

The Topical Conference on Nanophotonics (NANO)

May 26-29, 2008
Advance Photonics Center
Southeast University
Nanjing, P. R. China
Abstract Submission Deadline: February 26, 2008
Pre-Registration Deadline: March 26, 2008

To view information on the NANO Conference, please visit
<http://photontech.seu.edu.cn/OSAconference/index.html>.

Nanophotonics is an emerging multidisciplinary field that deals with optics on the nanoscale. NANO 2008 meeting's objective is to bring together international scientists and researchers interested in the recent developments in nanophotonics.

It will provide an international forum to present and discuss the state-of-the-art methods, materials, instrumentation and applications related to light-matter interactions on the nanometer scale. More specifically, the conference will discuss the recent developments and challenges in materials processing and synthesis, fabrication, design and modeling, characterization and applications of nanophotonics.

Key Deadlines:

Abstract Submission	Deadline: February 26, 2008
Abstract Acceptance Date	March 26, 2008
Notification of Acceptance	April 26, 2008
Symposium Proceedings	May 26-29, 2008

Nanophotonics is an emerging multidisciplinary field that deals with optics on the nanoscale. The objective of this topical meeting is to bring together international scientists and researchers interested in the recent developments in nanophotonics. The conference will discuss the recent developments and challenges in materials processing and synthesis, fabrication, design and modeling, characterization and applications of nanophotonics. The conference will hold on May 26-29, 2008 at New Century Hotel, Nanjing, China. We are waiting for your papers!

About Nanjing

Nanjing is an ancient city as well as a modern metropolis. The historical sights, memorials, museums and other cultural sights display the long history of the city and attract millions of visitors every year. Apart from that, Nanjing is developing rapidly and great changes are continuously taking place there.



Conference Topics of interest include, but are not limited to:

Materials and devices:

- Molecular architectures
- Semiconductors
- Plasmonics
- Photonic nanowires
- Photonic crystals
- Metamaterials
- Theory and modeling of nanophotonic devices
- Sources and detectors

Nanofabrication methods:

- Novel fabrication methods
- Nanoimprint technology
- Chemical growth
- Self assembly
- Laser direct writing
- Holographic interference lithography
- Etching techniques

Nanoscale imaging and characterization:

- Emerging nanoscale optical imaging schemes and applications
- Near-field optical microscope
- Plasmonic enhancement of resolving power
- Polarization signatures
- Optical superresolution
- Scientific and industrial research applications

Applications:

- Nonlinear optical phenomena in molecular and nano- material
- Luminescence in molecular and nano- materials
- Applications of advanced materials in Biomedical Optics
- Nano and micro- sensing

Conference Honorary Chairs

Paras N. Prasad (State University of New York at Buffalo, USA)
Bingkun Zhou (Chinese Optical Society, Tsinghua University, China)

Conference Co-chairs

Yiping Cui (Southeast University, China)
Joseph W. Haus (University of Dayton, USA)

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Hai Ming (USTC, China)
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Qiwen Zhan (University of Dayton, USA)
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Changhe Zhou (SIOFM- Chinese Academy of Sciences, China)
Shining Zhu (Nanjing University, China)

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Kiyoshi Asakawa (Tsukuba University, Japan)
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Qiming Wang (Institute of Semiconductor, Chinese Academy of Sciences, China)
Jingjun Xu (Nankai University, China)
Guozheng Yang (Institute of Physics, Chinese Academy of Sciences, China)

Invited Speakers

Keynote

Paras Prasad (State University of New York at Buffalo, USA)

Plenary speakers

1. Robert W. Boyd, University of Rochester, USA
2. Yeshaiahu Fainman, University of California San Diego, USA
3. Sailing He, Zhejiang University, China and Royal Institute of Technology, Sweden
4. Yidong Huang, Tsinghua University, China
5. Eli Yablonovitch, University of California at Berkeley, USA
6. Xiang Zhang, University of California at Berkeley, USA
7. Yongyuan Zhu, Nanjing University, China

Invited speakers

1. Hans Agren, Royal Institute of Technology, Sweden
2. Liang-Yao Chen, Fudan University, China
3. Jagadish Chennupati, Australian National University, Australia
4. Didier Felbacq, University of Montpellier, France
5. Qihuang Gong, Peking University, China
6. Guang S. He, State University of New York at Buffalo, USA
7. M.H. Hong, National University of Singapore, Singapore
8. Heonsu Jeon, Seoul National University, Korea
9. Malgosia Kaczmarek, Southampton University, UK
10. Satoshi Kawata, Osaka University, Japan
11. D. S. Kim, Seoul National University, Korea
12. James Leger, University of Minnesota, USA
13. A. Lewis, The Hebrew University of Jerusalem, Israel
14. X. G. Luo, The Institute of Optics and Electronics, CAS, China
15. Hiromi Okamoto, Institute for Molecular Science, Japan
16. Marek Samoc, Australian National University, Australia
17. Nelson Tabiryan, Beam Corporation, USA
18. Prabhat Verma, Osaka University, Japan

19. Claude Weisbuch, France and University of California at Santa Barbara, USA
20. Diederik Wiersma, University of Florence, Italy
21. Chunxiang Xu, Southeast University, China
22. Xianfan Xu, Purdue University, USA
23. A. Zayats, Queen's University Belfast, Ireland
24. Daozhong Zhang , Chinese Academy of Sciences (CAS), China
25. Changhe Zhou, SIOFM- Chinese Academy of Sciences, China

Short courses: Short courses are free to students.

1. Joseph Haus and Qiwen Zhan, University of Dayton, USA
2. Iam C. Khoo, The Pennsylvania State University, USA
3. James Leger, University of Minnesota, USA

**Program of
The OSA Topical Conference on
Nanophotonics'2008**

May 26-29, 2008, Nanjing, China



**Program of
The OSA Topical Conference on
Nanophotonics'2008**

May 26-29, 2008, Nanjing, Jiangsu, China

Sponsors:

The Optical Society of America

The Chinese Optical Society

The National Natural Science Foundation of China

Southeast University

University of Dayton

Program of Nano 2008

26-May-2008			
Time	Agenda		
Opening Ceremony And Keynote (Zheng Tian Hall, Fifth Floor of New Century Hotel)			
9:00-9:30	Welcome Speeches		Session Chair: Yiping cui, Southeast University
9:30-10:30	Keynote: Paras N. Prasad, State University of New York at Buffalo, USA		
10:30-10:45	Break		
Plenary Session I (Zheng Tian Hall, Fifth Floor of New Century Hotel)			
10:45-11:25	Plenary (I): Eli Yablonovitch, University of California at Berkeley, USA		Session Chair: Joseph W. Haus, University of Dayton, USA
11:25-12:05	Plenary (II): Yidong Huang, Tsinghua University		
12:05-13:05	Lunch (Century Hall, Third Floor of New Century Hotel)		
Parallel Session I			
	Photonic Crystals Session I (Jian Kang Hall, Fourth Floor of New Century Hotel) Session Chair: Sailing He	Nanofabrication Session I (Shang Yuan Hall, Fourth Floor of New Century Hotel) Session Chair: Changhe Zhou	Short Course Session I (Sheng Zhou Hall, Fourth Floor of New Century Hotel)
13:30-13:45	Invited (1): Claude Weisbuch, France and University of California at Santa Barbara, USA (13:30-14:00)	[Nano-08-044] Q. Z. Zhao, University Erlangen-Nuremberg, German	Short Course Title: Nanophotonics Joseph Haus and Qiwen Zhan, University of Dayton, USA (13:30-15:00)
13:45-14:00		[Nano-08-038] Qin Yan, Nanjing University of Science and Technology	
14:00-14:15	[Nano-08-008] Yi Hu, Nankai University	Invited(2): M.H. Hong, National University of Singapore, Singapore (14:00-14:30)	
14:15-14:30	[Nano-08-049] Wenle Weng, Nanjing University of Aeronautics and Astronautics		
14:30-14:45	[Nano-08-119] Peter E. Powers, University of Dayton, USA	[Nano-08-085] Bo Wang, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences	
14:45-15:00	[Nano-08-163] Jianlin Zhao, Northwestern Polytechnical University	[Nano-08-137] Haojie Zhang, Sun Yat-sen University	
15:00-15:15	[Nano-08-171] Zhi-Hong Zhu, Nanjing University	[Nano-08-099] Hailing Wang, Institute of Semiconductors, Chinese Academy of Sciences	
15:15-15:30	[Nano-08-086] Jiangjun Zheng, Shanghai Institute of Optics and Fine Mechanics	[Nano-08-006] Zong-Xiang Xu, The University of Hong Kong	
15:30-15:45	Break		

