First International Symposium on Moringa
Sixth National Moringa Congress

Moringa a decade of advances in research and development

November 15-18, 2015
Crowne Plaza Manila Galleria Hotel
Manila, Philippines

Hosted by:
Moringaling Philippines Foundation, Inc. (MPFI)
Invitation and message from the Chairman of the International Symposium

Dear Colleagues,

On behalf of the organizing and scientific committees, I would like to invite you to the First International Symposium entitled “Moringa: A Decade of Advances in Research and Development.” This meeting will be held at the Crowne Plaza Manila Galleria Hotel, Manila, Philippines from November 15-18, 2015.

The overall goal of this meeting is to bring together about 300 junior and senior scientists from the international community for a four-day symposium to share new knowledge and information on Moringa, the multi-purpose tree, and to promote the sustainability of its production, processing, utilization, marketing and trade as well as consumption for health and vitality, industry profitability and competitiveness in the context of globalization. The program includes invited speakers, poster sessions, student/fellow presentations, interactive discussion sessions, and free time for informal interaction with colleagues.

The upcoming symposium will continue the tradition of presenting and discussing the latest advances in Moringa research, development and industry in a wonderful location, with a relaxed and a collegial atmosphere.

Participants who may have special needs are asked to make their requests known to the organizers as soon as possible so that every effort can be made to address these needs. In addition, scientists from any discipline who may have an interest in the topics covered in this symposium are also encouraged to attend to enhance the quality of the discussions and interactions.

This first announcement will provide you with general information, the scientific program and important schedules of this symposium.

We look forward to seeing you in November 2015 in Manila, Philippines and thank you in advance for participating and contributing to the success of this event with your scientific contributions.

MANUEL C. PALADA
Chairman and Convener of the International Symposium
Moringa: A Decade of Research and Development

Host:
Moringaling Philippines Foundation, Inc. (MPFI)

Organizers:
AVRDC - The World Vegetable Center
International Society for Horticultural Science (ISHS)
Central Philippine University (CPU)
Farm Systems International Organization (FSI Org)
Moringa

Call for Papers
The symposium aims to encourage the sustainable improvement of Moringa production, market access, promotion and consumption for health and vitality, industry profitability and competitiveness in international trade. Prospective participants are invited to submit abstracts for papers on following topic areas:

Session 1: Botany and Germplasm
*Topics: Ethnobotany and Germplasm*
- Taxonomy
- Biodiversity
- Breeding, varietal evaluation and improvement
- Ecological adaptation
- Seed and plant propagation

Session 2: Production Technology & Agroecosystem
*Topics: Tree Crop Management*
- Climate and soil
- Cropping systems and production economics
- Integrated crop management with focus on Good Agricultural Practices (GAP)
- Low-input organic production
- Harvesting, postharvest and processing
- Good Manufacturing Practices (GMP)

Session 3: Nutrition and Health
*Topics: Nutritional Benefits and Medicinal Properties*
- Moringa in traditional and alternative medicine
- Clinical studies on health benefits of Moringa
- Nutritional studies for improved health
- Nutritional quality of Moringa plant parts (leaf, fruit/pod, seed, root, flower)
- Moringa nutrition and health products in the market
- Food safety

Session 4: Industrial Uses of Moringa
*Topics: Commercial and Industrial Utilization*
- Moringa in livestock and aquaculture feed industry
- Moringa as an alternative energy source (biofuel)
- Water treatment and clarification
- Moringa in cosmetics industry

Session 5: Cross-Commodity/Sectoral Issues
*Topics: The Role of Moringa in Food Security and Poverty Alleviation*
- Farmer participation and community livelihood development
- Moringa and climate change
- Urban and peri-urban horticulture
- Ecological sanitation
- Disaster risk management
- Organic Moringa production
- Market, quality standards and international trade
- Microfinancing
a decade of advances in research and development

