No.: +91-11-25213381

**PAST ADDRESS
IN THE SOLOMON ISLANDS:** *Senior Adviser (Agriculture Development)*
Ministry of Agriculture and Livestock (MAL)
Solomon Islands Government
Honiara, Solomon Islands
Tel.: +677- 7498456
E-mail: rcjoshi4@gmail.com
ravindra.joshi23@yahoo.com

**PRESENT ADDRESS
IN THE FIJI ISLANDS:** *Visiting Professor (Agriculture Entomology)*
College of Agriculture, Fisheries and Forestry
Fiji National University
Koronivia, Republic of Fiji
Mobile: (+679) 8646411
E-mail: rcjoshi4@gmail.com
ravindra.joshi23@yahoo.com
Skype: ravindra.joshi29
YM: ravindra.joshi23

DATE OF BIRTH: 26th September 1958

CIVIL STATUS: Married

NATIONALITY OF WIFE: Filipino (Philippines), Head/Chief of Library, Philippine Rice Research
Institute, Philippines

CHILDREN: Daughter: Rane E. Joshi (22 years old)- GIS Geologist
Son: Ranjeet Chandra E. Joshi (11 years old)- High School student
Both children stay in the Philippines

ACADEMIC QUALIFICATIONS:

- Bachelor of Science in Agriculture, 1980, Andhra Pradesh Agricultural University, Hyderabad, Andhra Pradesh, INDIA.
- Master of Science in Agriculture (Agricultural Entomology), 1982, Tamil Nadu Agricultural University, Tamil Nadu, Madurai, INDIA.
Thesis title: Recent studies on the rice gall midge, *Orseolia oryzae* (Wood-Mason) (Cecidomyiidae: Diptera).
- Doctor of Philosophy (Entomology), 1988, University of the Philippines at Los Baños (UPLB), College Laguna, PHILIPPINES.
Dissertation title: Seasonal abundance of arthropods in rice: Influence of a pyrethroid insecticide (deltamethrin) and rice varieties.

AREA OF SPECIALIZATION IN CROP PROTECTION: Integrated Pest Management and Natural Biological Control Systems (Alternatives to Synthetic Pesticides); Plant Insect and Non-Insect Pests; Golden Apple Snail (GAS), Invasive Species of Leaf Miner Flies; Black bugs, Rodents and other Invasive Alien Species (IAS) of economic importance to crop production and agriculture trade.

AWARDS AND EMPLOYMENT EXPERIENCES:

- Awarded Junior Research Fellowship for Master of Science in Agricultural Entomology by American Spring and Pressing Works (ASPEE) Agricultural Research & Development Foundation, 1980-1982.
- Employed as Entomological Assistant and Trainer (FAO Rice IPC-IIBC), at International Institute of Biological Control (IIBC- formerly known as CIBC), Bangalore, Indian Station, to assist the First and Special International Course on the Biological Control of Rice Pests, from 02 July 1982 - 15 November 1982.
- Hired by International Rice Research Institute (IRRI), Philippines as its first foreign graduate assistant (Entomology), from November 1983-January 1986.
- IRRI Board of Trustees approved for the first time a research fellowship to an Asian student, who is not employed in his country to pursue Ph.D. programme. Did applied field research on seasonal abundance of rice arthropods (taxonomic characterization based on morphology), Rice Insect Pest Management with farmers, from February 1986-February 1988.
- Hired by the Philippine Rice Research Institute (PhilRice), Department of Agriculture, Philippine Government as its first Foreign Consultant on IPM, from March 1988-April 1989.
- Joined as Rice Entomologist at the International Institute of Tropical Agriculture (IITA), Nigeria, from May 1989-May 1991. Worked on African rice gall midge (ARGM), stalk-eyed fly (SEF) and pests of other cultivated crops.

