

International Symposium on Quantitative Ecology & 2nd Taiwan-Japan Ecology Workshop

October 09 – 11, 2009
National Taiwan University
Taipei, Taiwan

October 09th: 9:00 a.m. – 5:00 p.m., followed by an evening reception which is tentatively scheduled to begin at 7:00 p.m.

October 10th: 9:00 a.m. – 5:00 p.m.

October 11th: 9:00 a.m. – 12:00 noon.

Organized by:



Center for Tropical Ecology and Biodiversity, Tunghai University



Department of Life Science, Tunghai University



Institute of Oceanography, National Taiwan University



Institute of Statistics, National Tsing Hua University

Sponsored by:



National Science Council



Tai Ta Mathematical Center, College of Science, National Taiwan University

Schedule of symposium talks

(Conference Center in the Department of Physics (room 104) –National Taiwan University)

Friday, October 9, 2009

Time	Speaker	Presentation Title
8:30 – 9:00 a.m.	REGISTRATION	

9:00 – 9:10 a.m.	Ling-Yun Chiao National Taiwan University, Taiwan	Introductory and welcome remarks
9:10 – 10:00 a.m.	Nicholas Gotelli University of Vermont, USA	Transition matrix Models for metacommunities of ground-foraging ants and treehole mosquitoes
10:00 – 10:30 a.m.	COFFEE BREAK (with snacks) and group picture	
<i>Chair:</i>	<i>I Fang Sun</i>	
10:30 – 11:00 a.m.	Joe Yuichiro Wakano Meiji University, Japan	Spatial dynamics of ecological public goods
11:00 – 11:30 a.m.	Anne Chao National Tsing Hua University, Taiwan	The estimation of species and shared species richness under sampling without replacement
11:30 – 12:00 a.m.	Hiroyuki Matsuda Yokohama National University, Japan	Extinction risk assessment of Japanese vascular plants and hotspot analysis

12:00 – 1:30 p.m	LUNCH (Traditional Taiwanese Box Lunch)	Poster presentation

<i>Chair:</i>	<i>Takeshi Miki</i>	
1:30 – 2:00 p.m.	Seven Chen Academia Sinica, Taiwan	Reduction of food web robustness by parasitism
2:00 – 2:30 p.m.	Gaku Takimoto Toho University, Japan	Ecosystem size, but not disturbance, determines food-chain length on islands of the Bahamas
2:30 – 3:00 p.m.	Hsing-Juh Lin National Chung-Hsing University, Taiwan	Effects of short-term sedimentation on competitive interactions between a hard coral, a green alga, and a sea anemone
3:00 – 4:00 p.m.	COFFEE BREAK (with snacks)	Poster presentation

Friday, October 9, 2009 cont'd

Time	Speaker	Presentation Title
<i>Chair:</i>	<i>Tsung-Jen Shen</i>	
4:00 – 4:30 p.m.	Ying-Jing Cherry Chen National Taiwan University, Taiwan	Factors controlling the succession of dominant phytoplankton in Techu Reservoir, Taiwan
4:30 – 5:00 p.m.	Wei-Chung Liu Academia Sinica, Taiwan	Quantifying the topological importance of species in directed and signed networks
7:00 p.m.	GALA RECEPTION (location to be announced)	

Saturday, October 10, 2009

Time	Speaker	Presentation Title
<i>chair:</i>	<i>Chih-hao Hsieh</i>	
9:00 – 09:50 a.m.	Wen Hsiung Li Academia Sinica, Taiwan	How I keep up with rapid developments in my field of research
9:50 – 10:20 a.m.	Takefumi Nakazawa National Taiwan University, Taiwan	Ontogenetic niche shift, food-web coupling and alternative stable states
10:20 – 10:40 a.m.	COFFEE BREAK (with snacks)	
		Poster presentation
<i>chair:</i>	<i>Akiko Satake</i>	
10:40 – 11:10 a.m.	Sze-Bi Hsu National Tsing Hua University, Taiwan	Concentration phenomena for phytoplankton in lakes and ocean
11:10 – 11:40 a.m.	Kohei Yoshiyama University of Tokyo, Japan	What size should phytoplankton be? Optimal cell size in resource competition
11:40 – 12:10 a.m.	Tsung-Jen Shen National Chung-Hsing University, Taiwan	Estimating the number of species with quadrats sampled without replacement
12:10 – 1:30 p.m.	LUNCH (Traditional Taiwanese Box Lunch)	
		Poster presentation

Saturday, October 10, 2009 cont'd

Time	Speaker	Presentation Title
Chair:	Takefumi Nakazawa	
1:30 – 2:00 p.m.	I-Fang Sun Tunghai University, Taiwan	Short term dynamics of a subtropical monsoon forest in southern Taiwan
2:00 – 2:30 p.m.	Takeshi Miki National Taiwan University, Taiwan	Spatio-temporal dynamics of prokaryotic community and its impacts on carbon fluxes in the surface ocean: theoretical approach
2:30 – 3:00 p.m.	Toshiyuki Namba Osaka Prefecture University, Japan	Effects of palatable and unpalatable plants on deer population dynamics
3:00 – 4:00 p.m.	COFFEE BREAK (with snacks)	
Chair:	Seven Chen	
4:00 – 4:30 p.m.	Yu Yun Chen National Tsing Hua University, Taiwan	Synchronized reproduction promotes species coexistence through reproductive facilitation
4:30 – 5:00 p.m.	Takehito Yoshida University of Tokyo, Japan	Eco-evolutionary dynamics of predator-prey systems: theory and empirical tests

Sunday, October 11, 2009

Time	Speaker	Presentation Title
Chair:	Takehito Yoshida	
9:00 – 9:50 a.m.	Jotaro Urabe Tohoku University, Japan	Stoichiometric and portfolio effects of rising CO ₂ on aquatic herbivores: an experimental study
9:50 – 10:20 a.m.	Pei-Fen Lee National Taiwan University, Taiwan	Designing conservation strategies for a vulnerable avian species (<i>Pitta nympha</i>) by species predictive modeling
10:20 – 10:40 a.m.	COFFEE BREAK (with snacks)	
Chair:	Yu Yun Chen	
10:40 – 11:10 a.m.	Sami Souissi Université Lille1 Sciences et Technologies, France	Spatial and temporal multivariate patterns evidenced by combining multivariate classification and the Bayesian approaches

Sunday, October 11, 2009 cont'd

<u>Time</u>	<u>Speaker</u>	<u>Presentation Title</u>
11:10 – 11:40 a.m.	Chih-hao Hsieh National Taiwan University, Taiwan	Spatial heterogeneity of microbial community and diversity is determined by digestive functions in guts of leave-eating small mammals
11:40 a.m.	I-Fang Sun Tunghai University, Taiwan	Closing remarks