COURSE SCHEDULE



Rice: Research to Production Course

20 May - 7 June 2013







Rice: Research to Production

20 May - 7 June 2013 Sparrow Room, MSS Hall, Training Center

Course Description:

Participants will be able to get their feet wet in the rice paddies of Asia and to know how rice is connected to the international community.

The 3-week course aims to create a new generation of plant scientists that are well networked into the international community and understand the importance of innovative plant science in addressing global problems. The course will enable the participants to:

- understand the basics of rice production with field visits to the main rice production region in the Philippines;
- be familiar with the germplasm collection at IRRI and current issues related to germplasm exchange and property rights;
- appreciate the research issues of IRRI and its development partners;
- acquire hands-on skills relating to rice breeding, molecular genetic, and genomics;
- understand how to structure effective international collaborations, and
- plan and personal contacts to work effectively as part of the international research community in the future.

Schedule of Activities

2013 Basic Rice Production Course

Date/Time	Topic/ Activity	Resource Person/s, Facilitator
Day 1, 20 M	lay (Monday)	
0800	Registration of Participants	J Montes M Montecillo
0830	Opening Program and Course Overvie	w N Magor H Leung M Thomson
0915	Briefing: Administrative, Financial Matters and Course Evaluation	A Maningas E Castro Jr
1015	Coffee break	
1030	Getting to Know the Participants (1/4)	Participants (8)
1200	Lunch break	
1300	Interactive Lecture: Long Term Trends in Rice Demands and Supply	S Mohanty
1415	Lecture: The Rice Growing Environment	R Buresh
1515	Coffee break	
1530	Harvesting your interest and project p	llan N Magor M Thomson H Leung
1630	Tour: IRRI facilities and local communities	E Castro Jr

Date/Time	Topic/ Activity	Resource Person/s, Facilitator	Date/Time	Topic/ Activity	Resource Person/s, Facilitator
Day 2, 21 N	lay (Tuesday)		Day 3, 22 N	lay (Wednesday)	
0800	Briefing and Field: Land Preparation and Leveling	L Vial	0800	Briefing and field practicum: Methods of Planting Rice (Transplanting and Direct Seedling)	L Vial E Castro Jr
	Field Practicum:	E Castro Jr			
	Land Preparation and Leveling	L Vial	1015	Coffee break	
1015	Coffee break		1030	Discussion:	
				RiceCheck as practiced in Australia	L Vial
1030	Land Preparation and Leveling (cont'n)	E Castro Jr L Vial		and Challenges	
				Bringing Farmers to Fore	N Magor
1200	Lunch break				
1000			1200	Lunch break	
1300	Physiology of the Rice Plant and	M Dingkuhn	4000		5.6 1 111 11 11
	Growth Stages with lab visit for discussion	on MR Laza	1300	Interactive Lecture:	R Sackville-Hamilton
1430	Introduction to Plant Breeding 101	B Collard		Conserving the Diversity of Rice & the GeneBank	F Hay
1515	Coffee break			Laboratory visit:	
				The IRRI GeneBank	
1530	Discussion:	K Nelson			
	RKB and Rice Doctor	N Wunderlich	1430	Modern Plant Breeding Techniques	B Collard
1615	Getting to Know the Participants (2/4)	Participants (8)	1515	Coffee break	
1830	Welcome Dinner		1530	Community Seed in Unfavorable Ecosystem	D Manzanilla

1630

Getting to Know the Participants (3/4)

Participants (8)

Date/Time	Topic/ Activity	Resource Person/s, Facilitator	Date/Time	Topic/ Activity	Resource Person/s, Facilitator
Day 4, 23 M	lay (Thursday)		Day 5, 24 M	lay (Friday)	
0800	Getting to Know the Participants (4/4)	Participants (5)	0800	Rice Post – harvest Management and Markets	M Gummert C Cabardo
0830	Laboratory visit: Wild Rice Management	K Jena		Ç	E Castro Jr
0930	Rice and Global Climate	B Sander	0945	Coffee break	
1015	Coffee break	b Sander	1000	Rice Post – harvest Management (cont'n)	M Gummert C Cabardo E Castro Jr
1030	Discussion: Career Journey	M Thomson N Magor H Leung	1100	Laboratory exercise: Pollination	J Carandang
1200	Lunch break		1200	Lunch break	
1300	Farmer Village Visit: preparation	A Salahuddin	1300	Discussion: Rice Diseases and Its Management	NV Cruz
1345	Discussion: Challenges of Weed Management in Rich	J Janiya ce	1400	Discussion and Laboratory Visit: C4	P Quick
1445	Coffee break		1515	Coffee break	
1500	Discussion: Challenges and Transformation from Transplanted to Direct Seeded – (including weeds)	D Johnson	1530	Discussion and Laboratory Visit: Transgenic Research and Product Development	I Slamet-Loedin
1600	Laboratory exercise: Panicle Emasculation	J Carandang A Pamplona	1630	Briefing 2: Saturday Trip	E Castro Jr
			Day 6, 25 M	lay (Saturday)	
			0730	Socio-educational tour with scientists	s in Batangas