- Employed by FAO as a Resource Speaker and Facilitator for the First Rice IPM Season-Long-Field Schools in the Philippines conducted at Antique, Aklan, Philippines from June 1991-February 1992.
- Selected by UNDP-WB-FAO as a Collaborative Researcher at IRRI, Philippines from March 1992-August 1993.
- Served as a Crop Protection Specialist (International Recruited Scientist) to Cambodia-IRRI-Australia Rice Project from August 1993 - July 1994.
- Joined as the Head of the Entomology and Nematology Department, Jai Research Foundation, India in October 1994.
- Selected as Marketing Manager (Field Promotion) United Phosphorus Limited, based at New Delhi, India. After one year, promoted to Country Manager for Vietnam, and also partly oversee Kingdom of Cambodia and Republic of the Philippines operations.
- Since 01 October 1997 - 26 October 2001, served as Senior Research Fellow (on contract basis) at the Technology Promotion Department / Crop Protection Division, PhilRice. Developed materials for non-specialists, promoted matured technologies to the end-users and conducted location-specific rice pest management research on golden apple snail, rats, hybrid rice pests, and the giant earthworm pest species.
- Selected as an International Invitational Scientist by Japanese Society for Promotion of Science (JSPS), under long-term fellowship programme (10 months) at the National Agricultural Research Center for Kyushu-Okinawa, Japan. Conducted research on the golden apple snail from 27 October 2001- 27 August 2002 with host scientist, Dr. Takashi Wada.
- On the special order of the Secretary (equivalent to Minister) of Agriculture, Republic of the Philippines spearheaded a special project: Leaf Miner Flies (*Liriomyza* spp.) management on vegetables and cut flowers in the highlands of Cordilleras, Philippines.

EXPERIENCE IN NON-PROFIT RESEARCH ORGANIZATIONS (INTERNATIONAL ORGANIZATIONS / NATIONAL ORGANIZATIONS):

- ***International Institute of Biological Control (IIBC) formerly known as Commonwealth Institute of Biological Control (CIBC), Bangalore, India.*** As Entomological Assistant and Trainer (FAO Rice IPC-IIBC), assisted in the first and specialized international course for southeast rice growing countries on the biological control of rice pests, from 2 July 1982 - 15 November 1982. In addition, developed mass rearing techniques and undertook special contract projects on mass production of beneficial organisms for export to the requesting countries. ***This job gave me a very good experience to get familiar to the host plants-pests-parasites (natural enemies) global databases/catalogues and establish global contacts in crop protection science especially with the taxonomists in various groups.*** *My first research paper in a referred journal was published on gall midge attacking Blackberry with Dr. K. M. Harris, Former Director, CAB-International Institute of Entomology (IIE), UK.*
- ***International Rice Research Institute (IRRI), Los Baños, Philippines.*** As graduate assistant (Entomology) from November 1983 - January 1986 worked on the following projects:

Dr. E. A. Heinrichs (Former Head of Entomology, IRRI and Former Director & Entomologist of Rice Continuum Program, WARDA) and myself discovered the rice leaffolder complex. This cleared twenty-five years of confusion on varietal screening and basic studies at IRRI, against the most commonly believed rice leaffolder species, *Cnaphalocrocis medinalis* Guenee. **After our taxonomic discovery, many scientists from Southeast Asian countries also reported that the dominant species in their rice ecosystems was also *Marasmia patnalis* Bradley, and not *C. medinalis* Guenee.** This led IRRI to revise its multilingual pocket-sized booklet:--*Field Problems of Tropical Rice*. We published several publications on *M. patnalis*. In short my exposure to taxonomy of various insect groups started at an early stage of my entomological career. In addition, we also initiated research on stress-mediated factors affecting varietal resistance to rice insect pests and published on rice thrips and whorl maggot. Published with Dr. Takashi Wada (a Japanese authority on rice leaf folders and planthoppers migration).