Organizing Committee

Chairman: Manuel C. Palada, Central Philippine University, Philippines
Vice Chairman: Honorio Tan, Moringaling Philippines Foundation, Inc., Philippines
Members: Andreas W. Ebert, AVRDC – The World Vegetable Center, Taiwan
Ricky Bates, Pennsylvania State University, USA
Bernadette E. Arellano, Moringaling Philippines Foundation Inc., Philippines
Gina Matsuoka, Moringaling Philippines Foundation, Inc., Philippines
David Makin, Moringa Propagation Company, Israel
Rafael Barrozo, University of the Philippines at Los Banos

Secretariat: Elena Van Tooren, Moringaling Philippines Foundation, Inc., Philippines

Scientific Committee

Chairman: Andreas W. Ebert, AVRDC - The World Vegetable Center, Taiwan
Members: Manuel C. Palada, CPU, Philippines
Ricky Bates, Pennsylvania State University, USA
Jed W. Fahey, Johns Hopkins University, USA
Mark E. Olson, University of Mexico, Mexico
Abram J. Bicksler, ECHO-Asia, Thailand
Rafael S. Barrozo, UPLB, Philippines
David Makin, Moringa Propagation Co., Israel
Nikolaus Foidl, Graz, Steiermark, Austria
Mahmoud A. Sharaf-Eldin, Sulman bin Abdulaziz University, Saudi Arabia
Moringa

Symposium Information

Date and venue

The International Symposium on "Moringa: A Decade of Advances in Research and Development", will be held from **November 15-18, 2015** at the **Crowne Plaza Manila Galleria, Manila, Philippines**.

Spectacular opportunities match its perfect location whether for business or leisure. Centrally located in the vibrant Ortigas Commercial District between Quezon City, Mandaluyong and Pasig, Crowne Plaza Manila Galleria is just a short walk from distinguished organizations such as the Asian Development Bank & Philippine Stock Exchange. The hotel is also directly connected to Robinsons Galleria Mall. Minutes from the hotel are must-see tourist destinations such as Greenhills Shopping Center and Tiendesitas. Providing easy access to other tourist spots is the nearby MRT – Ortigas station. Crowne Plaza is also located at the center of Metro Manila and is easily accessible to Makati, Bonifacio Global City and Ninoy Aquino International Airport. Each of the hotel’s 263 guest rooms and suites offer spacious contemporary rooms with floor to ceiling windows, 42” LED TV & high-speed internet. If you are looking for exclusivity, stay at the Club Floor a private lounge located at the 19th floor with a view of the city. Special privileges include express check-in/out, complimentary refreshments and breakfast. Sample two of Manila’s best dining destinations – Xin Tian Di, a Chinese premier restaurant, and Seven Corners, an international buffet restaurant. Relaxing facilities awaits your stay such as swimming pool, gym and spa.


**Crowne Plaza Manila Galleria Hotel**
Ortigas Avenue Corner Asian Development Bank Avenue, Quezon City, 1100 Philippines

Tel: 63-2-633-7222  
Fax: 63-2-638-2927  
Email: mnlcp@ihg.com

Hotel reservations are recommended along with International Symposium on Moringa ISM2015 Conference registration for special rates. The Crowne Plaza and Holiday Inn are located in the conference complex. Tune Hotel is 10 minutes away. Room rates are given in PhP, indicative rates for US$ given based on current exchange rate. The actual exchange rate at time of hotel booking will apply.

<table>
<thead>
<tr>
<th>Room type</th>
<th>Crowne Plaza</th>
<th>Holiday Inn</th>
<th>Tune</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>PhP 7,500 (US$167)</td>
<td>PhP 6,000 (US$133)</td>
<td>PhP 1,900 (US$42)</td>
</tr>
<tr>
<td>Twin/Double</td>
<td>PhP 8,000 (US$178)</td>
<td>PhP 6,500 (US$144)</td>
<td>PhP 2,200 (US$49)</td>
</tr>
</tbody>
</table>

Room prices/ rates are inclusive of government taxes, service charges and breakfast. Free wi-fi.  
**Note:** There are many hotels and guesthouses near Crowne Plaza Hotel with internet access.
Getting to the venue

Manila City, the most modern and liveliest city in the Philippines is the center of commerce and the country’s biggest city. Ninoy Aquino International Airport is located 7 km south of Manila City. ASEAN member countries can visit the Philippines without a visa. There are many daily flights from other countries to Manila City. There are domestic from other cities in the Philippines to Manila City such as: Cebu, Davao, Iloilo, Bacolod, etc.