Parallel Session II			
	Quantum Dot Session I (Jian Kang Hall, Fourth Floor of New Century Hotel) Session Chair: Lan Fu	Nanofabrication Session II (Shang Yuan Hall, Fourth Floor of New Century Hotel) Session Chair: James Leger	Characterization Session I (Sheng Zhou Hall, Fourth Floor of New Century Hotel) Session Chair: Prabhat Verma
15:45-16:00	Invited (3): Guang S. He, State University of New York at Buffalo, USA(15:45-16:15)	[Nano-08-138] Chaoyi Wang, Sun Yat-sen University	[Nano-08-021] Jen-You Chu, Chutung, Hsinchu,
16:00-16:15		[Nano-08-199] Di Xu, University of Pittsburgh, USA	[Nano-08-040] Chia-Lung Tsai, National Changhua University
16:15-16:30	[Nano-08-051] Vinod Menon, The City University of New York (CUNY), USA	Invited(4): Changhe Zhou, SIOFM- Chinese Academy of Sciences(16:15-16:45)	[Nano-08-143] Fengfeng Yao, Harbin Institute of Technology
16:30-16:45	[Nano-08-079] Y.Z. Yao National Institute for Materials Science (NIMS), Japan		[Nano-08-152] S. S. Ng, Universiti Sains Malaysia, Malaysia
16:45-17:00	[Nano-08-125] K. Sakoda, National Institute for Materials Science, Japan	[Nano-08-236] Eungman Lee, Yonsei University, South Korea	Invited (5): A. Lewis, The Hebrew University of Jerusalem, Israel(16:45-17:15)
17:00-17:15	[Nano-08-195] Jaetae Seo, Hampton University, USA	[Nano-08-034] Su Shen, Soochow University	
17:15-17:30	[Nano-08-005] Haiyan Chen, China Pharmaceutical University	[Nano-08-144] Ming Zhou, Jiangsu University	[Nano-08-189] Huai-Yi Chen, Huafan University
17:30-17:45		[Nano-08-029] Ghulam Raza, Department of Microbiology Quaid-i-Azam University Islamabad Pakistan, Pakistan	[Nano-08-237] Mufei Xiao, Centro de Ciencias de la Materia Condensada Universidad Nacional Autonoma de Mexico, USA
18:30	Banquet (Century Hall, Third Floor of New Century Hotel)		
27-May- 2008			
Time	Agenda		
Plenary Session II (Zheng Tian Hall, Fifth Floor of New Century Hotel)			
8:30-9:10	Plenary (III): Robert W. Boyd, University of Rochester, USA		Session Chair: Qihuang Gong, Peking University
9:10-9:50	Plenary (IV): Yongyuan Zhu, Nanjing University		
9:50-10:05	Break		
Parallel Session III			
	Photonic Crystals Session II (Zheng Tian Hall, Fifth Floor of New Century Hotel) Session Chair: Kazuaki Sakoda		Plasmonics Session I (Jian Kang Hall, Fourth Floor of New Century Hotel) Session Chair: Yidong Huang
10:05-10:20	Invited (6): Diederik Wiersma, University of Florence, Italy (10:05-10:35)		Invited(7) A. Zayats, Queen's University Belfast, Ireland (10:05-10:35)
10:20-10:35			
10:35-10:50	[Nano-08-039] Tianrui Zhai, Beijing Normal University		[Nano-08-009] Yung-Chiang Lan, National Cheng Kung University

10:50-11:05	[Nano-08-159] Huaxiang Yi, Huazhong University of Science and Technology . .	[Nano-08-035] Jingyu Zhang, University of New Mexico, USA	
11:05-11:20	[Nano-08-192] Xianpeng Shen, China University of Mining & Technology	Invited(8) Lin Pang, University of California San Diego, USA (11:05-11:35)	
11:20-11:35	[Nano-08-208] Wenjie Lu, Shanghai Jiaotong University		
11:35-11:50	[Nano-08-166] Xuetao Gan, Peng Zhang, Sheng Liu, Fajun Xiao, Jianlin Zhao, Northwestern Polytechnical University	[Nano-08-027] Ruey-Lin Chern, National Taiwan University	
11:50-12:05	[Nano-08-110] Irina A. Khromova, Saratov State University, Russia		
12:05-13:05	Lunch (Century Hall, Third Floor of New Century Hotel)		
Parallel Session IV			
	Nanodevice Session I (Jian Kang Hall, Fourth Floor of New Century Hotel) Session Chair: Robert W. Boyd	Characterization Session II (Shang Yuan Hall, Fourth Floor of New Century Hotel) Session Chair: Marek Samoc	Short Course Session II (Sheng Zhou Hall, Fourth Floor of New Century Hotel)
13:30-13:45	Invited (9): Qihuang Gong, Peking University (13:30-14:00)	[Nano-08-065] Chia-Lung Tsai, Yow-Jon Lin, National Changhua University.	Title: Diffractive Optics James Leger, University of Minnesota, USA (13:30-15:00)
13:45-14:00		[Nano-08-074] J. X. Cao, Nanjing University	
14:00-14:15	[Nano-08-032] Dong-Sing Wu, National Chung Hsing University	Invited(10): Ya Cheng, Shanghai Institute of Optics and Fine Mechanics, China (14:00-14:30)	
14:15-14:30	[Nano-08-033] Jianghong Yao, Nankai University		
14:30-14:45	[Nano-08-075] Li Zhu, Southeast University	[Nano-08-153] S. S. Ng, Universiti Sains Malaysia, Malaysia	
14:45-15:00	[Nano-08-082] Huaming Wu, Huazhong University of Science and Technology	[Nano-08-172] Haitao Liu, Campus Polytechnique, France	
15:00-15:15	[Nano-08-155] Haslan ABU HASSAN, Universiti Sains Malaysia, Malaysia	[Nano-08-157] Zainuriah Hassan, Universiti Sains Malaysia, Malaysia	
15:15-15:30	[Nano-08-213] Xin Wang, Aichi Institute of Technology, Japan	[Nano-08-210] Yuan Ni, Suzhou University	
15:30-15:45	Break		
Parallel Session V			
	Quantum Dot Session II (Jian Kang Hall, Fourth Floor of New Century Hotel) Session Chair: Guang S. He	Characterization Session III (Shang Yuan Hall, Fourth Floor of New Century Hotel) Session Chair: A. Lewis	Nanosensor Session (Sheng Zhou Hall, Fourth Floor of New Century Hotel) Session Chair: A. Zayats

