PROGRAM

A platform for exploring developments in rice genetics and their applications

6th International Rice Genetics Symposium

6th International Rice Genetics Symposium

and

7th International Symposium on Rice Functional Genomics

Organizer:

IRRI 50 1960-2010 Rice Science for a Better World

Co-Organizer and RG6 Secretariat:

Special Events Group
a division of IIR Exhibitions Pte Ltd, an informa business

16-19 November 2009

Manila Hotel
Manila, Philippines

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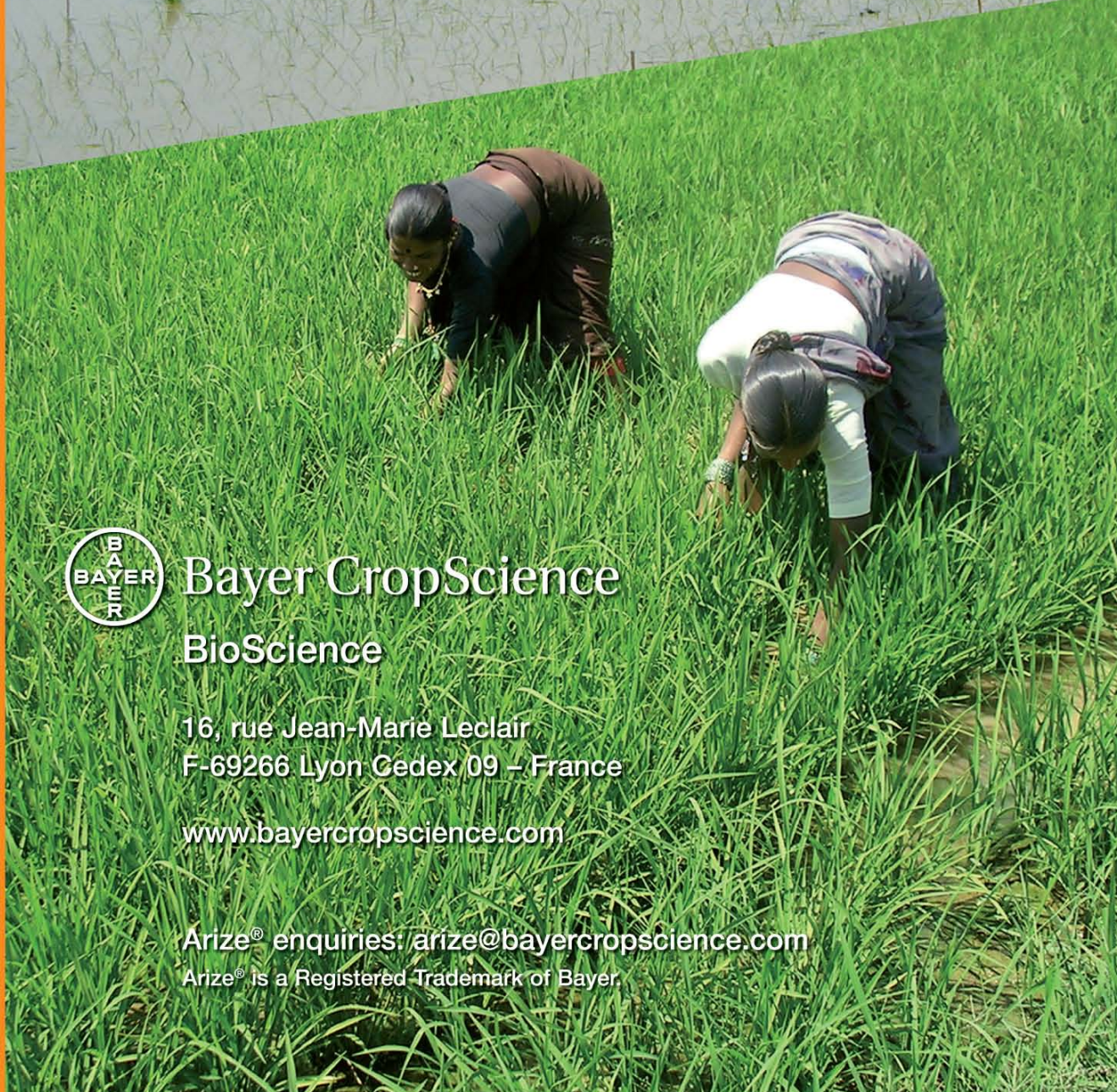

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Advice to Attendees

Attendees are strongly advised not to distribute any literature or printed materials within the event premise.

Published by:

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The 6th International Rice Genetics Symposium and 7th International Symposium on Rice Functional Genomics have gained the support of renowned rice research organizations from around the world, bringing international recognition and prestige to this event.

The International Rice Research Institute (IRRI) and IIR Special Events Group would like to extend our sincere appreciation to all our sponsors and media for their support and effort in bringing the 6th International Rice Genetics Symposium and 7th International Symposium on Rice Functional Genomics to its current high status:

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GLOBAL SCIENCE BOOKS

Evening Workshops

Date : Tuesday, 17 November 2009
Time : 2000-2200
Venue : Pandanggo/Polkabal
Fee : Free for all delegates

Knowledge-sharing workshops, chaired by leading experts, are organized specifically for delegates who will benefit from in-depth discussion on special topics in rice genetics. Please refer to the conference agenda for more details.

Conference Dinner

Date : Monday, 16 November 2009
Time : 1915
Venue : Centennial Hall
Fee : Free for all delegates

This exclusive evening, special for all attendees, promises abundant opportunities for knowledge exchange and networking, and will feature a special program.