Weather

In general, Manila enjoys warm weather in November with temperature ranging from 22°C to 33°C. The humidity of 77% makes weather in November to January more pleasant than in the previous months. Warm sunshine, little rain, and festive atmosphere make November one of the best times to visit the Philippines.

<table>
<thead>
<tr>
<th>November</th>
<th>December</th>
<th>January</th>
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<tbody>
<tr>
<td>Average High</td>
<td>32°C</td>
<td>33°C</td>
</tr>
<tr>
<td>Average Low</td>
<td>23°C</td>
<td>22°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>81%</td>
<td>77%</td>
</tr>
<tr>
<td>Precipitation</td>
<td>110mm</td>
<td>50mm</td>
</tr>
<tr>
<td>Number of wet days</td>
<td>11 days</td>
<td>5 days</td>
</tr>
</tbody>
</table>

Transportation to and from hotel

Ninoy Aquino International Airport (MNL)

Distance: 9.32 miles/15.0 km southeast to hotel
Taxi charge (one way): 400.00PhP
Time by taxi: 30 minutes

From Ninoy Aquino International Airport Terminals 1 and 2, take MIA Road, turn left to Airport Road, 1.5 km turn right to Andrews Ave, left to Aurora (Tramo) Blvd, right to EDSA approx. 8 km, right to Ortigas Avenue after EDSA Shrine, right to ADB Avenue.

Money

The official currency is Philippine Peso (PhP), but the US dollar and major credit cards (Visa, Master Card) are also widely accepted. In tourist centers, most hotels will accept either, while other businesses may prefer PhP. If you are arriving in Manila City by plane, make sure you change a small amount of foreign cash into local currency at the airport to pay your taxi fare.

Facilities

The symposium secretariat office will be set up near the main conference room to facilitate and assist delegates and participants during the symposium. Services will be available from 0800 - 1700 hrs from November 15-18, 2015.
**Language**

The official language is English. No translation will be available during the symposium.

**Symposium registration**

Registration is required to attend all scientific sessions. The registration form (see page 11) can be submitted by uploading to: [http://www.moringaling.net](http://www.moringaling.net)

**Registration fee**

Registration fees will cover one volume of Acta Horticulturae symposium proceedings, a conference bag with CD of abstracts, access to all plenary and poster sessions and parallel working groups, welcome drinks, coffee/tea breaks and lunches.

- US$ 300 for ISHS members as well as members of the organizing institutions
- US$ 380 for non ISHS members
- US$ 50 for students
- US$ 150 for one day registration

The registration fee must be submitted on or before **September 30, 2015**.

**Payment options**

1. **PayPal**: The organizers will send the invoice for your registration fee to your e-mail address and payment can be made via MPFI’s PayPal account using a credit card (Visa, Mastercard, or American Express). You do not need a PayPal account to use your credit card for this purpose.

2. **Bank draft/check**: Details are provided in the application form.

3. **On-site registration** at the start of the symposium may also be done with an additional amount of US$ 20, bringing the total registration fee to US$ 320 for ISHS members as well as members from the organizing institutions, and US$ 400 for non ISHS members. Please note that registration forms received without payment do not constitute registration. Upon acceptance of registration and payment of fee, a “Registration Card” will be issued to the participant.