15:45-16:00	Invited (11): Lan Fu, Australian National University, Australia(15:45-16:15)	[Nano-08-037] Hui-Kang Teng, Nan-Kai Institute of Technology	[Nano-08-091] Weimin Sun, Harbin Engineering University
16:00-16:15		[Nano-08-054] Kai Ji, Graduate University for Advanced Studies, Japan	[Nano-08-097] Zhiguo Xie,University of Science and Technology of China
16:15-16:30	[Nano-08-087] Hai-Ying Liu, South China Normal University	Invited(12): Marek Samoc, Australian National University, Australia (16:15-16:45)	[Nano-08-121] Kaiqun Lin, University of Science and Technology of China,
16:30-16:45	[Nano-08-218] Da-Xun Liang, Southeast University		[Nano-08-161] Zainuriah Hassan,Universiti Sains Malaysia, Malaysia
16:45-17:00	[Nano-08-233] L.Zhang, Zhejiang University	[Nano-08-057] Bin Wu,Nanjing University of Science & Technology	Invited (13): Prabhat Verma, Osaka University, Japan (16:45-17:15)
17:00-17:15	[Nano-08-219] Zhi-Bing Wang , Southeast University	[Nano-08-154] Haslan Abu Hassan,Universiti Sains Malaysia,Malaysia	
17:15-17:30		[Nano-08-206] Henk F. Arnoldus, Mississippi State University,USA	[Nano-08-215] Jing Zhu,Southeast University
17:30-17:45		[Nano-08-240] Dongguang Li, Edith Cowan University, Australia	[Nano-08-041] M. Benounis, University of Guelma, Algeria
17:45-18:00		[Nano-08-211] Wei-Lun Hsu,National Taiwan University	[Nano-08-231] Fei Sun,Huazhong University of Science and Technology
18:00	Supper (Century Hall, Third Floor of New Century Hotel)		
Poster Session (Da Cheng Hall, Second Floor of New Century Hotel)			
19:00-20:00	Poster Session I		
20:00-21:00	Poster Session II		
28-May-2008			
Time	Agenda		
Plenary Session III (Zheng Tian Hall, Fifth Floor of New Century Hotel)			
8:30-9:10	Plenary (V): Xiang Zhang ,University of California at Berkeley, USA	Session Chair: Iam C. Khoo, The Pennsylvania State University, USA	
9:10-9:50	Plenary (VI): Sailing He, Zhejiang University, China and Royal Institute of Technology, Sweden		
9:50-10:05	Break		
Parallel Session VI			
	Photonic Crystals Session III (Zheng Tian Hall, Fifth Floor of New Century Hotel) Session Chair: Heonsu Jeon	Biophotonics Session (Jian Kang Hall, Fourth Floor of New Century Hotel) Session Chair: Lin Pang	
10:05-10:20	Invited (14): Zhiyuan Li , Chinese Academy of Sciences (CAS) (10:05-10:35)	[Nano-08-036] Chien-ming Wu, National Tsing Hua University	
10:20-10:35		[Nano-08-118] Peter E. Powers, University of Dayton , United States	

10:35-10:50	[Nano-08-001] Yongqin Yu, Shenzhen University		Invited(15): Hiromi Okamoto, Institute for Molecular Science, Japan(10:35-11:05)
10:50-11:05	[Nano-08-024] ZHENG Gai-ge, Nanjing University of Science and Technology		
11:05-11:20	[Nano-08-060] Wenjun Zhou, Chinese Academy of Sciences		[Nano-08-244] W. Yuan, Chinese University of Hong Kong
11:20-11:35	[Nano-08-165] Sheng Liu, Northwestern Polytechnical University		[Nano-08-002] Leiting Pan, Nankai University
11:35-11:50	[Nano-08-216] Zheng Li, Tsinghua University		[Nano-08-023]E.Aghabalaiee Khordechi, Islamic Azad University, Iran
11:50-12:05			[Nano-08-043]Jian Zhang , China Pharmaceutical University
12:05-13:05	Lunch (Century Hall, Third Floor of New Century Hotel)		
Parallel Session VII			
	Nanoparticles Session I (Jian Kang Hall, Fourth Floor of New Century Hotel) Session Chair: Wenfang Sun	Nanodevice Session II (Shang Yuan Hall, Fourth Floor of New Century Hotel) Session Chair: Qiwen Zhan	Short Course Session III (Sheng Zhou Hall, Fourth Floor of New Century Hotel)
13:30-13:45	Invited(16): Ying Fu, Royal Institute of Technology, Sweden (13:30-14:00)	[Nano-08-156] Zainuriah Hassan, Ahmed,Universiti Sains Malaysia, Malaysia	Title: Liquid Crystals Meta-Materials lam C. Khoo, The Pennsylvania State University, USA (13:30-15:00)
13:45-14:00		[Nano-08-191] Ryoichi Nakamoto, Univ. of Electro-Communications, Japan	
14:00-14:15	[Nano-08-031] Ming Qian, Nanjing University of Science and Technology	Invited(17): James Leger, University of Minnesota, USA (14:00-14:30)	
14:15-14:30	[Nano-08-064] Yongyuan Jiang , Harbin Institute of Technology		
14:30-14:45	[Nano-08-130] Jun Tao, University of Science and Technology of China	[Nano-08-194] Rui Zhang, Royal Institute of Technology,Sweden	
14:45-15:00	[Nano-08-136] Yoshihiko Takeda, National Institute for Materials Science, Japan	[Nano-08-220] Yang Ji, Southeast University	
15:00-15:15	[Nano-08-145] Xuecong Li, Harbin Institute of Technology	[Nano-08-197] Cheng-Tao Lin, National Taiwan University	
15:15-15:30	[Nano-08-207] Ziyun Di, Shanghai Jiaotong University		
15:30-15:45	Break		
Parallel Session VIII			
	Plasmonics Session II (Jian Kang Hall, Fourth Floor of New Century Hotel) Session Chair: Malgosia Kaczmarek	Nanodevice Session III (Shang Yuan Hall, Fourth Floor of New Century Hotel) Session Chair: Peter Powers	Metamaterials Session (Sheng Zhou Hall, Fourth Floor of New Century Hotel) Session Chair: Xiang Zhang

15:45-16:00	(Invited 18) X. G. Luo, The Institute of Optics and Electronics, CAS, China (15:45-16:15)	[Nano-08-063] Anjin Liu, Chinese Academy of Sciences	Invited(19): Didier Felbacq, University of Montpellier, France (15:45-16:15)
16:00-16:15		[Nano-08-080] Jin Hou, Huazhong University of science and Technology	
16:15-16:30	[Nano-08-050] Zhi Wu, University of Dayton,USA	Invited(20) D. S. Kim, Seoul National University, Korea (16:15-16:45)	[Nano-08-072] Michael A. Fiddy, University of North Carolina,USA
16:30-16:45	[Nano-08-076] Ying Gu, Peking University		[Nano-08-084] Dingshan Gao, Huazhong University of science and Technology
16:45-17:00	[Nano-08-112] Yun-Feng Xiao, Washington University, USA	[Nano-08-205] Xin Li, Mississippi State University, USA	Invited(21) Liang-Yao Chen, Fudan University (16:45-17:15)
17:00-17:15	[Nano-08-131] Junxue Chen, University of Science and Technology of China	[Nano-08-225] Jingping Zhu, Xi'an Jiaotong University	
17:15-17:30	[Nano-08-148] Yongqi Fu, Chinese Academy of Sciences	[Nano-08-232] Xi Zhang, Southeast University	[Nano-08-089] JiangYongyuan, Harbin Institute of Technology
17:30-17:45			[Nano-08-095] T. Li, Nanjing University
17:45-18:00			[Nano-08-185] Jigang Hu, University of Science and Technology of China
18:00	Supper (Century Hall, Third Floor of New Century Hotel)		

29-May-2008

Time	Agenda	
Parallel Session IX		
	Plasmonics Session III (Jian Kang Hall, Fourth Floor of New Century Hotel) Session Chair: Xiangang Luo	Photonic Crystals and Nanodevice Session (Shang Yuan Hall, Fourth Floor of New Century Hotel) Session Chair:Zhiyuan Li
8:30-8:45	Invited(22) Malgosia Kaczmarek, Southampton University, UK (8:30-9:00)	[Nano-08-062] He Yan, Tsinghua University
8:45-9:00		[Nano-08-093] Weimin Sun, Harbin Engineering University
9:00-9:15	[Nano-08-150] Yi Wang, Huazhong University of Science and Technology	Invited(23) Heonsu Jeon, Seoul National University, Korea (9:00-9:30)
9:15-9:30	[Nano-08-184] Chunhong Chen, University of Science and Technology of China	
9:30-9:45	[Nano-08-188] Liangcheng Zhou, Lehigh University, USA	[Nano-08-126] Zhuoer Zhou, Shanghai Jiao Tong University
9:45-10:00	[Nano-08-198] Hsing-Ying Lin, National Cheng Kung University	[Nano-08-239]G. Vienne, Zhejiang University
10:00-10:15	[Nano-08-169] Changtao Wang, Chinese Academy of Sciences	[Nano-08-200] Xiaolei Wang, University of Science and Technology of China