Exhibition

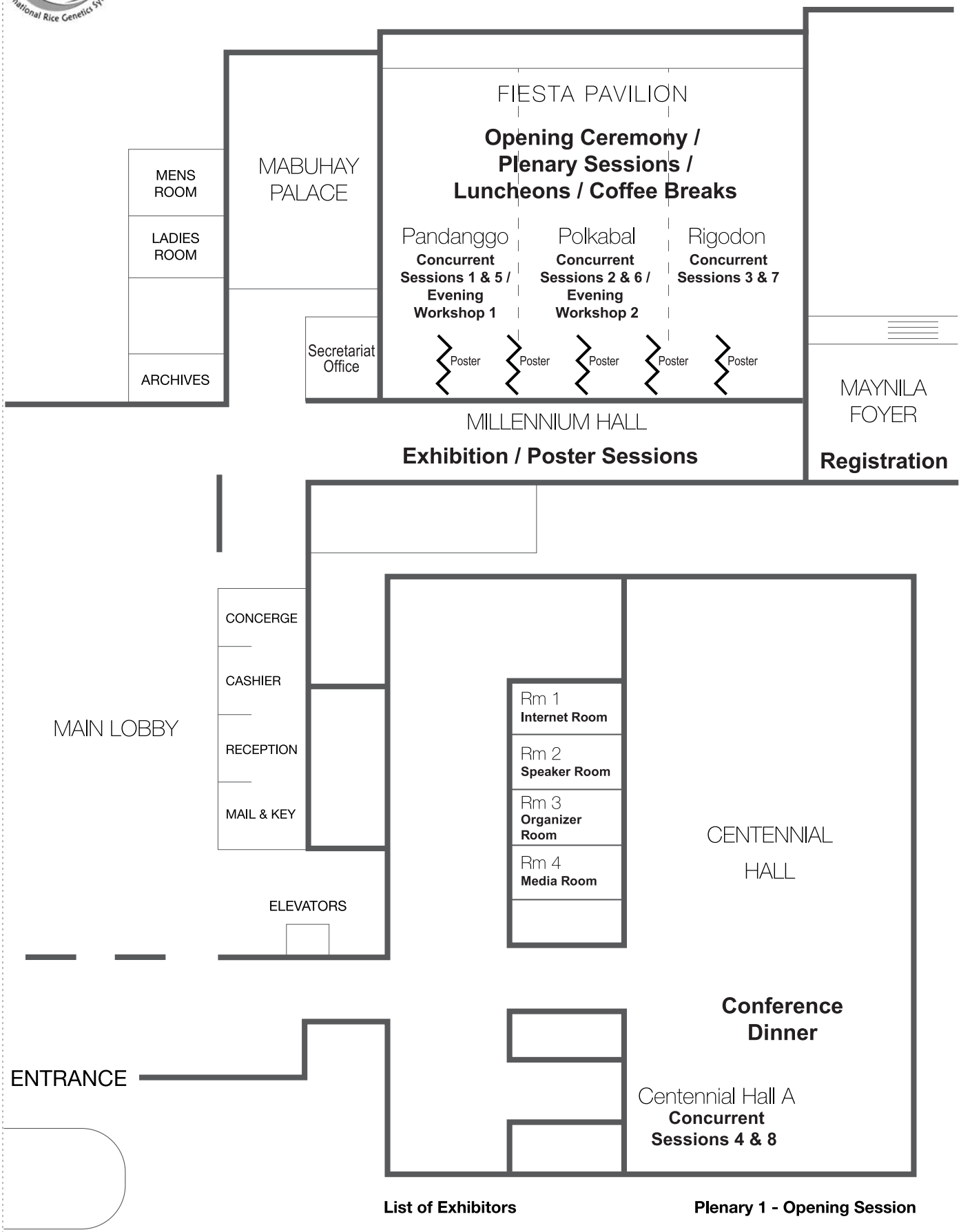
Day 1 : Monday, 16 November 2009
Day 2 : Tuesday, 17 November 2009
Day 3 : Wednesday, 18 November 2009
Time : 0930-1700
Venue : Millennium Hall
Fee : Free for all participants

The exhibition will showcase the latest technology and introduce potential customers to new products. It offers an international platform for networking and market penetration opportunities within the rice industry.

Field Tour

Date : Thursday, 19 November 2009
Time : 0630-1430
Fee : Free for all delegates
Venue : International Rice Research Institute, Los Baños
Itinerary :

Time	Agenda
0630	Depart Manila
0800	Arrive at IRRI Los Baños
0805	Welcome by Dr. R.S. Zeigler, Director General
0815-1130	Guided Tour—Rice Experimental Plots/Facilities
1200	Lunch at Khush Hall (courtesy of IRRI)
1315-1430	Free time
1430	Depart for Manila



List of Exhibitors

Affymetrix, Inc
CropLife Asia
Doriane
Guill-Bern Corporation
Philippines Rice Research Institute
RainPhil Inc
Illumina Singapore Pte Ltd
International Rice Research Institute

Plenary 1 - Opening Session

16 November, 1010
Guest to be seated by 0950

Exhibition Opening Hours

16 – 18 November, 0930 – 1700

Date	Time	Session	Venue
Sun, 15 Nov	0900-1700	Arrival and registration	Maynila Foyer
Mon, 16 Nov	1010-1200	Plenary 1—Opening session	Fiesta Pavilion
	1200-1315	Lunch	Fiesta Pavilion
	1315-1530	Plenary 2	Fiesta Pavilion
	1530-1715	Plenary 3	Fiesta Pavilion
	1715-1915	IRFGC business meeting	Fiesta Pavilion
	1915	Conference dinner	Centennial Hall
Tues, 17 Nov	0820-1025	Plenary 4	Fiesta Pavilion
	1025-1210	Plenary 5	Fiesta Pavilion
	1210-1300	Lunch	Fiesta Pavilion
	1300-1500	Poster session 1	Fiesta Pavilion & Millennium Hall
	1500-1820	Concurrent sessions	
		Concurrent 1— Evolutionary genetics	Pandanggo
		Concurrent 2—Genome structure	Polkabal
		Concurrent 3—Disease and insect resistance	Rigodon
		Concurrent 4—Abiotic stress tolerance	Centennial Hall A
	2000-2200	Evening workshops	
		Temperate rice	Pandanggo
		International Oryza map alignment project (I-OMAP)	Polkabal
Wed, 18 Nov	0820-1025	Plenary 6	Fiesta Pavilion
	1025-1210	Plenary 7	Fiesta Pavilion
	1210-1300	Lunch	Fiesta Pavilion
	1300-1500	Poster session 2	Fiesta Pavilion & Millennium Hall
	1500-1755	Concurrent sessions	
		Concurrent 5—Translational genomics	Pandanggo
		Concurrent 6—Developmental genetics	Polkabal
		Concurrent 7—Grain quality and nutrition	Rigodon
		Concurrent 8—Breeding applications	Centennial Hall A
Thurs, 19 Nov	0630	Depart for IRRI field tour (optional)	

Date	Time	Session
Sun, 15 Nov	0900-1700	Arrival and registration
Mon, 16 Nov		**Plenary 1—Opening Session**
		Chair: David Mackill
	1010-1020	Welcome and Introduction of HRH Princess Sirindhorn of Thailand
	1020-1040	Special Presentation by HRH Princess Sirindhorn of Thailand
	1040-1125	Keynote Presentation: Rice genetics and its impact in a changing world
		Robert Zeigler
		IRRI, Philippines
	1125-1200	The future of rice genomics: sequencing the collective *Oryza* genome
		Rod Wing
		University of Arizona, USA
	1200-1315	Lunch
		Plenary 2 Session
		Chair: Manjit S. Kang
	1315-1350	Leveraging model angiosperm genomics for the understanding and improvement of orphan cereal crops
		Jeff Bennetzen
		University of Georgia, USA
	1350-1425	Exploring the genetic diversity of rice
		Susan McCouch
		Cornell University, USA
	1425-1500	High-throughput resequencing of the rice genome to study TE-related genome dynamics in grasses
		Olivier Panaud
		University of Perpignan, France
	1500-1530	Coffee Break
		Plenary 3 Session
		Chair: Achim Dobermann
	1530-1605	Activation tagging for stress tolerance and plant nutritional traits
		Gyn An
		Pohang University of Science and Technology, Korea
	1605-1640	Developmental dynamics of small RNAs in rice
		Venkatesan Sundaresan
		University of California-Davis, USA
	1640-1715	Iron uptake and loading in the rice grain
		Naoko Nishizawa
		The University of Tokyo, Japan

