



NCTS Math. Division
4th Floor, 3rd General Building,
National Tsing Hua University
No. 101 sec 2, Kuang Fu Rd.,
Hsinchu 300, Taiwan

Mathematical Biology

Topical Program in Mathematical Biology (Jan. 1,2006-June 16,2006),

Organizer Sze-Bi Hsu (Tsing-Hua University)

In the past six months, we held the following activities:

(1) Workshop of Mathematical Models and problems in Cell Motility and Tumor Growth, Jan. 11-19,2006. Roger Lui (Worcester Polytechnic Institute) and I organized the workshop. There were two parts of the workshop:

(I) Workshop on Mathematical Models and Problems in Cell Motility, Jan. 11-14

Principal speakers:

Alex Mogilner (University of California, Davis)

Hans Othmer (University of Minnesota)

Invited speakers:

Chi-Hung Lin (Institute of Microbiology and Immunology, National Yang Ming University)

Y.S.Choi (University of Connecticut)

Roger Lui (Worcester Polytechnic Institute)

(II) Workshop on Mathematical Models and Problems in Tumor Growth and Angiogenesis, Jan.16-19

Principal Speakers:

Mark Chaplain (University of Dundee)

John Lowengrub (University of California, Irvine)

Invited speakers:

Jia-Ling Yang (Department of Life Science, Tsing-Hua University)

Steven McDougall (Heriot-Watt University)

Akisato Kubo (Fujita Health University)

(2) Workshop on Mathematical Modeling of Infectious Disease Epidemiology, organized by Ying-Heng Hsieh (Chung-Hsin University) and Sze-Bi Hsu

Invited speakers:

Fred Brauer (British Columbia, Canada)

John Glasser (CDC USA)



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2006/07 News letter

Stefan Ma (Ministry of Health of Singapore)

Steven Riley (Hong Kong University)

Jianhong Wu (Yorke University, Canada)

Ping Yan (Public Health Agency of Canada)

Sze-Bi Hsu (Tsing-Hua University)

Ying-Heng Hsieh (Chung-Hsin University)

(3) An Undergraduate Course in the Mathematical Theory of Molecular Evolution.

This is a regular ,one semester course supported by NCTS. The students are from mathematics . life science and computer science department.

The instructor is Dr. Yun-Huei Tszeng, Center of Genomics, Academia Sinica.

(4) Four interdisciplinary talks:

(i) Roger Lui (Worcester Polytechnic Institute)

Mathematical Theory of One-Dimensional Cell-Motility Model (Jan. 5/2006)

(ii) Je-Chiang Tsai (National Taiwan Ocean University)

On the Buffer Bistable System (March 30, 2006)

(iii) Steve Hubbell (Plant Biology, University of Georgia)

Advance in Neural Theory in Ecology, (April 12,2006)

(iv) Fan Sun (Tung-Hai University)

Seed Predation during General Flowering Events of Varying Magnitude in Malaysian Forest (May 5,2006)

In the near future, we plan to offer summer course “ Monotone Dynamical Systems and Its Application to Biology” in August 1-30.