Dr. J. A. Litsinger (former IRRI Cropping Systems IPM Entomologist) and I analyzed data set generated on crop losses in upland, lowland irrigated, and rainfed rice ecosystems. It comprised of more than 10 sites within the Philippines with more than twenty cropping seasons. This was presented at the International crop loss conference and published in the *Insect Science & Application*, Kenya.

Dr. O. Mochida (former IRRI Entomologist / Toxicologist) and I in the WMO-IRRI sponsored conference presented a review paper on the effect of climate change on rice arthropods.

Dr. Z. R. Zhan (ICIPE Principal Scientist/Entomologist formerly based at IRRI) and myself published a bibliography on the rice leaffolders and a review article on the varietal resistance to rice leaffolders in *Crop Protection*, UK.

Dr. B. M. Shepard (Former Head of the Entomology Department) was my major Ph.D. Dissertation Advisor at IRRI. Probably it was IRRI's first mega-project outside Los Baños where large-sized farmers' fields were used as experimental units. **The site was located in the Southern Philippines (Koronadal near General Santos, South Cotabato).** I stayed in this site for over one year. The project demonstrated to rice farmers under field conditions host-plant resistance to insect pests in rice varieties breaks down once they are sprayed with unnecessary pesticide application of the resurgence causing insecticides. It also demonstrated that a community-organized-IPM program approach is the most ideal mechanism for technology promotion and adoption. FAO-Rice Intercountry IPC Programme headed by **Dr. Peter E. Kenmore** provided additional funds to support this field and extension-based research project. Farmers, school children, Department of Agriculture officials, spouse of farmers, local radio and TV stations, local newspapers, Office of the Mayor, Governor and NGOs backed the project activities and actively collaborated. The local government unit officials in South Cotabato, Mindanao, Philippines passed the resolution and recognized the project.

- **Philippine Rice Research Institute (PhilRice), Los Baños, Philippines.** This national rice research institute under the Department of Agriculture, Republic of the Philippines became fully operational in 1987. As its First Foreign Consultant on IPM, from March 1988 - April 1989, my major assignment was to submit proposals to external (international) and local funding agencies. Six proposals in the area of crop protection were prepared and submitted to JICA, ACIAR, IRRI, FAO, IFDC, and Danish Government. Most of the projects were funded, implemented, and completed. Aside from it, I was involved in the validation of the IPM location-specific technology project. Also presented in Malaysia a status paper on the Golden Apple Snail (GAS) -- introduced pest of national importance, with Dr. B. M. Rejesus, Project Leader on Botanical Pesticides, Philippines, and Head of the Entomology Department,

University of the Philippines at Los Baños (UPLB), Philippines. This pest is now of great concern in many countries of Asia as well as America.