**Financial support**

The organizing committee does not have funds available to offer for travel assistance and accommodation. However, it may be possible to grant partial support for a limited number of participants from developing countries subject to available funds from sponsors and donors.
Guidelines for paper and poster submission

The Organizing Committee invites you to submit the abstracts for oral or poster presentations on the following topics:

- Ethnobotany, Genetics, Biodiversity, Ecological Adaptation
- Plant Propagation
- Climate, Soil, Agronomy
- Cropping Systems and Production Economics
- Harvesting, Postharvest and Processing
- Nutrition and Nutritional Quality
- Medicinal Properties, Uses and Benefits
- Livestock Feed
- Industrial Uses: Biofuel, Cosmetics, Water Treatment
- Food Safety, Quality Standards and International Trade
- Farmer Participation and Community Livelihood Development
- Moringa and Climate Change

All abstracts are restricted to a maximum of 300 words. Use Times New Roman font exclusively. Titles are typed in 14 point, bold. The rest of the abstract should be 12 point, single line spaced. All abstracts must be written in English using the following file formats: Microsoft Word Document (*.doc) or (*.docx). Your abstract will be submitted to the Scientific Committee for evaluation and presenters will be notified regarding the status of their abstracts (oral or poster presentation) and date of presentation. The committee may request some papers nominated for oral presentation by authors to be presented as posters. All oral presenters must submit a manuscript for Acta Horticulturae and authors of posters are welcomed to submit their manuscript for Acta Horticulturae. Please refer to the ISHS website for author instructions for the presentation of papers at: http://www.ishs.org/authors

Submit your abstract to: https://avrdc.submittable.com/submit

If you are unable to submit your abstract online, please send it via email attachment to:

Dr. Andreas W. Ebert  
Email: andreas.ebert@worldveg.org

Dr. Manuel C. Palada  
Email: mpalada@gmail.com; mpalada@uvi.edu; mcp@farmsystemsintl.org.

Visual aids

A computer and LCD projector will be available to assist the speakers for their oral presentation.

Tours: Post-Conference Field Trips

Post-conference tours will be arranged after the symposium. These activities are not included in the participant’s registration fee but available for a supplementary fee. Reservations can be made by completing the registration for post-conference tours.

Expected tours include:

Tour 1: Estrella Moringa Farm – Carmen, Pangasinan
Tour 2: Moringa Propagation Company – San Fernando, Pampanga
Tour 3: JPM/Japan-Philippines Malunggay Eco Farm, Tranca Bay, Laguna
Moringa

Important dates

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deadline for abstract submission</td>
<td>February 28, 2015</td>
</tr>
<tr>
<td>Notification of abstract acceptance</td>
<td>May 31, 2015</td>
</tr>
<tr>
<td>Deadline for early-rate registration</td>
<td>July 15, 2015</td>
</tr>
<tr>
<td>Deadline for registration</td>
<td>October 30, 2015</td>
</tr>
<tr>
<td>Deadline for full paper submission</td>
<td>December 30, 2015</td>
</tr>
<tr>
<td>Conference</td>
<td>November 15 – 18, 2015</td>
</tr>
</tbody>
</table>

Correspondence

Moringaling Philippines Foundation, Inc.
Main Office:
G/F PITAHC Bldg. East Avenue Medical Center East Ave.
Quezon City 1104 Philippines
Mobile No. 0925-843-0033
Email: moringalingfoundation@yahoo.com.ph
Website: www.moringaling.net

Contact

CONVENERS

Dr. Manuel C. Palada
Visiting Professor, College of Agriculture, Resources and Environmental Sciences
Central Philippine University, Lopez Jaena St., Jaro, Iloilo City 5000 Philippines
Tel.: (63-33) 333-1795
Cell Phone: (63) 922-871-9065
Fax: (63-33) 320-3685
Email: mpalada@gmail.com; mpalada@uvi.edu; mcp@farmsystemsintl.org.

Dr. Andreas W. Ebert
Genebank Manager and Head, Genetic Resources and Seed Unit
AVRDC – The World Vegetable Center
Tel.: (866-6) 583-7801 extn 530
Fax: (866-6) 583-0009
Email: andreas.ebert@worldveg.org
a decade of advances in research and development

SECRETARIAT

Ms. Elena Van Tooren
Secretariat Chair
Moringaling Philippines Foundation, Incorporated (MPFI)
G/F PITAHC Building
East Avenue Medical Center
East Avenue, Diliman, Quezon City
Metro Manila, Philippines 1104
Cell phone: (63) 917-539-9625
Email: bing.vantooren@yahoo.com
# Tentative Program

Program updates will be uploaded to the symposium website at regular intervals.