	1715-1915	International Rice Functional Genomics Consortium business meeting
	1915	Conference Dinner
Tues, 17 Nov		**Plenary 4 Session**
		Chair: Takuji Sasaki
	0820-0855	Next-generation sequencing to discover the genome diversity of rice germplasm
		Bin Han
		Chinese Academy of Sciences, China
	0855-0930	Function of histone modification in rice epigenetic regulation
		Daoxiu Zhou
		Université Paris, France
	0930-1005	Innate immunity in rice
		Ko Shimamoto
		Nara Institute of Science and Technology, Japan
	1005-1025	Coffee Break
		Plenary 5 Session
		Chair: to be confirmed
	1025-1100	Genetics and mechanisms of tolerance to flooding
		Julia Bailey-Serres
		University of California-Riverside, USA
	1100-1135	Salt and drought stress signaling pathways
		Jian-Kang Zhu
		University of California-Riverside, USA
	1135-1210	GA signaling pathways for yield traits in rice
		Makoto Matsuoka
		Nagoya University, Japan
	1210-1300	Lunch
	1300-1500	Poster session 1
	1500-1820	Concurrent sessions
		Concurrent 1
		Evolutionary Genetics
		Convener: Michael Purugganan
		Co-convener: Ken McNally
	1500-1525	Genome evolution in Asian rice: the legacy of 9,000 years of selection
		Jonathan Flowers
		New York University, USA
	1525-1550	SNP analysis and genetic diversity along the rice genome (HaplOryza project)

		Claire Billot
		CIRAD, France
	1550-1615	Towards a rational use of African rice (*Oryza glaberrima Steud*.) for breeding in Sub-Saharan Africa
		Moussa Sié
		Africa Rice Center, Benin
	1615-1640	Evolution of weed-adaptive traits in US red rice populations
		Ken Olsen
		Washington University, USA
	1640-1705	Genetic studies on interspecific hybrid sterility between *Oryza sativa* and its AA genome species
		Dayun Tao
		Yunnan Academy of Agricultural Sciences, China
	1705-1730	Utilization of core collection as Japanese national bio-resources and complement with *de novo* collection
		Ryuji Ishikawa
		Hirosaki University, Japan
	1730-1755	Molecular mapping of two loci conferring F_1 pollen sterility in inter- and intraspecific crosses of rice
		Khin Thanda Win
		Kyushu University, Japan
	1755-1820	Analysis of genetic diversity and redundancy of the Philippine rice germplasm collection by DNA fingerprinting
		Vivian A. Panes
		PhilRice, Philippines
		Concurrent 2
		Genome Structure
		Convener: Nori Kurata
		Co-convener: Darshan Brar
	1500-1525	Genome evolution and reproductive barriers in rice
		Nori Kurata
		National Institute of Genetics, Japan
	1525-1550	Sequence analysis to elucidate mechanisms of evolution in the rice genome
		Takashi Matsumoto
		National Institute of Agrobiological Sciences, Japan
	1550-1615	Organization of genes in the rice genome and its synteny with other species
		N.K. Singh
		Indian Agricultural Research Institute, India
	1615-1640	The prolamins of rice and their orthologs in other cereals
		Joachim Messing

		Rutgers University, USA
	1640-1705	Dynamics of *Oryza* genome evolution: a genus-wide analysis of *Adh1-Adh2* orthologous regions
		Jetty S.S. Ammiraju
		Arizona Genomics Institute, USA
	1705-1730	Structural evolution of a domestication locus and repetitive DNA sequences in the genus *Oryza*
		Scott Jackson
		Purdue University, USA
	1730-1755	Genomewide SNP patterns reveal historical and recent introgressions in *Oryza*
		Ken McNally
		IRRI, Philippines
		Concurrent 3
		Disease and Insect Resistance
		Convener: Shiping Wang
		Co-convener: Casiana Vera Cruz
	1500-1525	Molecular basis of durable and broad-spectrum resistances to diseases
		Shiping Wang
		Huazhong Agricultural University, China
	1525-1550	Genetic analysis of resistance to leafhoppers and planthoppers in rice
		Hideshi Yasui
		Kyushu University, Japan
	1550-1615	QTL meta analysis and genomics of blast resistance
		Jean Benoit Morel
		INRA, France
	1615-1640	Molecular characterization of BPH resistance
		Guangcun He
		Wuhan University, China
	1640-1705	Dissecting QTL: the genes that contribute to disease resistance revealed
		Jan E. Leach
		Colorado State University, USA
	1705-1730	Functional genomics of *Xanthomonas oryzae* pv. *oryzae* African strains
		Valérie Verdier
		IRD, France
	1730-1755	Cloning of *Bph18* gene for BPH resistance
		Kshirod K. Jena
		IRRI, Korea
		Concurrent 4
		Abiotic Stress Tolerance
		Convener: Julia Bailey-Serres
		Co-convener: Abdelbagi Ismail

	1500-1525	Snorkel locus and deepwater elongation growth
		Motoyuki Ashikari
		Nagoya University, Japan
	1525-1550	Kinases involved in anaerobic germination in rice
		Su-May Yu
		Academia Sinica, Taiwan
	1550-1615	Can we make a “smart sensing” and “better performing” rice for saline and dry lands?
		Ashwani Pareek
		Jawaharlal Nehru University, India
	1615-1640	Transcriptome-based analysis of genetic variation for salt tolerance in cereals with specific focus on rice
		Xinping Cui
		University of California-Riverside, USA
	1640-1705	Development of drought-resistant rice “OsSKIP story”
		Lizhong Xiong
		Huazhong Agricultural University, China
	1705-1730	Stress tolerance and grain yield of transgenic rice plants
		Ju-Kon Kim
		Myongji University, Korea
	1730-1755	Genetic and molecular approaches to address heat tolerance during anthesis in rice
		S.V.K. Jagadish
		IRRI, Philippines
	2000-2200	Evening Workshops
		Workshop 1
		Temperate Rice
		Convener: K.K. Jena
		Map-based cloning and molecular breeding of *pi21*, a non-race-specific gene with resistance to blast
		S. Fukuoka
		Hybrid breakdown genes and their implications for the evolution of rice
		Hee-Jong Koh
		Genome-wide SNP discovery among temperate japonica rice cultivars and its application
		Kaworu Ebana
		Cold tolerance: a key trait for improving water productivity of rice in south-eastern Australia
		C. Ye