10:15-10:30	Break
	Nanoparticles Session II (JianKang Hall, Fourth Floor of New Century Hotel) Session Chair: Ying Fu
10:30-10:45	Invited(24) Chunxiang Xu, Southeast University, China (10:30-11:00)
10:45-11:00	
11:00-11:15	[Nano-08-242] Wenfang Sun, North Dakota State University,USA
11:15-11:30	[Nano-08-132] S. Emin, Saitama University, Japan
11:30-11:45	[Nano-08-142] Zhi-Bo Liu, Nankai University
11:45-12:00	[Nano-08-196] Chen-Han Huang, National Cheng Kung University
12:05-13:05	Lunch (Century Hall, Third Floor of New Century Hotel)
13:30-17:30	Nanjing Tour

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Nano2008 Committees

Conference Honorary Chairs

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Members

Che Ting Chan (HKUST, Hong Kong, China)

Meir Orenstein (Technion, Israel)

John T. Fourkas (University of Maryland, USA)

Guang S. He (SUNY at Buffalo, USA)

Yidong Huang (Tsinghua University, China)

Andrei V. Kabashin (Ecole Polytechnique de Montréal, Canada)

Satoshi Kawata (Osaka University, Japan)

Akhlesh Lakhtakia (Penn State Univ., USA)

K. S. Lee (Hannam University, Korea)

Gongru Lin (National Taiwan University, China)

Yan Li (Peking University, China)

Xu Liu (Zhejiang University, China)

Xiangang Luo (Institute of Optics and Electronics, Chinese Academy of Sciences, China)

Hai Ming (USTC, China)

Wounjhang Park (University of Colorado, USA)

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Kazuaki Sakoda (Hokkaido University, Japan)

Marek Samoc (Australian National University, Australia)

Concita Sibilila (Universita Roma, Italy)

Da Xing (South China Normal University, China)

Rengen Xiong (Southeast University, China)

Zhou Yu (New Focus Inc., USA)

Qiwen Zhan (University of Dayton, USA)

Daozhong Zhang (Institute of Physics, Chinese Academy of Sciences, China)

Changhe Zhou (SIOFM- Chinese Academy of Sciences, China)

Shining Zhu (Nanjing University, China)

Steering Committee

Kiyoshi Asakawa (Tsukuba University, Japan)

Yiping Cui (Southeast University, China)

Qihuang Gong (Peking University, China)

Joseph W. Haus (University of Dayton, USA)

Sailing He (Zhejiang University, China and KTH, Sweden)

Chennupati Jagadish (Australian National University, Australia)

El-Hang Lee (Inha, South Korea)

James R. Leger (University of Minnesota, USA)

John Pendry (Imperial College, England)

Michael Scalora (U.S. AAMC, USA)

Xuechu Shen (Fudan University, China)

Dinping Tsai (National Taiwan University, China)

Qiming Wang (Institute of Semiconductor, Chinese Academy of Sciences, China)

Jingjun Xu (Nankai University, China)

Guozheng Yang (Institute of Physics, Chinese Academy of Sciences, China)

Welcome Address

Dear NANO 2008 participants,

Last year the first Nanophotonics Topical Conference was held in Hangzhou, China sponsored by the Optical Society of America. The series of conferences we call NANO was conceived by the organizers as a China-based conference with a high level of international participation. The hallmark of our conference is the close interaction among scientists and the strong participation of students. This year's NANO 2008 conference builds on the success of last year's conference with invited speakers from China and all over the world. Scientists from nineteen countries and regions have submitted papers to this year's conference.

This year's Nanophotonics conference is host to Paras Prasad as Keynote speaker and to Eli Yablonovitch, Yidong Huang, Robert Boyd, Yongyuan Zhu, Xiang Zhang and Sailing He as plenary speakers. The scope of the talks covers the field from fabrication to characterization and new approaches to metamaterials and biophotonics. The talks and posters present many new and interesting developments in the field of nanophotonics. The full papers in English on the presentations will be considered for possible publication in Journal of Nonlinear Optical Physics and Materials (a SCI-indexed journal), Chinese Physics Letter (a SCI-indexed journal), or Chinese Optical Letter (an EI-indexed journal). There are three short courses given by Iam C. Khoo, James Leger, Joseph Haus, and Qiwen Zhan, which are free to attendees that serve as an introduction to subfields of research. The topical meeting was created with the intent to bring together international scientists and researchers interested in the recent developments in nanophotonics; it is on a trajectory to achieve that goal. Future venues will be chosen to strengthen your support and enthusiasm for the conference.

We are pleased to acknowledge the support and partnership of the Optical Society of America, who has disseminated the conference information to their world-wide membership. Also we thank the Chinese Optical Society, National Science Foundation of China, the University of Dayton Electro-Optics Program, and Southeast University for their financial support and co-sponsorship. The planning and activities for the conference was ably coordinated by our Program Committee co-Chaired by I.C. Khoo and Qihuang Gong.

We welcome you to Nanjing and invite you to participate in all of the conference activities.

Joseph W. Haus and Yiping Cui
May, 2008

Invited Speakers

Keynote

Paras Prasad, State University of New York at Buffalo, USA

Plenary speakers

Robert W. Boyd, University of Rochester, USA

Sailing He, Zhejiang University, China and Royal Institute of Technology, Sweden

Yidong Huang, Tsinghua University, China

Eli Yablonovitch, University of California at Berkeley, USA

Xiang Zhang, University of California at Berkeley, USA

Yongyuan Zhu, Nanjing University, China

Invited speakers

Liang-Yao Chen, Department of optical science and engineering, Fudan University

Ya Cheng, Shanghai Institute of Optics and Fine Mechanics, China

Didier Felbacq, University of Montpellier, France

Lan Fu, Australian National University, Australia

Ying Fu, Royal Institute of Technology, Sweden

Qihuang Gong, Peking University, China

Guang S. He, State University of New York at Buffalo, USA

M.H. Hong, National University of Singapore, Singapore

Malgosia Kaczmarek, Southampton University, UK

Zhiyuan Li, Chinese Academy of Sciences (CAS), China

D. S. Kim, Seoul National University, Korea

James Leger, University of Minnesota, USA

A. Lewis, The Hebrew University of Jerusalem, Israel

X. G. Luo, The Institute of Optics and Electronics, CAS, China

Hiromi Okamoto, Institute for Molecular Science, Japan

Lin Pang, University of California San Diego, USA

Marek Samoc, Australian National University, Australia

Prabhat Verma, Osaka University, Japan

Claude Weisbuch, France and University of California at Santa Barbara, USA

Diederik Wiersma, University of Florence, Italy

Chunxiang Xu, Southeast University, China

A. Zayats, Queen's University Belfast, Ireland

Heonsu Jeon, Seoul National University, Korea,

Changhe Zhou, SIOFM- Chinese Academy of Sciences, China

Short courses: Short courses are free to students.

Joseph Haus and Qiwen Zhan, University of Dayton, USA

Iam C. Khoo, The Pennsylvania State University, USA

James Leger, University of Minnesota, USA

Biographies of Plenary Speakers

Paras N. Prasad (State University of New York at Buffalo, USA)

Dr. Paras N. Prasad is a SUNY Distinguished Professor of Chemistry, Physics, Medicine and Electrical Engineering, the highest rank in the New York State university system. He has the highly unusual distinction of being a faculty member in three different UB schools: College of Arts and Sciences, School of Engineering and Applied Sciences, and the School of Medicine and Biomedical Sciences. He also holds the Samuel P. Capen Chair at the University at Buffalo. He established the internationally recognized Photonics Research Laboratory, which forms the core of the multidisciplinary Institute for Lasers, Photonics and Biophotonics, of which he is the Executive Director. He has published over 568 scientific papers, co-edited six books and co-authored a monograph (with D.J. Williams), *"Introduction to Nonlinear Optical Effects in Molecules and Polymers,"* the first monograph in this field, which has widely been used as a textbook and a reference source. Recently, Dr. Prasad published *"Introduction to Biophotonics,"* the first monograph in this field, which authoritatively defines the field, details its scope and identifies emerging opportunities, as well as a second book, *"Nanophotonics,"* which includes its impact on Nanomedicine.