Date/Time	Topic/ Activity	Resource Person/s, Facilitator	Date/Time	Topic/ Activity	Resource Person/s, Facilitator
Day 7, 26 N	1ay (Sunday)		Day 9, 28 M	lay (Tuesday)	
0700	Continuation of socio-educational tour		0800	Interactive Lecture: INGER and Germplasm Exchange	E Redoña
1600	Return to IRRI		0900	Discussion and Laboratory Eversion	A Decumposion
1830	Arrive at IRRI		0900	Discussion and Laboratory Exercise: Quality – the true test of rice	A Resurreccion
Day 8 27 M	lav (Manday)		1000	Coffee break	
0800	<i>lay (Monday)</i> Briefing on Project (1/5)	Participants	1015	Quality Rice (cont'n)	A Resurreccion RP Cuevas
0900	Water - the valuable and scarce input in rice	R Cabangon L Humphreys			C Llorente L Quiatchon
1015	Coffee break		1200	Lunch break	
1030	Lecture: Exploring the Genetic Diversity of Rice	K McNally	1300	Discussion: Current Status of Nutrition Rice	G Barry
	Through SNP Markers and Next-General Sequencing	ion	1500	Coffee break	
1200	Lunch break		1515	Write up report on Village visit	A Salahuddin
1300	Discussion forum:	N Magor E Nissila	Day 10, 29	May (Wednesday)	
	Private-public partnerships IRRI in a changing world	F Xie	0800	Genomics Application: Introduction and Lab exercise at the	M Thomson M Reveche
	Public, private, and civil agenciesHybrid rice consortium			Molecular Marker Applications Lab (MM	AL)
4500			1000	Coffee break	
1500	Coffee break		1015	Laboratory exercise:	M Reveche
1515	Village Exercise	A Salahuddin		Molecular Marker	
			1000		

Lunch break

1200

Date/Time	Topic/ Activity	Resource Person/s, Facilitator	Date/Time	Topic/ Activity	Resource Person, Facilitator
Day 10, 29 I	May (Wednesday)		Day 11, 30	May (Thursday)	
1300	Discussion: Genomics: Breeding Applications	M Thomson E Septiningsih	1545	Participants prepare for trip to Ifugao	E Castro Jr
1430	Coffee break		Day 12, 31	May (Friday)	
1445	Sustainable Production Framework	S Beebout	0430	Socio-Educational Tour: Philippine Rice Research Institute (Phi	lRice), Nueva Ecija
1600	Consultation/Project Working Time (2/5) May (Thursday)	5)	1030	Orientation: • Research activities/facilities • Collaborations/partnerships	
0800	Building Women Leadership in Agriculture R&D – the IRRI experience with partners	T Paris	1300	Travel to Banawe, Ifugao	
			Day 13, 1 Ju	ine (Saturday)	
0900	Panel Discussion: The People Factor in Development	N Magor T Paris P Shankar A Salahuddin	0800	Socio-Educational Tour: Ifugao Provincial Agriculturist / Banawe Rice Terraces / Ifugao Farmer	rs
1015	Coffee break		Day 14 2 li	ine (Sunday)	
1030	Consultation/Project Working Time (3/5	5)	0830	Socio-Educational Tour (cont'd)	
1130	Lunch with the Director General	B Zeigler Participants	1300	Travel to Nueva Ecija	
1300	IRRI Seminar				
1430	Rice Survivor session	V Pede S Beebout K Nelson N Wunderlich			