		Workshop 2
		International *Oryza* Map Alignment Project (I-OMAP)
		Convener: Rod Wing
		Wild Rice Resource Project in Japan and its Perspectives
		Nori Kurata
		The International *Oryza* Map Alignment Project: towards a reference sequence for the collective *Oryza* genome
		Rod Wing
		Repeat structure of the *Oryza*
		Olivier Panaud
		Comparative analysis of centromere 8 across the diploid *Oryza*
		Scott Jackson
		Genomic structure and evolution of the Pi2/9 locus in wild rice species
		Guoliang Wang
		Deepwater rice breeding by QTL pyramiding
		Moto Ashikara
Wed,18 Nov		**Plenary 6 Session**
		Chair: Emmanuel Guiderdoni
Sponsored by:		Bayer CropScience
	0820-0855	Wild species: a valuable genetic resource for rice breeding and genomics research
		Darshan Brar
		IRRI, Philippines
	0855-0930	Heterosis and yield potential in rice
		Qifa Zhang
		Huazhong Agricultural University, China
	0930-1005	Molecular breeding strategies for cereals
		Sandra Milach
		Pioneer, USA
	1005-1025	Coffee Break
		Plenary 7 Session
		Chair: Hei Leung
	1025-1100	Advances in the integration of genomics into breeding in rice
		Masahiro Yano
		National Institute of Agrobiological Sciences, Japan
	1100-1135	Unraveling the molecular mechanism of resistance to the rice blast fungus
		Guoliang Wang

		Ohio State University, USA
	1135-1210	Applications of genomics to rice breeding, with emphasis on transgenic crops
		Usha Zehr
		Mahyco, India
	1210-1300	Lunch
	1300-1500	Poster session 2
	1500-1715	Concurrent sessions
		Concurrent 5
		Translational Genomics
		Convener: Andy Pereira
		Co-convener: Ajay Kohli
	1500-1525	Systems biology of rice
		Pankaj Jaiswal
		Oregon State University, USA
	1525-1550	Key regulators for rice anther development
		Dabing Zhang
		Shanghai Jiao Tong University, China
	1550-1615	Structural patterns of regulatory genome sequences in rice and other grasses
		Antonio Costa de Oliveira
		Federal University of Pelotas, Brazil
	1615-1640	Root development and P-uptake in rice
		Sigrid Heuer
		IRRI, Philippines
	1640-1705	Development and application of gene-specific markers for rice blast
		Joong Hyoun Chin
		IRRI, Philippines
	1705-1730	Marker-assisted introgression of QTL yld2.1 or sub-QTL regions from *O. rufipogon* increases yield of KMR3 and derived hybrid
		Sarla Neelamraju
		Directorate of Rice Research, India
	1730-1755	Large-scale phenotyping of a collection of T-DNA insertion lines of rice
		Mathias Lorieux
		CIAT, Colombia
		Concurrent 6
		Developmental Genetics
		Convener: Srinivasan Ramachandran
		Co-convener: Hei Leung

	1500-1525	Functional genomics of rice pollen development by *Ds* insertion mutagenesis
		Srinivasan Ramachandran
		Temasek Life Sciences Laboratory-National University of Singapore, Singapore
	1525-1550	Small RNAs associated with development and environmental responses
		Pamela Green
		Delaware Biotechnology Institute, USA
	1550-1615	Transcriptome analysis at different developmental stages of rice in response to water stress
		Shoshi Kikuchi
		National Institute of Agrobiological Sciences, Japan
	1615-1640	Brittle phenotype conferred by overexpression of *AtHOG1* gene in rice
		Prakash Kumar
		National University of Singapore, Singapore
	1640-1705	Brassinosteroid homeostasis via the coordinated activation of both BRI1 and biosynthetic genes in rice
		Chang-deok Han
		Gyeongsang National University, Korea
	1705-1730	Evolutionary conservation of regulatory pathways controlling ovule development between *Arabidopsis* and rice
		Ludovico Dreni
		University of Milan, Italy
		Concurrent 7
		Grain Quality and Nutrition
		Convener: Matthew Morell
		Co-convener: Melissa Fitzgerald
	1500-1525	QTLs associated with milling yield
		Anna McClung
		USDA ARS-Stuttgart, USA
	1525-1550	Proteomic characterization of rice bran
		Arthur Z. Wang
		National Chung-Hsing University, Taiwan
	1550-1615	Genetics of aroma
		Mariafe Calingacion
		IRRI, Philippines
	1615-1640	Genetics of low GI in rice
		Vito Butardo
		CSIRO Food Futures Flagship, Australia
	1640-1705	QTL analysis for eating quality in temperate Korean japonica rice variety Ilumbyeo
		Young-Chan Cho

		National Institute of Crop Science-RDA, Korea
	1705-1730	Validation of molecular markers linked to starch synthesizing enzymes associated with amylose content, gelatinization temperature and gel consistency in rice *(Oryza sativa)*
		N. Shobha Rani
		Directorate of Rice Research, India
		Concurrent 8
		Breeding Applications
		Convener: A.K. Singh
		Co-convener: Parminder Virk
	1500-1525	Pyramiding multiple QTLs using SNP-based Breeding-by-design
		Apichart Vanavichit
		Kasetsart University, Thailand
	1525-1550	GM approaches for rice improvement
		Xun Wang
		Syngenta Biotechnology, China
	1550-1615	Rising ozone levels pose a new threat to yield stability in rice: Tolerance mechanisms and underlying genetic factors
		M. Wissuwa
		JIRCAS, Japan
	1615-1640	Genetic enhancement of Basmati rice through molecular approaches
		A.K. Singh
		Indian Agricultural Research Institute, India
	1640-1705	Breeding rice for abiotic stress tolerance
		Baboucarr Manneh
		Africa Rice Center, Benin
	1705-1730	Monsanto's Beachell-Borlaug International Scholars Program for PhD students in rice and wheat breeding
		Ed Runge
		Texas A&M University, USA
	1705-1730	A generalized molecular-quantitative genetics model for dissecting genetic networks underlying complex phenotypes: the theory, predictions and demonstrations
		Zhikang Li
		IRRI, China
Thurs, 19 Nov	0630	Depart for IRRI field tour (optional)