Professor Prasad is one of the early pioneers and most widely recognized by the international community for his seminal contributions to the field of nonlinear optical effects in molecules and polymers. Through more than a decade of numerous ground breaking theoretical and experimental works, Professor Prasad has made a major contribution to the fundamental understanding of the interplay of structure and energy state dynamics to produce a specific nonlinear optical response. More recently, his contributions have been in the new field of "Nanophotonics." His efforts have focused on creating a fundamental understanding of nonlinear optical processes at the nanometer size scale, developing novel concepts for the design of nanostructured optical materials, and probing interactions and dynamics of nonlinear processes. He has also contributed to developing another new field, "Biophotonics," which utilizes light-matter interaction to probe biological structure and functions at the cellular, tissue and organism levels, leading to novel methods of optical diagnostics and light-activated therapy. Professor Prasad has again focused on applications of nonlinear optical techniques for Biophotonics.

Dr. Prasad has received much recognition for his pioneering contributions. He is a Fellow of the American Physical Society, a Fellow of the Optical Society of America and a Fellow of the SPIE. He is also a recipient of the prestigious Sloan and Guggenheim fellowships. Dr. Prasad has received the Schoellkopf Award of the Western New York American Chemical Society for his academic achievements. He was also awarded the Technology/Discovery award from the Western New York Health Care Industries Association for his pioneering work on "Nanoclinics" for Biophotonics. He has been awarded the "Excellence in Pursuit of Knowledge" award by the Chancellor of the State University of New York system. He is a recipient of the Morley Prize of the Cleveland Section of the American Chemical Society in 2004, has been chosen Scientific America's Top 50 Scientists (2005), awarded a State of New York Legislative Resolution Honoring Dr. Prasad (2006). He received

an Honorary Professorship (In recognition of his scholarship and outstanding achievements), from Zhejiang University, one of the top 5 Universities in China.

Dr. Prasad has been extremely active in transitioning basic research to novel technologies leading to new businesses. He holds numerous patents. Dr. Prasad is the founder and President of three high tech companies located in Amherst, NY. (i) *Laser Photonics Technology, Inc* marketing lasers and optics, (ii) *Hybrid Technology* dealing with propriety high performance holographic materials, and (iii) *Advanced Cytometry Instrumentation Systems* producing new generation biomedical instrument for flow cytometry. Dr. Prasad's technologies have also led to two other spin-off companies. (i) a Paris, France, based company, Nanobiotix, specializing in application of nanotechnology for medical diagnostics and therapies, and (ii) a Sunnyvale, California company, Solexant Corporation, which is engaged in application of nanotechnology for solar energy.

Dr. Prasad is also a leader in promoting international scientific infrastructures, particularly to benefit developing countries. He organized six "International Conferences on Frontiers of Polymers and Advanced Materials (India, 1991; Indonesia, 1993; Malaysia, 1995; Egypt, 1997; Poland, 1999; Brazil, 2001)." Each of these conferences brought together top level scientists, engineers and government representatives from more than 20 countries to develop a global infrastructure for advanced materials and emerging technologies.

Eli Yablonovitch (University of California at Berkeley, USA)

Prof. Eli Yablonovitch graduated with the Ph.D. degree in Applied Physics from Harvard University in 1972. He worked for two years at Bell Telephone Laboratories, and then became a professor of Applied Physics at Harvard. In 1979 he joined Exxon to do research on photovoltaic solar energy. Then in 1984, he joined Bell Communications Research, where he was a Distinguished Member of Staff, and also Director of Solid-State Physics Research. In 1992 he joined the University of California, Los Angeles. Then in 2007 he became Professor of Electrical Engineering and Computer Sciences at UC Berkeley.

Prof. Yablonovitch's work has covered a broad variety of topics: nonlinear optics, laser-plasma interaction, infrared laser chemistry, photovoltaic energy conversion, strained-quantum-well lasers, and chemical modification of semiconductor surfaces. Currently his main interests are in optoelectronics, high speed optical communications, high efficiency light-emitting diodes and nano-cavity lasers, photonic crystals at optical and microwave frequencies, quantum computing and quantum communication.

Yablonovitch was a Founder of the W/PECS series of Photonic Crystal International Workshops that began in 1999. (PECS VIII will be held in Australia in 2009.)

He is a Fellow of the Institute of Electrical and Electronic Engineers, the Optical Society of America, and the American Physical Society. Yablonovitch is a Life Member of Eta Kappa Nu, and a Member of the National Academy of Engineering and the National Academy of Sciences. He has been awarded the Adolf Lomb Medal, the W. Streifer Scientific Achievement Award, the R.W. Wood Prize, and the Julius Springer Prize.

Selected Publications

E. Yablonovitch, M. Xiao, I. Martin, and H. Jiang, "Electrical Detection of the Spin Resonance of a Single Electron in a Silicon Field-Effect Transistor," *Nature*, vol. 430, no. 6998, pp. 435-439, July 2004.

E. Yablonovitch, H. Jiang, H. Kosaka, H. Robinson, D. Rao, and T. Szkopek, "Optoelectronic Quantum Telecommunications Based on Spins in Semiconductors," *Proceedings of the IEEE*, vol. 91, no. 5, pp. 761-780, May 2003.

E. Yablonovitch, H. Kosaka, D. Rao, H. Robinson, P. Bandaru, and K. Makita, "Single Photoelectron Trapping, Storage, and Detection in a Field Effect Transistor," *Physical Review B (Condensed Matter and Materials in Physics)*, vol. 67, no. 4, pp. 45104/1-5, Jan. 2003.

E. Yablonovitch, "Photonic Crystals: Semiconductors of Light," *Scientific American*, vol. 285, no. 6, pp. 47-55, Dec. 2001.

E. Yablonovitch, I. Gontijo, M. Boroditsky, S. Keller, U. Mishra, and S. DenBaars, "Coupling of InGaN Quantum-well Photoluminescence to Silver Surface Plasmons," *Physical Review B (Condensed Matter and Materials in Physics)*, vol. 60, no. 16, pp. 11564-67, Oct. 1999.

Yidong Huang (Tsinghua University, China)

Yidong Huang was born in Beijing, China. She received the B.S. and Ph.D. degrees in optoelectronics from Tsinghua University, Beijing, China, in 1988 and 1994, respectively. From 1991 to 1993, she was with Arai Laboratories, Tokyo Institute of Technology, Japan, on leave from the Tsinghua University. Her Ph.D. dissertation was mainly concerned with strained quantum well lasers and laser amplifiers. In 1994, she joined the Photonic and Wireless Devices Research Laboratories, NEC Corporation, where she was engaged in the research on semiconductor laser diodes for optical-fiber communication and became an assistant manager in 1998. She received "Merit Award" and "Contribution Award" from NEC Corporation in 1997 and 2003, respectively. She joined the Department of Electronics Engineering, Tsinghua University in 2003, as a professor, and became Vice Chairman of the Department in 2007. She is presently engaged in research on nano-structure optoelectronics. Professor Huang is a member of the IEEE.

Robert W. Boyd (University of Rochester, USA)

Robert W. Boyd was born in Buffalo, New York. He received the B.S. degree in physics from the Massachusetts Institute of Technology and the Ph.D. degree in physics in 1977 from the University of California at Berkeley. His Ph.D. thesis was supervised by Professor Charles H. Townes and involves the use of nonlinear optical techniques in infrared detection for astronomy. Professor Boyd joined the faculty of the Institute of Optics of the University of Rochester in 1977 and since 1987 has held the position of Professor of Optics. He also holds the positions of the M. Parker Givens Professor of Optics and Professor of Physics. His research interests include studies of "slow" and "fast" light propagation, quantum imaging techniques, nonlinear optical interactions, studies of the nonlinear optical properties of materials, the development of photonic devices including photonic biosensors, and studies of the quantum statistical properties of nonlinear optical interactions. Professor Boyd has written two books, co-edited two anthologies, published over 270 research papers, and been awarded seven patents. He is a

fellow of the Optical Society of America and of the American Physical Society and is the past chair of the Division of Laser Science of the American Physical Society.