Resource Person/s, Facilitator

1530

Coffee break

Date/Time	Topic/ Activity	Resource Person/s, Facilitator	Date/Time	Topic/ Activity	Resource Person/s, Facilitator
Day 15, 3 Ju	ıne (Monday)		Day 17, 5 Ju	ne (Wednesday)	
0800	PhilRice Visit:		0800	Lecture and field visit:	R Buresh
	 Partnership with IRRI: research and development and joint activities 	R Miranda	0900	Integrated Nutrient Management (INM Discussion and Exercise:	R Buresh
	• Pinoy RKB: Uplands and food self-sufficiency:	L Abaoag	0900	Nutrient Management Practices	K buresii
1200	Lunch break		1000	Coffee break	
1330	Travel back to Manila		1015	Extension of Nutrient Management: Mobile phone devices	R Buresh
Dav 16. 4 Ju	ıne (Tuesday)		1200	Lunch break	
_ u, _ u, . u	(1315	Discussion:	P Gonzales
0800	Rest Period			Seed Health Testing at IRRI	C Huelma
0900	Discussion: Rodents and Its Management	G Singleton	1515	Coffee break	
1015	Coffee break		1530	Seed Health (cont'n)	P Gonzales C Huelma
1030	Panel Discussion: Partnerships and impact: CURE, STRASA CSISA, and ADB project for postharvest	_	1600	Consultation/Project working time (5/5	5)
1200	Lunch break		Day 18, 6 Ju	ne (Thursday)	
1300	Green Revolution: Pest Threats Return - Role of ecological engineering	KL Heong	0815	Special Seminar Workshop: Drought Breeding, Physiology and Gene Discovery – Team approach	A Kumar A Henry
1400	Digital Green innovations in extension - IRRI's pilot experience	P Shankar	0900	GIS: Mapping traits and pest management etc	A Nelson
1500	Coffee break		1015	Coffee break	
1515	Consultation/Project working time (4/5)	1030	Panel discussion: Young researchers	A Henry

Date/Time	Topic/ Activity	Facilitator		
Day 18, 6 June (Thursday)				
1200	Lunch break			
1300	Business planning for small and mediu enterprises	ım A Schmidley		
1430	Mini-workshop: Communication	S Clayton		
1530	Coffee break			
1545	Participants prepare for the Group Project presentation			
Day 19, 7 Ju	ne (Friday)			
0800	Participants prepare for the Group Propresentation	pject		
0830	Group Project presentation	M Thomson N Magor S McCouch		
1000	Coffee break			
1015	Project presentation (cont'n)			
1200	Lunch break			
1330	Course Evaluation			
1400	Closing Program			
1500	Coffee break			
1900	Farewell Dinner			

Topic/ Activity

Date/Time

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Resource Person/s.

Participants

Australia

David Gale, PhD Student, Charles Sturt University

Bangladesh

Hirendra Barman, *Senior Scientific Officer*, Plant Physiology Division, Bangladesh Rice Research Institute (BRRI)

Selima Zahan, Senior Scientific Officer, Agronomy Division, BRRI

India

Vipin Kumar, Consultant, IRRI India

Pratibha Kumari, Manager, IRRI India

Ananda Ramaiah, *Scientist - Agronomy*, All India Coordinated Research Project, Agriculture Research Station

Swetapadma Satpathy, Extension Agronomist, IRRI India

Indonesia

Ratna Dewi, Junior Researcher – Pest and Diseases Protection , Indonesian Centre for Rice Research (ICRR)

Gagad Pratiwi, Junior Researcher – Agronomy, ICRR

Mozambique

Andre Macuacua, Researcher, IRRI Mozambique

Philippines

Jesus Cabrera, *Agricultural Technologist*, Office of the Municipal Agriculturist

Kris Royd Caburnay, Agricultural Technologist, Local Government Unit of BanayBanay Province of Davao Oriental

Eric Reynoso, Senior Manager, IRRI

Participants

Sri Lanka

Buddhima Kariyawasam, PhD Student, Australian National University

Sudan

Omer Mohammed, *Extensionist*, Rice Promotion Unit, Ministry of Agriculture, Animal Wealth and Natural Resources

Thailand

Kiattisak Kerdsuk, Agricultural Extensionist, Phitsanulok Rice Seed Center

Patcharaporn Rakchum, *Research Officer*, Sakon Nakhon Rice Research Center

United Kingdom

Chris Boursnell, Research Assistant, University of Cambridge

Philip Kear, PhD Student, Cornell University

United States

Patrick Bell, MS Student, Oklahoma State University

Alexis Erwin, PhD Student, Cornell University

Carl Jensen, MS Student, University of California

Emilie Kirk, MS Student, University of California

Jehiel Oliver, PhD Student, Cornell University

Brian Pfeiffer, MS Student, Texas A&M University

Haley Sater, MS Student, University of Arkansas

Maegen Simmonds, PhD Student, University of California

Hans Spalholz, MS Student, University of Arizona

Jennifer Spindel, PhD Student, Cornell University



Gerard BarryProduct Team Leader
Healthier Rice Varieties



Sarah Beebout
Scientist, Soil Chemist
Crop and Environmental Sciences Division (CESD), IRRI



Roland Buresh Principal Scientist CESD, IRRI



Romeo Cabangon Associate Scientist CESD, IRRI



Christopher CabardoAssistant Scientist
CESD, IRRI



Jerome Carandang
Assistant Scientist
Plant Breeding, Genetics and Biotechnology Division (PBGB), IRRI