Poster Number	Title	Authors
Session 1: Functional genomics		
P1-1	A multifunctional rice germin like protein	N.K. Tsakirpaloglou, A.M.R. Gatehouse, A. Kohli
P1-2	A novel class of gibberellin 2-oxidases control semidwarfism, tillering and root development in rice	Shuen-Fang Lo, Show-Ya Yang, Ku-Ting Chen,Yue-Ie Hsing, Jan A.D. Zeevaart, Liang-Jwu Chen, Su-May Yu
P1-3	Accelerate the breeding of new rice varieties with preharvest sprouting resistance: isolation and characterization of preharvest sprouting mutants in rice	Jun Fang, Chengcai Chu
P1-4	An effective approach for identification of in vivo protein–DNA binding sites from paired-end ChIP-Seq data	Congmao Wang, Jie Xu, Dasheng Zhang, Zoe A Wilson, Dabing Zhang
P1-5	An exploratory study using EMS mutagenesis of sorghum to create C4-deficient mutants	R.T. Mogul, M.A. Dionora, A.E. Mabilangan, F.R. Danila, K.R. Tan, P.P. Pablico, A.T. Lape, J. Sheehy, P. Quick
P1-6	An insight of aromatic gene: from rice to soybean and other plants	Siwaret Arikit, Tadashi Yoshihashi, Samart Wanchana, Sugunya Wongpornchai, Apichart Vanavichit
P1-7	Analysis and expression of a gene encoding threonine synthase from rice in thrC mutant of *Escherichia coli*	Md.Shafiqul Islam Sikdar, Jung-Sup Kim
P1-8	Characterization of a gene trapped phosphatase protein 2C rice mutant in response to various abiotic stresses	Swee-suak Ko, Yih-Jong Huang, Chai-Wei Kuo, Su-May Yu
P1-9	Cloning and characterization of tissue- and/or stress-specific expression promoter from T-DNA tagged rice mutants	Wen-Lii Huang, Jeng-Chung Lo
P1-10	Deep sequencing of the root transcriptome of a wild species of rice, *Oryza longistaminata*	Haiyuan Yang, Liwei Hu, Thomas Hurek, Barbara Reinhold-Hurek
P1-11	Development and application of 96 and 384-plex SNP sets for diversity analysis and mapping in rice.	M.J. Thomson, K. Zhao, K. Wright, Ma. Y. Reveche, J. Rey, M.A. Rahman, K.L. McNally, H. Leung, S.R. McCouch
P1-12	Effect of ozone on the growth response of AtNDPK-induced transgenic rice lines	Soo-Kwon Park, Norvie L. Manigbas, Dong-Soo Park, Sung-Tae Park, Woon-Ha Hwang, Sang-min Kim, Hoejeong Wang, Min-Hee Nam, Moo-Young Eun, Young-Min Woo, Doh-Hoon Kim, Chang-Deok Han, Hang-Won Kang, Sang-Yeol Lee, Gihwan Yi
P1-13	Establishment of high-throughput screening for activation-tagged rice mutants derived from japonica varieties Dongjin and Tainung 67	G. Dimayuga, A.B. Feldman, R. Mogul, M. Baraoidan, M. Dionora, M. San Pedro, A. Lape, A. Elmido-Mabilangan, H. Leung, P. Quick, G. An, Caroline Hsing, Su-may Yu

Poster Number	Title	Authors
P1-14	Exploratory study on gamma ray mutagenesis in sorghum (BTx623) to install "C4ness" in rice	F.R. Danila, K.T. Acebron, M.J.A. Dionora, P.P. Pablico, A.E. Mabilangan, R.T. Mogul, J.E. Sheehy, W.P. Quick
P1-15	Flowering induction pathway in rice	Kim SL, Cho LH, Jeong HJ, Lee YS, Ryu CH , An G
P1-16	Functional validation of novel gene *OsCDPK31* through over-expression and silencing in rice	Balachandran Sena M, Manimaran P, Akshaya Kumar Biswal
P1-17	'Gold Standard' experiments:photosynthesis and leaf anatomy of sorghum, maize and rice	A.E. Mabilangan, J.C. Revilleza, R.T. Mogul, J.A. Dionora, J.E. Sheehy, W.P. Quick
P1-18	Genome-wide gene expression profiling reveals effects of *Sub1* locus in genes programmed carbohydrate utilization under flash flooding	Vinitchan Ruanjaichon, Apichart Vanavichit
P1-19	High throughput low CO_2 screening for reduced photosynthetic compensation points in rice.	A. Lape, M.J. San Pedro , M.J.A. Dionora, R.T. Mogul, J.M. Orlina, I. Canicosa, W.P. Quick
P1-20	Identification and expression profiling analysis of TIFY family genes involved in stress and phytohormone responses in rice	Haiyan Ye, Hao Du, Ning Tang
P1-21	Interaction and cellular localization of Rad51 paralogs in rice	Mi Young Byun, Gynheung An, Woo Taek Kim
P1-22	Laying the foundations for a C4 rice	M.J.A. Dionora, A.E. Mabilangan, R.T. Mogul, F.R. Danila, P.P. Pablico, A.T. Lape, G. Dimayuga, J.E. Sheehy, W. Paul Quick
P1-23	Major QTLs for grain yield under drought in the background of mega varieties	P. Vikram, Ma. T. Sta Cruz, M. Espiritu, M. Del Valle, A.K. Singh, A. Kumar
P1-24	Map-Based cloning and functional analysis of *Sdr4*, a quantitative trait locus controlling seed dormancy in rice.	Kazuhiko Sugimoto, Yoshinobu Takeuchi, Ebana Kaworu, Hirohiko Hirochika, Masatomo Kobayashi, Hattori Tsukaho, Akiko Yamamoto, Kanako Ishiyama, Naho Hara, Masahiro Yano
P1-25	Mapping of the glabrous gene in rice using CSSLs derived from the cross *Oryza sativa* subsp. japonica cv. Koshihikari x *O. glaberrima*	Rosalyn B. Angeles-Shim, Kenji Asano, Tomonori Takashi, Hidemi Kitano, Motoyuki Ashikari
P1-26	Molecular approaches in studying the *Bph1* locus for resistance to brown planthopper (*Nilaparvata lugens* Stal) through representational difference analysis	Dong-Soo Park, Soo-Kwon Park, Sung-Tae Park, Norvie L. Manigbas, Woon-Ha Hwang, Sang-min Kim, Hoejeong Wang, Min-Hee Nam, Moo-Young Eun, Young-Min Woo, Doh-Hoon Kim, Chang-Deok Han, Sang-Yeol Lee, Gihwan Yi, Hang-Won Kang