Books Published

- R. W. Boyd, *Radiometry and the Detection of Optical Radiation* (John Wiley and Sons, New York, 1983).
- R. W. Boyd, M. G. Raymer, and L. M. Narducci, editors, *Optical Instabilities* (Cambridge University Press, Cambridge, 1986).
- R. W. Boyd, *Nonlinear Optics*, (Academic Press, 1991).
- G. P. Agrawal and R. W. Boyd, editors, *Contemporary Nonlinear Optics* (Academic Press, Boston, 1991)

Selected Publications in Nonlinear Quantum Optics

- Superluminal and Slow Light Propagation in a Room-Temperature Solid, M. S. Bigelow, N. N. Lepeshkin, and R. W. Boyd, *Science*, 301, 200, 2003.
- Observation of Ultra-Slow Light Propagation in a Ruby Crystal at Room Temperature M. S. Bigelow, N. N. Lepeshkin, R. W. Boyd, *Phys. Rev. Lett.* 90, 113903 (2003).
- “Two-Photon” Coincidence Imaging with a Classical Source, R. S. Bennink, S. J. Bentley, and R. W. Boyd, *Phys. Rev. Lett.* 89, 1130601, 2002.
- Honeycomb Pattern Formation by Laser-Beam Filamentation in Atomic Sodium Vapor, R. S. Bennink, V. Wong, A. M. Marino, D. L. Aronstein, R. W. Boyd, C. R. Stroud, Jr., S. Lukishova, and D. J. Gauthier, *Phys. Rev. Lett.* 88, 113901, 2002.
- Efficient Infrared Imaging Upconversion via Quantum Coherence, R. W. Boyd and M. O. Scully, *Appl. Phys. Lett.* 77, 3559, 2000.
- Enhanced All-Optical Switching by use of a Nonlinear Fiber Ring Resonator, J. E. Heebner and R. W. Boyd, *Opt. Lett.* 24, 847, 1999.
- Conversion of Unpolarized Light to Polarized Light with Greater Than 50% Efficiency by Photorefractive Two-Beam Coupling, J. E. Heebner, R. S. Bennink, R. W. Boyd, and R. A. Fisher, *Optics Letters* 25, 257, 2000.
- Enhanced Electrooptic Response of Layered Composite Materials, R. L. Nelson and R. W. Boyd, *Applied Physics Letters*, 74, 2417, 1999.
- Accessing the Optical Nonlinearity of Metals with Metal-Dielectric Photonic Bandgap Structures, R. S. Bennink, Y.-K. Yoon, R. W. Boyd, and J. E. Sipe, *Opt. Lett.* 24, 1416, 1999.
- Statistical Noise Properties of an Optical Amplifier utilizing Two-Beam Coupling in an Atomic-Potassium Vapor, W. V. Davis, A. L. Gaeta, R. W. Boyd, and G. S. Agarwal, *Phys. Rev. A*, 53, 3625-3632, 1996.
- Enhanced Nonlinear Optical Response of Composite Materials, G. L. Fischer, R. W. Boyd, R. J. Gehr, S. A. Jenekhe, J. A. Osaheni, J. E. Sipe, and L. A. Weller-Brophy, *Phys. Rev. Lett.* 74, 1871, 1995.
- Linear and Nonlinear Optical Measurements of the Lorentz Local Field, J. J. Maki, M. S. Malcuit, J. E. Sipe, and R. W. Boyd, *Phys. Rev. Lett.* 68, 972, 1991.
- Polarization Bistability of Counterpropagating Laser Beams, D. J. Gauthier, M. S. Malcuit, A. L. Gaeta, and R. W. Boyd, *Phys. Rev. Lett.* 64, 1721 (1990).
- Polarization Instabilities of Counterpropagating Laser Beams in Sodium Vapor, D. J. Gauthier, M. S. Malcuit, and R. W. Boyd, *Phys. Rev. Lett.* 61, 1827, 1988.

Yong-yuan Zhu (Nanjing University, China)

Yong-yuan Zhu was born in Suzhou, China, on August 10, 1949. He received the B.S. and Ph.D degrees in Physics from Nanjing University, Nanjing, China, in 1982 and 1991, respectively.

He joined the Physics Department of Nanjing University in 1982 and since 1992 has been a professor. He is now working in the National Laboratory of Solid State Microstructures, Nanjing University. His research interests include microstructured materials and the related physical properties.

Xiang Zhang(University of California at Berkeley, USA)

Professor Xiang Zhang is Chancellor's Professor at UC Berkeley and the Director of NSF Nano-scale Science and Engineering Center (NSEC) which includes Berkeley-Stanford-UCLA-UCSD-UNCC. He also serves as Director of Department of Defense MURI Center on Metamaterials and Devices that includes Berkeley-MIT-UCLA-UCSD-Duke-Imperial College (UK).

Professor Zhang's current research focused on nano-scale science and technology, meta-materials, nano-photonics and bio-technologies. He has published more than 80 technical papers including publications in *Science* and *Nature Materials*. He has given over 80 invited or keynote talks at international conferences and institutions. Professor Zhang is on editorial boards of three journals. He is a co-chair of NSF Nanoscale Science and Engineering Annual Grantee Conference in 2004-2005, Chair of Technical Program of IEEE 2nd International Conference on Micro and Nano Engineered and Molecular Systems in 2007.

Professor Zhang's research has been selected to be one of *Top Ten Nanotechnology Breakthroughs* in 2005, and *Fast Breaking Papers*, as one of the most cited recent papers in Physics in 2006, and *R&D Magazine's top 25 the Most Innovative Products of 2006*. He was selected as a Finalist for the 2005 Small Times Magazine *2005 Small Tech Best Researcher Award*. His research was frequently featured by media such as *MRS Bulletin* (Materials Research Society), *Laser Focus World*, *Photonics Spectra*, *Materials Today*, *Physics Web*, *San Jose Business Journal*, *R&D Magazine*, as well as international media including *BBC News*, UK, *Better Humans*, Canada, *The Hindu*, India. Professor Zhang is a recipient of NSF *CAREER Award* (1997); *Engineering Foundation Award* (1997); SME *Dell K. Allen Outstanding Young Manufacturing Engineer Award* (1998) and *ONR Young Investigator Award* (1999). He was nominated in 2004 for the *Millennium Technology Prize*, the world's largest technology award. He was selected as a "Distinguished Lecturer" at University of Texas at Austin in 2004 and SEMETECH in 2005.

Professor Zhang received Ph.D from UC Berkeley (1996). He was an assistant professor at Pennsylvania State University (1996-1999), and associate professor (1999-2003) and full professor (2003-2004) at UCLA prior joined Berkeley faculty in 2004. He is also a member of NASA Institute of Cell Mimetic Space Exploration (CMISE) and member of Berkeley Nanoscience and Nanotechnology Institute (BNNI).

Sailing He (Zhejiang University, China and Royal Institute of Technology, Sweden)

Sailing He received the Licentiate of Technology and Ph.D. degree from the Royal Institute of Technology, Stockholm, Sweden, in 1991 and 1992, respectively. After obtaining his PhD degree, he has worked at the Royal Institute of Technology (Sweden) as an assistant professor, an associate professor and a full professor. He joined Zhejiang University (China) in 1999 and currently is a chief scientist of the Joint Research Center of Photonics of the Royal Institute of Technology (Sweden) and Zhejiang University (China). Prof. Sailing He has first-authored one monograph (Oxford University Press) and authored/co-authored over 300 papers in refereed international journals (about half of them are in journals published by IEEE, Optical Society of America, and American Society of Physics). Prof. He has given many invited talks and lectures in international meetings, including plenary talks in SPIE (International Society for Optical Engineering) Annual Meeting (San Diego, US, 2006) and APOC (Asia-Pacific Optical Communications) 2004. Prof. He has served as General Chair (or Co-chair) for a number of international conferences, as well as in Steering Committee, Scientific Advisory Board or Technical Program Committee for numerous international congress/conferences and journals. Prof. He is a Fellow of OSA (Optical Society of America).