- ***International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria.*** Joined with Dr. M. D. Winslow Former Director, IITA Rice Research Programme in May 1989 as Rice Entomologist. A collaborative research and training programme was initiated for internal stem feeding rice insect pests. National Cereals Research Institute (NCRI), Badeggi, Niger State, Nigeria, INGER-Africa and IITA conducted nation-wide surveys; assisted farmers, extension workers from Agricultural Development Projects (ADP_s) and NGO_s to develop an environment- friendly IPM tactics to overcome African Rice Gall Midge (ARGM) problem especially in the ARGM hot-spot locations of Nigeria. IITA installed and donated the Rousell Dome Tunnel shaped floating screen house at NCRI to hasten the search for resistant sources of rice and conduct basic studies on impact of natural enemies of ARGM. Such a unique facility was appreciated by the national scientists and Dr. K. M. Harris (discoverer of the ARGM in late 1950's at Badeggi, Nigeria). Dr. Harris presented a special seminar at IITA on ARGM. We conducted several training programs, participated in several seminars/workshops, and launched an extension campaign. Together with Dr. R. Zachmann, Training Coordinator, IITA, we were first to initiate, encourage and publish several IITA research guides for non-specialists on rice insect pests and beneficial organisms with NARS scientists as senior authors. Refereed papers with network collaborators in several international journals were published. The major collaborators were Drs. M. N. Ukwungwu, P. Okocha, S. O. Ajala, E. D. Imolehin (NCRI), and Dr. E. D. N. Umeh (Anambra State University of Technology, Nigeria). Two students from the University of Ibadan, Nigeria worked for their special undergraduate project requirements on: ARGM Science Comic, Evaluation of ARGM Science Comic, Egg parasitoids of the stalk-eyed fly (SEF), Yield loss studies, Varietal screening techniques, Sampling techniques, Damage estimation of ARGM and SEF. Most of the findings have been published with the collaborators in international referred journals.
- ***Food Agriculture Organization (FAO) Intercountry IPC Programme in South and Southeast Asia, Manila, Philippines.*** As a Resource Speaker and Facilitator since June 1991, in the First Rice IPM Season-Long Field Schools conducted at Antique, Aklan, Philippines. I gained skills on how to conduct non-formal training programs for rice farmers and non-specialists. It is this type of training programs that will make IPM to reach to farmers and provide information on the alternatives to synthetic pesticides.
- ***International Rice Research Institute (IRRI), Los Baños, Philippines.*** As UNDP-WB-FAO Collaborative Researcher at IRRI, Philippines from March 1992 characterized the vegetation and arthropod patterns in non-rice habitats in and around rice ecosystems. This involved lost of taxonomic groups and functional guilds. Published on the importance of predatory ants in rice insect pest management with Professor M. J. Way, Consultant at IRRI (Imperial College, London) and Dr. K. L. Heong (IPM Coordinator, IRRI). IRRI research highlights also published the project results emphasizing the role of non-rice habitats in enhancing natural biological control actions.
- ***Cambodia-IRRI-Australia Project (CIAP), Phnom Penh, Cambodia.*** As Crop Protection Specialist (International Recruited Scientist) at CIAP since August 1993, initiated the crop protection program in Kingdom of Cambodia with the Ministry of Agriculture and Food. Initiated knowledge, attitudes and Practices (KAP) surveys with farmers in major rice-growing provinces. Developed a reference museum for most common harmful and useful organisms collected in Cambodian fields on various crops. Studied yield losses by defoliators such as rice caseworm and flower thrips on rice panicles. Established collaborative partnership with NARS researchers in the area of crop protection. Analyzed

how Cambodian rice ecosystems are different from other ecosystems in Asia and strategies essential for IPM implementation.

- **Philippine Rice Research Institute (PhilRice), Los Baños, Philippines.** Since 01 October 1997, as the Chief Science Research Specialist developed simple extension materials for farmers and extension workers, and promoted matured technologies to the end-users. Developed a simple field guide for non-specialists to the harmful and useful organisms in Philippine rice fields in the print format. Also developed technology for dissemination on pest management for hybrid rice, transplanted rice and direct-seeded rice; and on location-specific pest problems in the Philippine rice fields such as earthworms, golden apple snail, rats, and rice stemborer. Aside from this I was on a special assignment/duty by the Office of the Secretary (Minister), Agriculture, Philippines, to study the ecology and management of invasive species of leafminer flies (*Liriomyza* spp.) on vegetables and cut flowers in the Philippine highlands. Spearheaded the global taxonomic project and the global book project on rice black bug that was launched during the PhilRice anniversary in 2007. This book is posted also in the ICIPE website. In 2006, launched the book on Global Advances on the Ecology and Management of the Golden Apple Snail that was co-sponsored by FAO, DICTUC with PhilRice as the publisher.