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P9-40	Embrapa rice breeding program: gains after twenty years of research	Adriano Castro, Flavio Breseguello, Orlando Moraes, Péricles Neves, Jaison Oliveira, Paulo Rangel, Tereza Borba
P9-41	IMINTA 16 a new mutation for herbicide resistance in rice.	Alberto Livore, Jose Luis Colazo, Alberto Prina, Bijay Singh, Robert Ascenzi, Sherry Whitt
P9-42	Genetic variation in biomass traits among 20 diverse rice varieties	Courtney Jahn, Janice Stephens, Bryant Mason, Sasha Broadstone, Daniel Bush, Hei Leung, John McKay, Jan Leach
P9-43	Farmers' participatory varietal selection: an essential supplementary component to conventional breeding and impact	S.B. Verulkar, A. Kumar, D. Payasi, P. Dongre, A. L. Rathod, S. Tank, V.N. Mishra, M.L Sharma, A.K. Sarawgi, R.L. Pandey, S. Haefele
P9-44	Monsanto's Beachell-Borlaug International Scholars Program for PhD students in rice and wheat breeding	Edward Runge
P9-45	A soil surface rooting mutant is deficient in gravitropism of primary roots in rice	Eiko Hanzawa, Shinsei Nagai, Kazuhiro Sasaki, Akio Miyao, Hirohiko Hirochika, Mitsuhiro Obara, Atsushi Higashitani, Masahiko Maekawa, Tadashi Sato
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P9-49	Fine mapping of *hwh1* and *hwh2*, a set of complementary genes controlling hybrid breakdown in rice	Wenzhu Jiang, Kang-Ie Lee, Tae-Ho Ham, Sang-Ho Chu, Rihua Piao, Yongli Qiao, Joohyun Lee, Hee-Jong Koh
P9-50	Morphological and molecular characterization of aroma in Basmati and non Basmati aromatic rice cultivars	Kalmeshwer Gouda Patil, R. P Veeresh Gowda, H.E Shashidhar , R.S Kulkarni ,N.B Prakash
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P9-56	High yielding medium duration rice variety with new plant type characteristics for Tamil Nadu, India	Rajeswari Sivakami, Robin Sabariappan, K. Mohana Sundaram, R. Pushpam, Manonmani Swaminathan, D. Malarvizhi, K. Thiyagarajan
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P9-60	Conventional breeding approach to condition transgenic resistance against rice tungro disease in popular high yielding rice cultivars.	Somnath Roy, Amrita Banerjee, Jayanta Tarafdar, Bijoy Kr. Senapati, Indranil Dasgupta
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P9-64	Comparison of phenotypic versus marker-assisted background selection during backcrossing in rice	Khandakar Iftekharuddaula, Muhammad Salam, Muhammad Newaz, Betrand Collard, Endang Septiningsih, Darlene Sanchez, Alvaro Pamplona, David Mackill
P9-65	Marker-assisted improvement of popular inbred rice with bacterial blight and tungro resistance	Marjohn Niño, Dindo Tabanao, Haizel Pastor, Jayfred Godoy, Alex Rigor, Edwin Rico Jr.
P9-66	Identification of consistent QTLs over genetic backgrounds and environments for physiological and productivity traits in upland rice (*Oryza sativa* L.)	N.GHanamaratti , P.M Salimath, C.H.M. Vijayakumar, Z.K.Li
P9-67	Nellore Mahsuri (NLR34449) - A high yielding fine grain, blast resistant, short duration rice variety for Andhra Pradesh, India.	Ramesh Babu Pottepalem,Y. Suryanarayana, D Ramachandra Reddy, P. Sreenivasulu Reddy , M. Gopinath , P. Raghava Reddy , V. Damodara Naidu, C.P.D. Rajan , P. Subbarami Reddy , S. Srinivasan , V. Visalakshmi, U. Vineetha
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About Manila

Located on the western coast of the main island of Luzon, Metropolitan Manila (MM) is home to 12 million people of diverse cultures. Covering an area of 636 km^2, it consists of the cities of Manila, 11 other cities, and five smaller municipalities. It is the business and financial hub of the Philippines. The country's entertainment and recreation center, MM has the largest shopping destinations, famous museums, historical attractions, golf courses, and restaurants and bars that create a colorful nightlife.

Safety and Security Precautions

Like most major cities around the world, MM is relatively safe for visitors. However, travelers are advised to take the necessary precautions. Do not walk alone in unpopulated streets after dark or before dawn. Take a taxi to visit a restaurant or an entertainment place that is quite far from your hotel in the evenings. Try to walk in a group and do not draw unnecessary attention to yourself by wearing meeting badges, carrying large sums of money, or wearing jewelry. Lock your cash and valuables in your hotel safe when you do not need them.

Climate

The wet season in the Philippines generally ends in October though typhoons are still possible. Temperature ranges from 23 to 32 ^{o}C (73–90 ^{o}F). Humidity is 71–85%.

What to Wear

Light and casual clothes are recommended. When visiting churches and temples, propriety dictates that shorts and scanty clothing be avoided. For formal occasions, dinner jackets and ties are safe or you can wear the Philippine Barong Tagalog for men and cocktail dresses or long gowns for women.

Language

English and Filipino are the official languages. Most public utility drivers and street peddlers will understand and speak familiar English words.

Time Zone

Local time is GMT plus 8.

Visas

Visitors with valid passports and tickets for their onward journey do not require visas for a stay of up to 21 days. However, entry visas are required for restricted nationals, stateless persons, and those from countries that have no diplomatic relations with the Philippines. Please contact the Philippine Embassy/Consulate nearest you to check the countries on the visa required list.

Health Regulations

A certificate of vaccination against yellow fever is required for travelers coming from infected areas. Otherwise, visitors are not required to take any vaccination. Children less than 1 year old

are exempted but may be subject to isolation when necessary.

Hospitals are listed in the "Yellow Pages" of the local telephone directory. Health centers provide emergency medical attention in remote towns and cities.

Customs

Airline passengers must fill out the Baggage and Currency Declaration Form (BC Form 117) before disembarking to facilitate customs examination. For those with no currency or articles to declare, BC Form 117 signed by the Customs Officer serves as a gate pass. Visitors carrying more than US$3,000 are to declare the amount at the Central Bank of the Philippines counter situated at the Customs area. Foreign currency taken out upon departure must not exceed the amount brought in. Departing passengers are not allowed to bring out more than PHP 1,000 in local currency. Imported items that are brought in and will not be taken out again are taxable. Departing passengers are permitted to carry foreign currency up to the amount brought in and declared.

Electronic equipment. Laptop computers and other electrical equipment for personal use may be brought into the country without duty if these items will be taken out of the country on departure.

Insurance

Please arrange for your own medical, travel, and personal effects insurance while attending RG6.