Plenary Presentations

Opening Ceremony and Keynote

Monday, May 26, 2008

Opening Ceremony and Keynote

9:00 to 10:30

Room: Zheng Tian Hall, Fifth Floor of New Century Hotel

Session Chair: Yiping cui, Southeast University

9:00 to 9:30 Welcome Speeches

9:30 to 10:30 Keynote

Paras N. Prasad, State University of New York at Buffalo, USA

10:30 to 10:45 Coffee/Tea Break

Plenary Presentations

Monday, May 26, 2008

Plenary Session I

10:45 to 12:05

Room: Zheng Tian Hall, Fifth Floor of New Century Hotel

Session Chair: Joseph W. Haus, University of Dayton, USA

10:45 to 11:25 Nanophotonics, from Photonic crystals to Plasmonics

Eli Yablonovitch, University of California at Berkeley, USA

11:25 to 12:05 Long Range SSP and Their Applications

Yidong Huang, Tsinghua University, China

12:05 to 13:05 Lunch Time

Tuesday, May 27, 2008

Plenary Session II

8:30 to 9:50

Room: Zheng Tian Hall, Fifth Floor of New Century Hotel

Session Chair: Qihuang Gong, Peking University

8:30 to 9:10 Nanoscale Composite Materials with Enhanced Nonlinear Response for Photonics

Robert W. Boyd, University of Rochester, USA

9:10 to 9:50 Novel physical properties of patterned ferroelectric domain structures

Yongyuan Zhu, Nanjing University, China

9:50 to 10:05 Coffee/Tea Break

Wednesday, May 28, 2008

Plenary Session III

8:30 to 9:50

Room: Zheng Tian Hall, Fifth Floor of New Century Hotel

Session Chair: Iam C. Khoo, The Pennsylvania State University, USA

8:30 to 9:10 Optical Metamaterials, Nano Plasmonics and Superlens

Xiang Zhang, University of California at Berkeley, USA

9:10to 9:50 Improving the performances and functionalities of photonics devices with subwavelength structures and nanoparticles

Sailing He, Zhejiang University, China and Royal Institute of Technology, Sweden

9:50 to10: 05 Coffee/Tea Break

Short Course Sessions

Monday, May 26, 2008

Short Course Session I

13:30 to 15:00

Room: Sheng Zhou Hall, Fourth Floor of New Century Hotel

Nanophotonics

Joseph Haus and Qiwen Zhan, University of Dayton, USA

Tuesday, May 27, 2008

Short Course Session II

13:30 to 15:00

Room: Sheng Zhou Hall, Fourth Floor of New Century Hotel

Diffraction Optics

James Leger, University of Minnesota, USA

Wednesday, May 28, 2008

Short Course Session III

13:30 to 15:00

Room: Sheng Zhou Hall, Fourth Floor of New Century Hotel

Liquid Crystals Meta-Materials

Iam C. Khoo, The Pennsylvania State University, USA

Oral Sessions

Photonic Crystals Sessions

Monday, May 26, 2008

Photonic crystals Session I

13:30-15:30

Room :Jian Kang Hall, Fourth Floor of New Century Hotel

Session Chair: Sailing He, Zhejiang University, China and Royal Institute of Technology, Sweden

13:30-14:00 Invited (1): New concepts in photonic crystal LEDs, Claude Weisbuch, France and University of

California at Santa Barbara, USA

- 14:00-14:15 Observation of discrete and gap soliton trains in light-induced 2D photonic lattices under an identical bias condition**, Yi Hu, Cibo Lou, Sheng Liu, Peng Zhang, Jianlin Zhao, Jingju Xu, Zhigang Chen, Nankai University.....[Nano-08-008]
- 14:15-14:30 Corrections to temperature-dependent Sellmeier equation for Mg-doped stoichiometric lithium tantalite**, Wenle Weng, Youwen Liu, Xiaoqi Zhang, and Jiming Wang, Nanjing University of Aeronautics and Astronautics.....[Nano-08-049]
- 14:30-14:45 Machining Nonlinear Optical Crystals for Waveguide Frequency Conversion**, Peter E. Powers, Qiwen Zhan, and Shuangyang Yang, University of Dayton, USA..... [Nano-08-119]
- 14:45-15:00 Lattice solitons in nonconventionally biased photorefractive crystals**, Jianlin Zhao, Peng Zhang, Sheng Liu, Fajun Xiao, Northwestern Polytechnical University. [Nano-08-163]
- 15:00-15:15 Beaming of light via photonic crystal coupled cavities**, Zhi-Hong Zhu, Hui Liu, Nanjing University.....[Nano-08-171]
- 15:15-15:30 Near-field images of high-density chromium gratings with subwavelength slits**, Jiangjun Zheng, Changhe Zhou, Shanghai Institute of Optics and Fine Mechanics..... [Nano-08-086]
- 15:30 to 15:45 Coffee/Tea Break**

Tuesday, May 27, 2008

Photonic crystals Session II

10:05-12:05

Room: Zheng Tian Hall, Fifth Floor of New Century Hotel

Session Chair: Kazuaki Sakoda, Hokkaido University, Japan

10:05-10:35 Invited (6): A Levy Flight for Light, Diederik S. Wiersma, Pierre Barthelemy, Jacopo Bertolotti, University of Florence, Italy

10:35-10:50 Achieving complete band gaps using materials with low refractive index, Tianrui Zhai, Zhi Ren, Rongkuo Zhao, Zhaona Wang, Dahe Liu, Beijing Normal University.....[Nano-08-039]

10:50-11:05 Asymmetric waveguide coupler based on periodic dielectric pillars, Huaxiang Yi, Zhiping Zhou, Huazhong University of Science and Technology.....[Nano-08-159]

11:05-11:20 New configuration of ring resonator in photonic crystal based on self-collimation Xianpeng Shen, Yifeng Shen, Kui Han, Haishun Liu, Haipeng Li, Ziyu Wang, China University of Mining & Technology.....[Nano-08-192]

11:20-11:35 Group velocity of light modulated by electro-optical effect in PPLN crystal, Wenjie Lu, Yuping Chen, Xianfeng Chen, Yuxing Xia, Shanghai Jiaotong University..... [Nano-08-208]

11:35-11:50 Interaction between discrete vortex soliton and fundamental discrete soliton in 2D optically induced photonic lattices, Xuetao Gan, Peng Zhang, Sheng Liu, Fajun Xiao, Jianlin Zhao, Northwestern Polytechnical University.....[Nano-08-166]

11:50-12:05 The Problem of Dispersion Symmetry in Anisotropic Photonic Crystals Properties Calculation, Irina A. Khromova, Leonid A. Melnikov, Saratov State University, Russia.....[Nano-08-110]

12:05 to 13:05 Lunch Time

Wednesday, May 28, 2008

Photonic crystals Session III

10:05 -11:50

Room: Zheng Tian Hall, Fifth Floor of New Century Hotel

Session Chair: Heonsu Jeon, Seoul National University, Korea

10:05-10:35 Invited (14): Near-Field Study of Optical Nanostructures, Zhiyuan Li, Chinese Academy of Sciences (CAS)

10:35-10:50 Ultra-broad-bandwidth Raman Fiber Amplifier with a Photonic Crystal Fiber, Yongqin Yu, Shuangchen Ruan, Jihong Zhao, Yi Huang, Yuan Guo, Shenzhen University.....[Nano-08-001]

10:50-11:05 Subwavelength imaging through one-dimensional metallodielectric photonic crystals at optical frequencies, Gai-Ge Zheng, Li-Yong Jiang, Ling-Xing Shi, Xiang-Yin Li, Nanjing University of Science and Technology..... [Nano-08-024]

11:05-11:20 The Impact Of The Imperfect Symmetry On The Band Edge Modes Of Two-Dimensional Photonic Crystal With Square Lattice, Wenjun Zhou, Wei Chen, Anjin Liu, Mingxin Xing, Gang Ren, Yejin Zhang, Lianghai Chen, Wanhua Zheng, Chinese Academy of Sciences.....[Nano-08-060]