<table>
<thead>
<tr>
<th>TIME</th>
<th>NOVEMBER 15</th>
<th>TOPICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.00-17.00</td>
<td>Registration</td>
<td></td>
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<table>
<thead>
<tr>
<th>TIME</th>
<th>NOVEMBER 16</th>
<th>TOPICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>07.30-08.15</td>
<td>Registration</td>
<td></td>
</tr>
<tr>
<td>08.30 -10.00</td>
<td>Opening Program</td>
<td></td>
</tr>
<tr>
<td>10.00-1030</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>10.30-12.00</td>
<td>SESSION 1: Botany and Germplasm</td>
<td>Taxonomy, biodiversity, breeding, varietal improvement, ecological adaptation, seed and plant propagation</td>
</tr>
<tr>
<td>12.00-13.30</td>
<td>LUNCH</td>
<td></td>
</tr>
<tr>
<td>13.30-15.00</td>
<td>SESSION 2: Production Technology</td>
<td>Climate &amp; soil, cropping systems, good agricultural practices (GAP), low-input organic production, harvesting, postharvest, processing, good manufacturing practices (GMP)</td>
</tr>
<tr>
<td>15.00-15.30</td>
<td>Coffee Break</td>
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<tr>
<td>15.30-17.00</td>
<td>SESSION 3A: Nutrition and Health</td>
<td>Traditional and alternative medicine, nutritional studies for improved health, nutritional quality, food safety</td>
</tr>
<tr>
<td>18.30-21.30</td>
<td>Dinner and Cultural Show</td>
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<table>
<thead>
<tr>
<th>TIME</th>
<th>NOVEMBER 17</th>
<th>TOPICS</th>
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<tbody>
<tr>
<td>08.30-10.00</td>
<td>SESSION 3B: Nutrition and Health</td>
<td>Traditional and alternative medicine, nutritional studies for improved health, nutritional quality, food safety</td>
</tr>
<tr>
<td>10.00-10.30</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>10.30-12.00</td>
<td>SESSION 4: industrial uses</td>
<td>Livestock feed, alternative energy (biofuel) water treatment, cosmetics</td>
</tr>
<tr>
<td>12.00-13.00</td>
<td>Lunch Break</td>
<td></td>
</tr>
<tr>
<td>13.00-14.00</td>
<td>Poster Session</td>
<td></td>
</tr>
<tr>
<td>14.00-15.30</td>
<td>SESSION 5: Cross-Sectoral Issues</td>
<td>Climate change, urban/peri-urban horticulture, farmer participation and community livelihood development, market, quality standards, international trade, microfinance</td>
</tr>
<tr>
<td>15.30-16.00</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>16.00-17.00</td>
<td>Closing Program</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>TIME</th>
<th>NOVEMBER 18</th>
<th>TOPICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.30-16.30</td>
<td>Field Tours</td>
<td></td>
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</tbody>
</table>
## Registration Form

**INTERNATIONAL SYMPOSIUM ON MORINGA**  
**MORINGA: A DECADE OF ADVANCES IN RESEARCH AND DEVELOPMENT**  
**NOVEMBER 15-18, 2015**  
**CROWNE PLAZA MANILA GALLERIA HOTEL**  
**MANILA, PHILIPPINES**  

### DELEGATE INFORMATION

<table>
<thead>
<tr>
<th>LAST NAME / FAMILY NAME</th>
<th>FIRST NAME</th>
<th>TITLE (PROF/DR/MR/MS/MRS)</th>
<th>GENDER</th>
<th>NATIONALITY</th>
</tr>
</thead>
</table>

### ACCOMPANYING PERSONS (NO ADMISSION TO SCIENTIFIC SESSIONS)

<table>
<thead>
<tr>
<th>LAST NAME / FAMILY NAME</th>
<th>FIRST NAME</th>
<th>TITLE (PROF/DR/MR/MS/MRS)</th>
<th>GENDER</th>
<th>NATIONALITY</th>
</tr>
</thead>
</table>