Airport Tax

Travel tax will be collected upon departure. The rate for international flights is PHP 750 or about US$17. The rate for domestic flights depends on the destination and may change without prior notice.

Currency and Banking

The exchange rate fluctuates around US$1 = PHP 46.
Traveler's checks and foreign currency notes of all major currencies can be exchanged at the airport, commercial banks, large department stores, major hotels, and authorized money-changing shops accredited by the Central Bank of the Philippines. Duty banks at the airport serve late flight arrivals and departures.

- Banking hours: 0900-1500, Monday to Friday.
- Currency: the Philippine peso (PHP) is the local currency, available in denominations of PHP 20, PHP 50, PHP 100, PHP 500, PHP 1,000, and PHP 2,000 notes; and PHP 10, PHP5, PHP1, 25¢, 10¢, and 5¢ coins.
- International credit cards such as Visa, Diners Club, Bank Americard, Master Card, and American Express are accepted in major establishments.

Currency Regulations

Visitors carrying more than US$3,000 are requested to declare the amount at the Central Bank of the Philippines counter situated at the customs area. Foreign currency taken out upon departure must not exceed the amount brought in. Keep all exchange receipts for record purposes. Departing passengers may not take out more than PHP 1,000 in local currency.

Power Supply

The supply is mostly 220 volts, which is usually obtainable through a three-pin plug. US-made appliances of lesser voltage require a transformer. Adapters can be obtained locally but it is better to bring your own

Telecommunications

A GSM cell phone with international roaming capability will work for local and international calls. Pay phones are available in commercial centers. Calls can be made using coins or phone cards. International Direct Dialling (IDD) Service connects to over 120 countries worldwide. The international access code for the Philippines is +63. The outgoing code is 00 followed by the relevant country code (e.g., 001 for the United States). National Direct Dialing (NDD) service is also provided for connections to major cities in the Philippines. City/area codes are in use, e.g., (0)2 for Manila. Full telex, fax, and electronic mail facilities are widely available.

Local Transport

Metered and fixed-rate taxis are widely available in key cities nationwide. Air-conditioned taxis cost PHP 30 on the meter and an extra PHP 2 will be added for every 500 meters. Jeepneys and buses are inexpensive ways of getting around most places. It is suggested to always bring loose change when taking public transport.

In Metro Manila, the fastest way of commuting is via the railway system. LRT connects Monumento in the north to Baclaran in the south. MRT traverses the length of EDSA from North Avenue to Taft Avenue

Tipping

Although a service charge is included in the bill in hotels and restaurants, it is customary for customers to give tips. Tipping taxi drivers is not mandatory, but rounding the fare upward is a good rule of thumb. A minimum of PHP 20 tip will be highly appreciated by hairdressers, beauty parlor attendants, and hotel bellboys.

Shopping

Shops deal only in Philippine pesos but most malls have foreign currency exchange counters that accept major currencies. Most shopping centers are open from 1000 to 2100. Major credit cards are accepted but be prepared to show your passport to the cashier as proof of identity.

The malls carry import-quality local and high-quality designer brands of clothes and shoes for all ages, sporting goods, furniture, appliances, groceries, toiletries, and food and beverage.

They house state-of-the-art cinemas and auxiliary products and services such as amusement centers, spas, medical and dental facilities, bars, coffee shops, photo and video studios, salons, banks, and hobby shops, among others. When shopping in a public market, it is perfectly acceptable to haggle for the cheapest price.

Value-added Tax

A value-added tax is levied on hospitality services and on the market/quoted price of most goods offered for sale.

Dining

Filipino Cuisine is an exotic, tasteful blend of Oriental, European, and American culinary influences. There is a wide variety of fresh seafood and delectable fruits. There are first-class restaurants which offer gourmet specialties as well as Filipino Cuisine. Popular fast food chains are abundant as well.

Water

Bottled water is recommended and is available in most hotels, restaurants, resorts, supermarkets, and convenience stores.

Airport Transfer

The journey from the airport to the hotel varies depending on the time of day. You can travel by

Car
- accommodates up to a maximum of 4 passengers
- car rental—Avis is available but slightly more expensive

Taxi
- accommodates up to a maximum of 4 passengers

Van
- accommodates up to a maximum of 10 passengers

The symposium offers a rare opportunity for you and your companion(s) to visit famous tourist destinations in the Philippines. If interested, you can contact Global-Link, our appointed travel and accommodation coordinator, at telephone number (632) 750-8588 and fax number (632) 750-8585. You can also address inquiries to Ms. Lanie Muriel at lanie.muriel@globallinkmp.com.

Below are descriptions and published rates (subject to change without prior notice) for tour packages of the most publicized destinations.

A. QUEZON CULINARY TOUR

Imagine visiting places that are a feast to the eyes, tasting food that more than satiates the palate and meeting creative people whose presence serve as balm to the spirit. Embark on a day's journey to enjoy the countryside and experience the unique hospitality only Filipinos can share. Journey with us through charming country inns, inspiring artists' studios, and off-the-beaten-path cafes and enjoy culinary masterpieces that use unique and modern renditions, interpretations, and combinations of classic Filipino dishes.

- Tour Facilitator
- Breakfast at SULYAP
- Lunch at Kusina Salud
- Afternoon snack at Ugu Bigyan's Pottery Garden
- Tagayan ritual
- All entrance and demo fees
- Bottled water or local fruit soda

Time: 0730-1900
Package Cost: PHP 6,000/pax (US$130)

B. PAMPANGA CULINARY TOUR

Travel to the countryside and savor the unique taste of authentic Kapampangan cuisine. Visit a culinary museum, a farm in the foothills of Mt. Arayat where you will enjoy the culinary delights of Abe Restaurant right where it comes from—the gourmet province of Pampanga, and a spa village where you will surrender to the healing touch of nature.

- Tour Facilitator
- Pick-up and drop-off services at partner hotels
- Kapampangan breakfast at Camalig Restaurant
- Culinary Museum tours
- Cooking demo
- Lunch at Abe's Farm
- Spa treatment at Nurture Spa Village

Time: 0700-1730
Package Cost: PHP 6,000/pax (US$130)

C. TAGAYTAY WELLNESS TOUR

Tagaytay is the perfect day-trip destination outside Manila. A scenic drive to the countryside treats the traveler's eye to sights of pineapple plantations, colorful fruit stands, flowers in bloom, ridges and mountains swathed in green, and a breathtaking view of the famous Taal Volcano—the world's smallest volcano. Enjoy a trip to an English Garden and restaurant, a honeybee farm with an array of natural products for sale, and a spa village featuring traditional Filipino huts where you can enjoy Asian spa treatments and come home feeling relaxed, refreshed, and full of sweet Tagaytay memories.