EXPERIENCE IN CORPORATE SECTOR:

- **Jai Research Foundation (JRF), India.** As Head, Department of Entomology and Nematology upgraded and got the Department accredited for its International specifications on Good Laboratory Practices (GLP) and Good Field Practices (GFP) in February 1995. In addition, it attained the status of certified laboratory by the Ministry of Science and Technology, Government of India, where by results generated and audited on efficacy, residues, persistence, safety studies on non-target organisms for both biologically based as well as synthetic agrochemical, by this laboratory were accepted world-wide. This Department conducts basic as well as applied studies in the field of crop protection chemicals.
 - Collaborative activities with recognized institutions/organizations were initiated and developed such as with the Indian Institute of Management (IIM), Ahmedabad for validating farmer observations/findings with proper experimentation on the pesticide activities of botanicals (indigenous plants). A senior collaborating scientist from IIM was stationed in the laboratory to develop patents.
 - Re-oriented and coordinated the Department's activities, archives, report preparation, documentation and functions. New applications in the area of industrial entomology were initiated. Like the development of tricantanol (growth hormone), and water purifiers from insect molts (dead skin). Field evaluations of pesticides were initiated on 20 ha. in JRF farm for better monitoring, data collection, and cost-effectiveness. Upgrading the experimental design and preparation of reports in compliance with the Central Insecticide Board (CIB) requirements were strictly followed. CIB is the Government of India regulatory agency that issues certification for the export/import or use of any agrochemical in the country to any industry, individual or certified applicator through review of the bioefficacy, and toxicity data submitted by JRF. No report of this Department, since October 1994 was returned by CIB for revision/any deficiency. Developed a database for all studies conducted by this Department since its inception.
 - The Indian Journal of Environment and Toxicology (IJET) were published bi-annually by JRF as an in-house publication. After, I took over as the editor of IJET; it was brought out in a new format with

up-graded scientific quality. The Volume 4 (1), 1994 issue of IJET had its formal release on the 17th Annual Day of JRF (December 5, 1994). Since then subscription to IJET increased by more than 80%. JRF Profile and Annual Report Highlights, other promotional materials were designed, edited, and prepared for promotion and display at the British Crop Protection Conference (BCPC), UK and national conferences, and kits for institute visitors. The foundation's first comprehensive annual report were edited and prepared with staff members.

- **United Phosphorus Limited (UPL), India.** As Marketing Manager (Field Promotion) the major thrust was first geared on season-long-training of field staff and farmer cooperators in northern provinces of India where cotton, rice and fruits (apple, oranges, cherries, plums, and pomegranate) occupy the major share. Emphasis was placed on field demonstrations, farmers' calls, field visits, and crop-pest management modules.
- **United Phosphorus Limited (UPL), Viet Nam.** As Country Manager developed and taught the safe-use-of pesticides in 21 provinces of Southern Viet Nam together with NARS.
 - Developed programs with the agricultural research institutes and Universities in Viet Nam and Cambodia.
 - Initiated and developed joint research programs on peanuts, corn, rice, sugarcane, vegetables, pineapple and banana.
 - Provided gold medals to the first two honors students in any field of Agriculture. Also gave special seminars to post-graduate students of agriculture in the area of integrated crop management.
- **Saigon Plant Protection State Limited Company.** As Special Adviser to the Director (consultancy), developed Mobile Plant Diagnostics Units (new promotion type) in Vietnam and Cambodia together with Ministry of Agriculture staff.
 - Developed the field promotion plans for Cambodia, Laos, Myanmar and Vietnam.
 - Developed collaboration with the agricultural research institutes, government extension agencies, and Universities in Viet Nam and Cambodia.

PUBLISHED PAPERS IN INTERNATIONAL AND NATIONAL JOURNALS: More than 82 papers mostly on rice and vegetable pest management. View IRRI rice web site (<http://ricelib.irri.cgiar.org/search/w>) and other search engines (<http://www.applesnail.net>), (<http://www.potatonews.com>) for complete citation on the Title, Source and Contents:

- Author's Name: Joshi, R. C. / Ravindra C. Joshi
- Keywords: Rice, vegetables, leafminer flies (*Liriomyza* spp.), golden apple snail (*Pomacea canaliculata*), gall midge (*Orseolia oryzae*, *Orseolia oryzivora*), leaf folder, rice insects, yield loss, natural enemies, IPM, field rats, hybrid rice, earthworms, IAS.