### OFFICE ADDRESS

<table>
<thead>
<tr>
<th>NAME OF THE INSTITUTE</th>
<th>DEPARTMENT</th>
<th>STREET/CITY</th>
<th>STATE</th>
<th>POST/ZIP CODE</th>
<th>COUNTRY</th>
<th>PHONE</th>
<th>MOBILE</th>
<th>FAX</th>
<th>E-MAIL</th>
</tr>
</thead>
</table>

**NOVEMBER 15-18, 2015  MANILA, PHILIPPINES**
# CONTACT PERSON IN CASE OF EMERGENCY:

<table>
<thead>
<tr>
<th>Name</th>
<th></th>
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<tbody>
<tr>
<td>Street/City</td>
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<tr>
<td>State</td>
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<tr>
<td>Post/Zip Code</td>
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<td>Country</td>
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<td>Phone</td>
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<tr>
<td>Mobile</td>
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<tr>
<td>Fax</td>
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<tr>
<td>E-mail</td>
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</tbody>
</table>

# REGISTRATION CATEGORY (PLEASE TICK THE APPROPRIATE BOX)

<table>
<thead>
<tr>
<th>ISHS Member</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-ISHS Member</td>
<td></td>
</tr>
<tr>
<td>Student</td>
<td></td>
</tr>
<tr>
<td>Accompanying Person</td>
<td></td>
</tr>
</tbody>
</table>

# I AM INTERESTED TO ATTEND (PLEASE TICK THE APPROPRIATE BOXES):

<table>
<thead>
<tr>
<th>Session 1: Botany &amp; Germplasm</th>
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<tbody>
<tr>
<td>Session 2: Production Technology</td>
<td></td>
</tr>
<tr>
<td>Session 3: Nutrition &amp; Health</td>
<td></td>
</tr>
<tr>
<td>Session 4: Industrial Uses</td>
<td></td>
</tr>
<tr>
<td>Session 5: Cross-Sectoral</td>
<td></td>
</tr>
<tr>
<td>All of the Above</td>
<td></td>
</tr>
</tbody>
</table>
## PAYMENT OPTIONS (PLEASE CHOOSE ONE)

<table>
<thead>
<tr>
<th>OPTION 1</th>
<th>(PAYPAL)</th>
<th>The organizers will send the invoice for your registration fee to your e-mail address and payment can be made via MPFI's PayPal account using a credit card (Visa, Mastercard, or American Express). You do not need a PayPal account to use your credit card for this purpose.</th>
</tr>
</thead>
</table>
| **OPTION 2** | (PAY BY CHECK / BANK DRAFT) | You can write a check or obtain a bank draft in the name of ‘MPFI’ and send it to the following address:  
Moringaling Philippines Foundation, Inc.  
G/F PITAHC Building  
East Avenue, Diliman, Quezon City  
Metro Manila, Philippines 1104  
Kindly indicate that the check/bank draft is for the payment of the “registration fee” for the International Symposium on Moringa |
| **OPTION 3** | (ON-SITE REGISTRATION) | You can submit registration payment to the organizers on the first day of the workshop. An additional amount of US$ 20 will be charged for on-site registration. An area will be designated at the workshop venue to receive registration fees. |

### CONFIRMATION

The registration will be completed and confirmed by e-mail upon receipt of the payment (for options 1 and 2). For participants who prefer option 3, kindly proceed to the designated registration area at the lobby of the venue for payment of registration fee.

### PLEASE RETURN THIS FORM TO THE ORGANIZING COMMITTEE:

**MORINGALING PHILIPPINES FOUNDATION, INC.**  
G/F PITAHC BUILDING  
EAST AVENUE, DILIMAN, QUEZON CITY  
METRO MANILA, PHILIPPINES 1104  
EMAIL: MORINGALINGFOUNDATION@YAHOO.COM.PH