

PUBLICATIONS AND SEMINARS IN 2006

Journal articles (refereed)

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- Ismail AM. 2006. Germplasm and natural resource management for enhanced rice production in flood-prone agroecosystems. Presented at ICFORD, Bogor, Indonesia, 24 Aug.
- Peng S. 2006. How to write and publish a SCI paper. Presented at Huazhong Agricultural University, Wuhan, China, 31 May.
- Peng S. 2006. Prospects for genetic improvement to increase lowland rice yields with less water and nitrogen. Presented at the Anhui Academy of Agricultural Sciences, Hefei, China, 29 Aug.
- Peng S. 2006. Recent advancement and hot topics of IRRI's research. Presented at Chiayi University, Chiayi, Taiwan, 19 Apr.
- Tuong TP. 2006. Combating water scarcity and environment degradation: real time N management in water-saving irrigation of rice. Presented at the Honam Agricultural Research Institute, 28 Apr.

Others

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Seminars

- Barry G. 2006. Advances in the development of biofortified rice. Presented at the Progress on the Development of Golden Rice and other Biofortified Rice Seminar, 14 Jul, National University of Singapore, Singapore.

Thursday rice research seminars (<http://Bulletin.irri.cgiar.org>)

- Effects of consuming biofortified rice on human iron status: the facts behind the trends. Dr. Angelina Felix, Institute of Human Nutrition and Food, College of Human Ecology, University of the Philippines Los Baños. The IRRI-CIMMYT Crop Research Informatics Lab. Dr. Graham McLaren.
- Targets and priorities for biodiversity conservation in natural and agricultural landscapes. Dr. Thomas Brooks, The Conservation Synthesis Department, Center for Applied Biodiversity, Science Conservation International.
- Surprising consequences of putting architecture into crop models: developmental biology provides concepts for

- enhancing crop growth. Dr. Michael Dingkuhn, French Agricultural Research Centre for International Development (CIRAD), France.
- IRRI information products as global public goods. Dr. Thomas Metz.
- Simulation of plant breeding programs. Prof. Ian DeLacy, School of Land and Food Sciences, University of Queensland.
- Isolation of agriculturally important genes and their utilization for rice breeding. Dr. Moto Ashikari, BioScience and Biotechnology Center, Nagoya University, Japan.
- Insect immune defenses. Dr. Norman A. Ratcliffe, personal chair, University of Wales, Swansea, UK.
- The Australian rice industry: a grower's perspective. Dr. Leigh Vial, Australian rice farmer.
- Applications of thermal imaging in plant stress physiology. Prof. Hamlyn Jones, University of Dundee, Scotland.
- Transgenic breeding for biotic and abiotic stresses: the Indonesian experience. Dr. Inez H. Slamet-Loedin.
- IRRI's strategic plan for 2007-2015: what we did and what we produced. Dr. Robert S. Zeigler.
- QA at IRRI: reflections and directions. Dr. Edgar F. Paski, British Columbia Institute of Technology, Burnaby, B.C., Canada.
- Green Revolution in the mountains of Vietnam: old or new recipes. Dr. Francois Affholder, agronomist/Cropping System Diagnosis and Modelling SAM, VASI-NOMARC/IRRI/CIRAD/IRAD Project.
- The role of the general public in national development—why a country needs good citizens. Atty. Alexander Lacson, MALCOLM Law Office, Makati, Metro Manila.
- Genomic approach for the improvement of water and nutrient use efficiency in rice. Dr. Huixia Shou, College of Life Science, Zhejiang University, China.
- Yield gaps in irrigated rice: experiences from long-term experiments and implications for future research. Dr. Roland J. Buresh.
- ALARM—a system to assess risks to biodiversity loss. Dr. Josef Settele, UFZ, Centre for Environmental Research, Germany.
- Improving performance in water-limited environments—maintenance of growth under stress. Dr. Jill Cairns.
- Submerged at IRRI: development of water-proof rice. Dr. David J. Mackill.
- The BiOS Initiative: biological open source; patent transparency and distributive innovation for the future of agricultural research. Dr. Richard Jefferson, CEO, CAMBIA, Australia.
- Breeding rice cultivars for water-limited environments: progress and prospects. Dr. Gary Atlin.
- Ecosystem services as a framework for agriculture and resource management. Dr. Steven Cork, EcoInsights, Canberra, Australia.
- Submergence tolerance: physiology of water-proof rice. Dr. Abdel Ismail.
- Submergence tolerance: molecular mechanisms in water-proof rice. Dr. Sigrid Heuer.