MEMBERSHIP ON PROFESSIONAL SOCIETIES AND AFFILIATIONS:

- Full Member, **Sigma Xi**, The Scientific Research Society, USA
- Fellow, Royal Entomological Society (**FRES**) of London, UK
- Chartered Biologist (**CBiol**) and Member (**MBiol**), Institute of Biology, London, UK
- Fellow, Entomological Society of India (**FESI**), INDIA
- Fellow, Plant Protection Association of India (**FPPAI**), INDIA
- Affiliate Member of Society for the Advancement of Research (**SAR**), PHILIPPINES
- Life Member, Philippine Association of Entomologists, PHILIPPINES
- Life Member, Indian Science News Association, INDIA
- Life Member, Association for the Advancement of Entomology, INDIA
- Life Member, Association of Rice Research Workers, Central Rice Research Institute, INDIA
- Life Member, Australian Entomological Society, AUSTRALIA
- Associate Member, World Public Health Nutrition Association (**WPHNA**), UK.

ADDITIONAL INFORMATION:

- Developed the Web-based global information and research network database on invasive species of leaf miner flies (*Liriomyza* spp.) and invasive alien molluscs: Golden Apple Snail (*Pomacea canaliculata*)
<http://www.potatonews.com/leafminers/leafminers.asp>
<http://www.applesnail.net>
- Undergone specialized training at PhilRice on the Statistical Design, Data Analysis, and Interpretation of Results using SAS Software, Philippines. Also had training on basic computer literacy program at the Computer Centre, UPLB, Philippines. Use in day-to-day functions with either Macintosh/IBM compatible systems using various programs on Microsoft Office, etc.
- Undergone Senior Research Managers' training in the management of rice research and management training at PhilRice, offered by the Research Management Institute, University of the Philippines, Los Baños, Philippines.
- Undergone a Correspondence Course on Pest Control offered by the Continuing Education Centre in cooperation with Department of Entomology, Purdue University, USA.

- I am the only Rice Entomologist in the world so far who conducted applied field research work on both species of rice gall midge (Asian rice gall midge and African rice gall midge). My post-graduate study was on Asian rice gall midge, and as rice entomologist to IITA worked on African rice gall midge.
- Published and collaborated with well recognized Rice Entomologist/ Plant Protection Specialists in Asia (Japan: Dr. T. Hidaka-authority on Asian rice gall midge, Dr. T. Wada- authority on rice leaf folders and golden apple snail and Africa; Philippines: Almost all senior staff in the Entomology Department at IRRI, UPLB, PhilRice; Cambodia, Laos, Myanmar, Thailand, India, Korea, Taiwan, Sri Lanka and Vietnam: NARS Scientists), Europe: (UK: Prof. M .J. Way on predacious ants in rice fields; Drs. Keith Harris and Andrew Polaszek on gall midges, stalk eyed-fly and parasitoids); West Africa (Nigeria: Several NARS scientists); and USA (USDA: Dr. Sonja Scheffer).
- Invited to review the research programs of ICIPE, Kenya in 1988; and the Crop Protection Program of PhilRice, 1998.
- Invited to attend the CGIAR-IPM Annual Meeting by SP-IPM at Taiwan in March 2003 and presented our project on invasive species of leaf miner flies (*Liriomyza* spp.). Served as short-term bench consultant on invasive species of leaf miner flies to SP-IPM Leafminer flies working group.
- Appointed by the Provost of ATI-Bangkok as External Examiner for Doctoral Dissertation in Pest Science.
- Revised the CABI database and fact sheet on invasive alien species: Golden Apple Snail for the Crop Protection CABI:CD-ROM
- Invited by various international organizations: FAO/IPPC, World Fish Center, CSIRO, JSPS, SP-IPM, IPPO, APEC, FAO, IPPC to share my work on Invasive Alien Species (IAS) and pest management in Germany, China, Taiwan, Malaysia, Korea, Japan, Ireland, Kenya, Australia, UK, India, Vienna, Netherlands, Laos, Myanmar, etc.
- Received the Executive Directors Award from the Secretary of Agriculture during the 18th Anniversary of PhilRice in 2003. First foreigner to receive this award in the country.
- Attracted external funds from USDA, IRRI, CSIRO, AYAD, Coupland RDC Foundation UK, DICTUC, Chile, FAO, DOST, PCARRD, DA-BAR etc. to PhilRice.
- Excellent networking with government agricultural officials and private profit organizations in Cambodia, Vietnam, Myanmar, Thailand, Philippines and Laos.
- Speak and understand several Asian Languages:
 - Clearly: English, Several Indian Dialects, Filipino (Philippines), Pidgin
 - Slight working knowledge: Vietnamese, Japanese, and Khmer (Cambodia) languages
 - Interested to learn any foreign languages in the country of assignment