- Tour Facilitator
- Pick-up and drop-off services at partner hotels
- Sightseeing tour of Tagaytay

- Lunch at Sonya's Garden
- Spa treatment at Nurture Spa Village
- Bottled water or local fruit soda

Time: 0800-1800
Package Cost: PHP 6,000/pax (US$130)

D. LAHAR SAFARI ADVENTURE

Puning Spa, situated at the edge of Sapangbato, Angeles, Pampanga, makes good use of the elements spewed by Mount Pinatubo by turning it into spa essentials that heal the body and relax the mind. Puning Spa can be reached using a 4x4 vehicle that travels through the spectacular lahar valley and unique mountain passes that will surely take your breath away.

- Tour Facilitator
- Pick-up and drop-off services at partner hotels
- 4x4 vehicle rentals
- Puning Spa fees
- Sand Spa treatment
- Filipino lunch buffet
- Bottled water or local fruit soda

Time: 0730-1600
Package Cost: PHP 6,000/pax (US$130)

E. ULTRA LIGHT FLYING ADVENTURE

Just a short ride away from Manila is the Province of Pampanga. A haven for people who want to experience the leisurely pace of the countryside, Pampanga is also known for its sumptuous cuisine. Visit a farm in the foothills of Mt. Arayat, where you will be served a native Filipino lunch, explore a cultural village, enjoy a relaxing spa treatment in a traditional Filipino hut, and experience the thrill of flying hundreds of feet up in the air and hover above farms and the Clark Airbase in a 10-minute ultra-light flight ride—all in this unforgettable Pampanga adventure!

- Tour Facilitator
- Pick-up and drop-off services at partner hotels
- Ultra-light airplane ride
- Lunch at Abe's Farm
- Spa treatment at Nurture Spa Village
- Bottled water or local fruit soda

Time: 0800-1730
Package Cost: PHP 6,000/pax (US$130)

F. INTRAMUROS HERITAGE TOUR

Intramuros or the "walled city" is the best place to view Spanish colonial architecture from 1571. It is one of the most well-preserved medieval cities in the world. Within its walls is a Light and Sound Museum, an interactive attraction featuring life-sized dioramas that showcase the historic events in the Philippines from the pre-Hispanic period and Spanish colonization to the life of Dr. Jose Rizal, the Philippine National Hero. Shop for masterfully crafted native products at Mananzan Handicrafts and enjoy lunch at Barbara's, a 19th-century establishment in a Spanish setting that specializes in Spanish and native dishes.

- Tour Facilitator
- Pick-up and drop-off services at partner hotels
- Sightseeing tour around the city
- Light and Sound Museum entrance fee*

- Buffet lunch in a 19th-century Spanish setting**
- Fort Santiago entrance fee
- Tour of Intramuros
- Bottled water or soda

* Closed on Mondays. Will be replaced by a tour of the San Agustin Church and Museum.
** Mon-Fri only. A la carte applies for Sat and Sun.

Time: 0800-1300
Package Cost: PHP 2,500/pax (US$54)

G. INTRAMUROS WITH SUNSET DINNER CRUISE

After an interesting Intramuros Heritage Tour, unwind as you experience the captivating sunset of Manila Bay. An extraordinary sight to behold because of the different play of colors decorating the sky. Watching the Manila Bay sunset through a Sunset Dinner Cruise is a truly pleasurable experience in the city. Seize the moment while riding on to the sunset with a romantic dinner cruise and enjoy a full-course meal and live entertainment that showcases true Filipino talent onboard the yacht. Perfect for couples looking for a romantic setting, the Sunset Dinner Cruise is an affair to remember.

- Tour Facilitator
- Pick-up and drop-off services at partner hotels
- Sightseeing tour around the city
- Light and Sound Museum entrance fee
- Fort Santiago entrance fee
- Tour of Intramuros
- Sunset Dinner Cruise
- Bottled water or soda

* Closed on Mondays. Will be replaced by a tour of the San Agustin Church and Museum.

Time: 1200-1945
Package Cost: PHP 3,000/pax (US$65)

H. INTRAMUROS WITH CULTURAL DINNER SHOW

After an interesting Intramuros Heritage Tour, experience a cultural dinner at Barbara's restaurant. Barbara's is a 19th-century establishment that specializes in Spanish and native dishes. Enjoy a show featuring talented Filipino singers who will serenade you and dancers who will introduce you to the many colorful and creative Filipino dances that originated from the barrios and other parts of the Philippines. The old-world charm of Barbara's adds a nice touch to the whole cultural experience.

- Tour Facilitator
- Pick-up and drop-off services at partner hotels
- Sightseeing tour around the city
- Light and Sound Museum entrance fee
- Fort Santiago entrance fee
- Tour of Intramuros
- Cultural Show
- Buffet dinner at Barbara's
- Bottled water or soda

* Closed on Mondays. Will be replaced by a tour of the San Agustin Church and Museum.

Time: 1200-2030
Package Cost: PHP 3,000/pax (US$65)

I. GOLF PACKAGE TOUR

Swing your best club and enjoy a great round of golf in Manila. One thing that makes Philippine golfing unique from the standard experiences abroad is that all the courses have caddies. The caddies pull the clubs, they help with club selection as they eventually figure out how long a hitter a player is, and, best of all, they give advice on the game.

You will be treated to a rolling tour of some of Manila's or Makati's best attractions before proceeding to Club Intramuros or the Philippine Army Golf Courses, where you will spend a half day of leisurely golf.

- Tour Facilitator
- Pick-up and drop-off services at partner hotels
- Golf trainer
- Golf rental kit
- Caddy
- Bottled water or local fruit soda

Time: 0800-1330
Package Cost: PHP 6,000/pax (US$130)

J. SPA & SHOPPING SPREE

Travelers can indulge in purely pleasurable activities as they treat themselves to one fine day in Manila, one of the greatest spa and shopping destinations in Asia. From power-spending down to flea market bargaining, one will never run out of options while exploring the malls of Manila, the uncontested shopper's paradise. Tourists can pamper their body after a day of discoveries as they unwind and get the treatment they deserve amidst a relaxing atmosphere of a serene spa. What an exciting way to spend a day in the city!

- Tour Facilitator
- Pick-up and drop-off services at partner hotels
- Sightseeing tour around the city
- Buffet lunch at Kamayan Restaurant
- Spa treatment at NEO Spa
- Bottled water or local fruit soda

Time: 0900-1800
Package Cost: PHP 4,000/pax (US$87)

Rice science for a better world

The International Rice Research Institute (IRRI) has been a global leader in rice science since 1960. As an independent and nonprofit organization we have helped farmers boost their rice production through improved rice varieties and other technologies.

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- cultural diversity and gender consciousness
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