Division seminars

Crop and Environmental Sciences

- Phenotyping with plant/crop growth models—new needs for new scientific challenges: case of Ecomeristem model. Dr. Delphine Luquet, CIRAD, France.
- Possibility of abiotic factors on the gradual yield decline under continuous aerobic rice cropping system. Dr. Yuka Sasaki, Faculty of Agriculture, Yamagata University, Japan.
- Nitrogen cycle in a tropical watershed with predominant land use of paddy field. Dr. Sho Shiozawa, Department of Biological and Environmental Engineering, Graduate School of Agriculture and Life Sciences, The University of Tokyo, Japan.
- Yield performance of hybrid and NPT rice varieties. Dr. Woon-Ho Yang.
- Recent research in rice-based cropping systems in India: aerobic rice, SSNM, rice-maize and more. Dr. S.K. Sharma, Project Directorate of Cropping Systems Research, India.
- Rice resistance to insect pests: old challenges and new directions. Dr. Yolanda Chen.
- Update on IRRI-CIMMYT Alliance for rice-maize production systems. Dr. Roland Buresh.
- Drought resistance in rice: insights toward an integrated crop improvement strategy. Dr. Rachid Serraj.
- Lodging characteristics and crop management for improving lodging resistance of hybrid rice. Mr. Md Sirajul Islam.
- Effect of blue green algae (*Nostoc* sp.) on soil characteristics, plant growth, and nutrient uptake. Mr. Shohei Obana, Chiba University, Japan.
- Methane production and community structure of methanogenic archae in Indonesian paddy soil. Mr. Tsubasa Shimonishi, Chiba University, Japan.
- Cotton resistance to bacterial blight. Dr. Michel Nicole, Research Unit—Plant Resistance to Pathogens, Institut de recherche pour le développement, Montpellier, France.
- Yield failure of aerobic rice and the possible role of root-knot nematodes and fungal pathogens. Dr. Christine Kreye.

Rice nematodes: fundamentals and recent advances. Dr. Georges Reversat.

Entomology and Plant Pathology

IPM in rice mixtures and rice-vegetable cropping systems. Dr. Karen Garrett, Kansas State University, USA.

Plant Breeding, Genetics, and Biotechnology

QTL mapping and identification of beneficial alleles from *Oryza rufipogon*. Dr. Endang Septiningsih.

Evolution of rice invertase gene family and its regulation under drought stress. Dr. Xuemei Ji.

A rice gene activation/knockout mutant library and its utilization in breeding. Dr. Yue-le Hsing, Academia Sinica, Taiwan.

A tour from mapping QTLs, comparative genomics, artificial micro RNAs and back. Dr. Norman Warthmann, Max Planck Institute, Germany.

Biotechnological strategies to manipulate micronutrients in rice. Dr. Susanna Poletti, ETH Zurich, Switzerland.

Detecting useful QTLs quickly and cheaply. Dr. Gary Atlin.

Breeding rice for drought tolerance: response to selection and QTL identification. Dr. Arvind Kumar.

Marker-assisted salinity tolerance breeding: validation of *Saltol* QTL in rice. Mr. Rafiqul Islam.

Mapping QTLs for cold tolerance in rice. Dr. Hee-Jong Koh, Seoul National University, Korea.

Rice LTR retrotransposons: their impact on genome structure, expression, and evolution. Dr. Olivier Panaud, University of Perpignan, France.

Breeding for yield under drought stress in rice: response to selection and allele effects. Dr. Venuprasad Ramaiah.

Transbacker: open source gene transfer technology in rice.

Mr. Richard Jefferson, CEO, CAMBIA, Australia.

Molecular understanding of drought responses in rice. Dr. Muthurajan Raveendran.

Genetic studies for resistance to green rice leafhopper

(*Nephotettix cincticeps* Uhler) in rice. Dr. Daisuke Fujita.

Transgenic approaches for enhancing nutritional quality of rice. Dr. Gerard Barry.

Social Sciences

Channels of agricultural innovations within a structured space. Dr. Florencia Palis.

Project research evaluation and impact assessment: the dream model. Dr. Deborah Templeton and Ms. Lorena Villano.

Trends of poverty in rural Bangladesh, 1988-2004: Objective estimates and people's perception. Dr. Mahabub Hossain.

New wine in an old bottle. Dr. Monina Escalada.

Transforming research to benefit millions: the case of the Three Reductions–Three Gains Program in Vietnam. Dr. K.L. Heong.

Impact of micro-credit on the livelihood of the poor: the case of the Center for Agriculture and Rural Development (CARD) in the Philippines. Ms. Mary Charlotte Hanley, World Food Prize intern, Xavier High School, Iowa.