□ My Strengths:

- Have established global network contacts with Plant Protection officials-Taxonomists) in ASEAN countries and international, regional, and national organizations
- Have wide work experience in innovative product development and promotion
- Have ability to work as a team member, with good communication and interpersonal skills, in a multidisciplinary and multicultural environment

Key References (Professional Colleagues)

Mohammed Umar

Director, Institute for Research, Extension and Training in Agriculture (IRETA) & Farm
Faculty of Business and Economics
The University of the South Pacific
Private Mail Bag
Alafua Campus Apia, Samoa
T: (685) 22350 - Direct Line
(685) 21671 - Ext. 204 Office
F: (685) 22347
E: <umar_m@samoa.usp.ac.fj>, <umar_m_2000@yahoo.com>

Robert H. Cowie, Ph.D.

Research Professor
Chair, Ecology, Evolution and Conservation Biology Graduate Program
Center for Conservation Research and Training
Pacific Biosciences Research Center
University of Hawaii
3050 Maile Way, Gilmore 408
Honolulu, Hawaii 96822
USA
T: (808) 956-4909
F: (808) 956-2647
E: <cowie@hawaii.edu>

Peter E. Kenmore, Ph.D.

Chief
Plant Production and Protection Division
UN-FAO, Rome
Italy
E:<Peter.Kenmore@fao.org>

Peter A. C. Ooi, Ph.D.

Head of Department of Agricultural and Food Science
(Faculty Representative to UTAR Senate 2012)
Faculty of Science, Universiti Tunku Abdul Rahman (UTAR)
Tan Sri Dato' Philip Kuok Professorial Chair in Agricultural Science
UTAR Perak Campus, Jalan Universiti, Bandar Barat
31900 Kampar, Perak Darul Ridzuan

Malaysia
M: 0122366330
Hans R. Herren, Ph.D.
President
Millennium Institute
2200 Wilson Blvd, Ste 650, Arlington
VA 22201-3357, USA
T: + 1 703 841 0048
F: + 1 703 841 0050
M: + 1 530 867 4569;
E: <hh@millennium-institute.org>

References From Past Direct Supervisors

In Philippines

Leocadio S. Sebastian, Ph.D.
Executive Director
Bioersity International
Malaysia
E: <l.sebastian@cgjar.org>

In Solomon Islands (Reference Attached with application)

Hon. Selwyn Riumana, MP

Former Minister of Agriculture and Livestock, Solomon Islands Government
E: <sriumana@hotmail.com>

Hon. Connelly Sandakabatu, MP

Present Minister of Agriculture and Livestock, Solomon Islands Government
E: <connelly_sandakabatu@yahoo.com>

Mr. Edward Kingmele, CBE

Former Permanent Secretary, Ministry of Agriculture and Livestock, Solomon Islands Government
E: <ekingmele@yahoo.com>