Sophie Clayton *Manager*Public Relations, IRRI

Resource Persons



Bertrand Collard *Scientist, Irrigated Breeder* PBGB, IRRI



Rosa Paula Cuevas *Post-doctoral Fellow and Grain Quality Specialist* PBGB, IRRI



Michael Dingkuhn Senior Scientist II CESD, IRRI



Patria Gonzales Manager Seed Health Unit (SHU), IRRI



Martin Gummert Senior Scientist CESD, IRRI



Fiona Hay
Scientist
T.T. Chang Genetic Resources Center (TTC-GRC), IRRI



Amelia Henry Scientist CESD, IRRI



Kong Luen Heong Senior Scientist CESD, IRRI



Carlos Huelma Assistant Scientist SHU, IRRI



Elizabeth Humphreys Senior Scientist, Water Management Specialist CESD, IRRI



Joel Janiya Senior Associate Scientist, Extension Agronomist CESD, IRRI



Kshirod Jena Senior Scientist II, Plant Breeder PBGB, IRRI



David Johnson *Weed Scientist and Head*CESD, IRRI



Arvind Kumar Senior Scientist, Drought Stress Breeding PBGB, IRRI

Resource Persons



Ma. Rebecca Laza Senior Research Manager CESD, IRRI



Cindy LlorenteResearcher
Grain Quality and Nutrition Center (GQNC), IRRI



Digna ManzanillaScientist (Social Sciences), Associate CURE Coordinator
Consortium for Unfavorable Rice Environments (CURE), IRRI



Kenneth McNally Senior Scientist, Computational Biology/Molecular Genetics TTC-GRC, IRRI



Samarendu Mohanty
Program 5 Leader and Head
Social Sciences Division (SSD), IRRI



Andy NelsonSenior Scientist, Geographer and Head of GIS Lab
SSD, IRRI



Katie Nelson Consultant Training Center (TC), IRRI



Eero Nissila *Head* PBGB, IRRI



Alvaro Pamplona *Senior Research Manager* PBGB, IRRI



Thelma Paris *Senior Scientist, Gender Issues*SSD, IRRI



Valerien Pede *Scientist, Agricultural Economist* SSD, IRRI



Lenie Quiatchon-BaezaAssistant Scientist
GQNC, IRRI



William Paul Quick Principal Scientist CESD, IRRI



Edilberto Redoña Senior Scientist Plant Breeding; Coordinator, INGER PBGB, IRRI

Resource Persons



Adoracion Resurreccion Associate Scientist GQNC, IRRI



Maria Ymber Reveche Assistant Scientist PBGB, IRRI



Ruaraidh Sackville Hamilton Senior Scientist, Evolutionary Biology and Head TTC-GRC, IRRI



Ahmad Salahuddin Consultant TC, IRRI



Bjoern Ole Sander *Collaborative Research Scientist*CESD, IRRI



Alfred Schmidley Scientist CESD, IRRI



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Scientist, Molecular Genetics – Flooding Trait Development
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Poornima Shankar Knowledge Management Coordinator Training Center, IRRI India



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Scientist, Molecular Genetics and Marker Applications
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Casiana Vera Cruz Senior Scientist PBGB, IRRI



Leigh Vial *Head*Experiment Station, IRRI



Nicola Wunderlich Consultant TC, IRRI



Fangming Xie Senior Scientist, Hybrid Rice Breeding PBGB, IRRI

Course Coordinators



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Dr. Susan McCouchProfessor

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Dr. Hei LeungPrincipal Scientist
Crop and Environmental Sciences Division, IRRI



Dr. Michael ThomsonScientist
Molecular Genetics and Marker Applications
Plant Breeding, Genetics and Biotechnology
Division, IRRI



Engr. Eugenio C. Castro, Jr.
Senior Research Manager/ Course Co-Coordinator
TC, IRRI

Training Team



Dr. Noel P. Magor *Course Coordinator and Head*Training Center (TC), IRRI



Engr. Eugenio C. Castro, Jr. Course Co-Coordinator/ Senior Research Manager TC, IRRI



Maria Angeli G. Maghuyop Senior Specialist - Training Course Coordination TC, IRRI



Ma. Socorro S. Arboleda *Course Co-facilitator Senior Specialist - Training*TC, IRRI



Anilyn D. Maningas Assistant Manager II Scholars' Program, TC, IRRI

Training Team



Melanie Quinto *Officer, Administrative Coordination* TC, IRRI



Josemaria D. Montes Course Secretary TC, IRRI



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Contacts

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For further information, please contact

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