

**WORKSHOP ON MATHEMATICAL MODELING
IN LIFE SCIENCES**

August 1-2, 2015,
Harbin Normal University
Harbin, China

PROGRAM

Main speakers:

Peter Bates (Michigan State University)
Steve Cantrell (The University of Miami)
Chris Cosner (The University of Miami)
Philip Maini (Oxford University)
Junping Shi (College of William and Mary)
Mingxin Wang (Harbin Institute of Technology)

Invited speakers:

Jian Fang (Harbin Institute of Technology)
Xiaoqing He (East China Normal University)
Xiulan Lai (Renmin University)
Ben Niu (Harbin Institute of Technology, Weihai)
Chuncheng Wang (Harbin Institute of Technology)
Feng-Bin Wang (Chang Gung University)

Financial support:

Harbin Normal University; Harbin Engineering University; Harbin Institute of Technology

Organizing committee:

Renhao Cui (Harbin Normal University and Renmin University)
Jian Fang (Harbin Institute of Technology)
Ping Liu (Harbin Normal University)
Junping Shi (College of William and Mary)
Ying Su (Harbin Institute of Technology)
Jinfeng Wang (Harbin Normal University)
Fengqi Yi (Harbin Engineering University)

Registration:

Friday, July 31, Mengxi Hotel, Harbin Normal University.

(报到时间地点: 7月31日10:00-18:00, 哈尔滨师范大学江北校区梦溪宾馆大厅)

There is no registration fee for invited speakers and participants from HNU, HEU and HIT. For other participants, the registration fee is 600RMB (for faculty members), and 400RMB (for students). Participants can stay in Mengxi Hotel.

Other information:

Lecture Hall: Science Technology Building No. 1, Room 337

Dining Hall: Mengxi Hotel (2nd floor) Beijing Room (August 1 Lunch Yunwu Room)

报告地点: 理工一号楼337报告厅

用餐地点: 梦溪宾馆2楼餐厅北京厅,其中8月1日午餐云雾厅

Saturday, August 1

No.	Time	Chairman	Speaker	Title
0	9:15-9:30	Yuwen Wang	Junping Shi, Wen Song	Opening remarks Group photo
1	9:30-10:15		Philip Maini	Modelling collective cell movement in biology
10:15-10:35 Tea Break				
2	10:35-11:20	Jian Fang	Steve Cantrell	Avoidance behavior in intraguild communities: A cross-diffusion model
3	11:20-11:50		Feng-Bin Wang	A dengue fever transmission model with crowding effects and spatial variations
12:00-14:30 Lunch				
4	14:30-15:15	Junping Shi	Peter Bates	The regulation of plasticity of organ growth in the insulin-signaling pathway
5	15:15-16:00		Mingxin Wang	Free boundary problems of the competition model with sign-changing coefficients in heterogeneous time-periodic environment
16:00-16:20 Tea Break				
6	16:20--16:50	Ping Liu	Xiaoqing He	Global dynamics of heterogeneous Lotka-Volterra competition-diffusion systems
7	16:50--17:20		Xiulan Lai	A diffusion model for evaluating the role of white-tailed deer in geographic spread of the blacklegged tick <i>Ixodes scapularis</i>
8	17:20-17:50		Chuncheng Wang	Spatiotemporal mutualistic model of mistletoes and birds
18:00 Dinner				

Sunday, August 2

No.	Time	Chairman	Speaker	Title
9	9:00-9:45	Mingxin Wang	Chris Cosner	The reduction principle, the ideal free distribution, and the evolution of dispersal strategies
10	9:45-10:30		Junping Shi	Modeling Chesapeake Bay oyster population
10:30-10:50 Tea Break				
11	10:50-11:20	Fengqi Yi	Ben Niu	Amplitude death and synchronization in a nonlocal delay-coupled system
12	11:20-11:50		Jian Fang	Can symmetric nonlocal interaction change the propagation direction of bistable traveling waves?
12:00 Lunch				

乘车路线：哈尔滨火车站(距离哈师大松北校区约 24 公里)，哈尔滨西站（即哈尔滨高铁站）(距离哈师大松北校区约 20 公里)，哈尔滨太平国际机场(距离哈师大松北校区约 50 公里)。

- 从哈尔滨火车站可乘 551 路公交汽车到“学院路”站下车，向后走 20 米左右即到哈尔滨师范大学侧门；进入校园步行 10 分钟左右即到梦溪宾馆。若从哈尔滨火车站乘出租车至哈尔滨师范大学江北校区（梦溪宾馆）需 50 元左右。
- 从哈尔滨西站（即哈尔滨高铁站）可乘 96 路公交汽车到“哈尔滨火车站”站下车，换乘 551 路公交汽车到“学院路”站下车，向后走 20 米左右即到哈尔滨师范大学侧门；或乘出租车 22 元左右可以到公路大桥，在公路大桥换乘 219 路公交汽车到“师范大学”，或在公路大桥乘 211 路，213 路公交汽车到“学院路”站下车，进入校园大门步行 10 分钟左右即到梦溪宾馆。若从哈尔滨西站乘出租车至哈尔滨师范大学江北校区（梦溪宾馆）需 60 元左右。
- 从机场乘坐机场大巴（20 元）到“哈尔滨火车站”下车，换乘 551 路公交汽车到“学院路”站下车，向后走 20 米左右即到哈尔滨师范大学侧门，进入校园大门步行 10 分钟左右即到梦溪宾馆。若从机场乘出租车至哈尔滨师范大学江北校区（梦溪宾馆）需 150 元左右。