11:20-11:35 Interaction of lattice soliton trains in optically induced 2D photonic lattices with self-defocusing nonlinearity, Sheng Liu, Peng Zhang, Fajun Xiao, Xuetao Gan and Jianlin Zhao, Northwestern Polytechnical University.....[Nano-08-165]

11:35-11:50 Optimization on Photonic Crystal Cavity for Single Photon Emitter, Zheng Li, YunSong Zhao, ZhiBiao Hao, Yi Luo, Tsinghua University.....[Nano-08-216]

12:05 to 13:05 Lunch Time

Thursday, May 29, 2008 **Photonic crystals and Nanodevice Session**

8:30-10:15 Room: Shang Yuan Hall, Fourth Floor of New Century Hotel

Session Chair: Zhiyuan Li, Chinese Academy of Sciences (CAS)

8:30-8:45 Multi-channel surface-enhanced Raman scattering probe based on photonic crystal fiber, He Yan, Jie Liu, Changxi Yang, Lantian Hou, Tsinghua University.....[Nano-08-062]

8:45-9:00 Polarization beating of photonic crystal fibers of two high-index cores, Weimin Sun, Xiaoqi Liu, Jianzhong Zhang, Yancheng Zhao, Qiang Liu, T.A. Birks, Harbin Engineering University.....[Nano-08-093]

9:00-9:30 Invited(23) Photonic crystal bandedge lasers and their efficient fiber coupling, Heonsu Jeon, Seoul National University, Korea

9:30-9:45 Electrical tunable photonic quantum well structure in submicron periodically poled LiNbO₃, Zhuoer Zhou, Jianhong Shi, Xianfeng Chen, Shanghai Jiao Tong University.....[Nano-08-126]

9:45-10:00 Microfiber Resonators in the Linear and the Nonlinear Regimes, G. Vienne, Ph. Grelu, A. Coillet, Y. Li, C. Men, S. Lebrun, G. Pauliat, G. Roosen, L. Tong, Zhejiang University.....[Nano-08-239]

10:00-10:15 The coupling and propagation of modes in metal-nonlinear optical material-metal (M-NLO-M) structure, Xiaolei Wang, Pei Wang, Changjun Min, Guanghu Yuan, Junxue Chen, Yonghua Lu, Hai Ming, University of Science and Technology of China.[Nano-08-200]

10:15 to 10:30 Coffee/Tea Break

Nanofabrication Sessions

Monday, May 26, 2008 **Nanofabrication Session I**

13:30-15:30 Room :Shang Yuan Hall, Fourth Floor of New Century Hotel

Session Chair: Changhe Zhou, SIOFM- Chinese Academy of Sciences

13:30-13:45 Field emission properties of large-area metal nanospikes fabricated by ultrashort laser pulses, Q. Z. Zhao, F. Ciobanu, and L. J. Wang, University Erlangen-Nuremberg, German..... [Nano-08-044]

13:45-14:00 Numerical simulations on the formation of speckles when illuminating nanofluids with TEM₀₀ laser mode, Qin Yan, Ming Qian, Xiao-Wu Ni, Jian Lu, Qiang Li and Yi-Min Xuan, Nanjing University of Science and Technology.....[Nano-08-038]

14:00-14:30 Invited(2) Surface Nano-structuring by Laser Irradiation, M H Hong, B Lukyanchuk, L S Tan, L P Shi and TC Chong, National University of Singapore, Singapore

14:30-14:45 The design and nanofabrication of novel micro-optical elements based on fused-silica gratings, Bo Wang, Changhe Zhou, Jijun Feng, Huayi Ru, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences.....[Nano-08-085]

14:45-15:00 Fabrication of nc-Si/SiO₂ Structure by Thermal Oxidation Method and Its Luminescence Characteristics, Haojie Zhang, Longzhi Lin, Shaoji Jiang, Sun Yat-sen University.....[Nano-08-137]

15:00-15:15 Inductively coupled plasma etching in fabrication of InP photonic crystals, Hailing Wang, Mingxin Xing, Gang Ren, Wanhua Zheng, Institute of Semiconductors, Chinese Academy of Sciences.....[Nano-08-099]

15:15-15:30 Organic Nanostructures based on Self-assembly Metalloporphyrins, Zong-Xiang Xu, Hai-Feng Xiang, V. A. L. Roy, Sze-Chit Yu, Stephen Sin-Yin Chui, Chi-Ming Che, P. T Lai, The University of Hong Kong[Nano-08-006]

15:30 to 15:45 Coffee/Tea Break

Monday, May 26, 2008

Nanofabrication Session II

15:45-17:45

Room: Shang Yuan Hall, Fourth Floor of New Century Hotel

Session Chair: James Leger, University of Minnesota, USA

15:45-16:00 Achieving thin films with micro/nano-scale controllable morphology by glancing angle deposition technique, Chaoyi Wang, Jijia Tang, Shaoji Jiang, Sun Yat-sen University.....[Nano-08-138]

16:00-16:15 Holographic Fabrication of Photonic Crystal Templates with Diamond Symmetry by Two Dimensional Phase Mask Lithography, Di Xu, Kevin P. Chen, Yuankun Lin, University of Pittsburgh, USA.....[Nano-08-199]

16:15-16:45 Invited(4): Nano-diffractive Optical Elements and Applications, Changhe Zhou, SIOFM- Chinese Academy of Sciences

16:45-17:00 Calculation of Three Dimensional Profiles of Photoresist Exposed by Non-propagating Localized Electric Fields of High-Transmission Metal Nano Apertures, Eungman Lee, Jae Won Hahn, Yonsei University, South Korea.....[Nano-08-236]

17:00-17:15 A Novel Micro-area Micro/Nano-imprinting Lithography Method On Flexible Plastic Substrates, Su Shen, Linsen Chen, Lei Zhou, Zhengdong Xie, Guojun Wei, Institute of Information Optical Engineering, Soochow University..... [Nano-08-034]

17:15-17:30 Nanostructured surfaces induced by local-field enhanced femtosecond laser, Ming Zhou, Feng Yan, Haifeng Yang, Lan Cai, Jiangsu University.....[Nano-08-144]

17:30-17:45 pH Dependent Nucleation and Agglomeration/Morphology of nanocrystalline TiO₂ Ghulam Raza, R Vasant Kumar, Abdul Hameed, Tariq Bhatti, Department of Microbiology Quaid-i-Azam University Islamabad Pakistan.....[Nano-08-029]

18:30 Banquet

Quantum Dot Sessions

Monday, May 26, 2008

Quantum Dot Session I

15:45-17:30

Room: Jian Kang Hall, Fourth Floor of New Century Hotel

Session Chair: Lan Fu, Australian National University, Australia

15:45-16:15 Invited (3): Multi-photon studies and applications of semiconductor quantum dots, rods, and tripods, Guang S. He and Paras N. Prasad, State University of New York at Buffalo, USA

16:15-16:30 Flexible Vertical Cavity surface emitting Laser using Colloidal quantum dots, M. Luberto, N. Valappil, S. Chatterjee, V. M. Menon, The City University of New York (CUNY), USA.....[Nano-08-051]

16:30-16:45 Energy levels of GaAs/AlGaAs quantum rings under electric field, Y.Z. Yao, T. Ochiai, T. Mano, T. Kuroda, T. Noda, N. Koguchi, K. Sakoda, National Institute for Materials Science (NIMS), Japan.....[Nano-08-079]

16:45-17:00 Purcell effect of GaAs quantum dots in photonic crystal microcavities, K. Sakoda, T. Kuroda, T. Mano, T. Ochiai, K. Kuroda, N. Koguchi, N. Ikeda, Y. Sugimoto, S. Okochi, K. Asakawa, National Institute for Materials Science, Japan.....[Nano-08-125]

17:00-17:15 Theoretical investigation of the third-order nonlinear optical susceptibility of quantum dots, Qiguang Yang, Jaetae Seo, SeongMin Ma, Bagher Tabibi, Hampton University, USA..... [Nano-08-195]

17:15-17:30 Non-invasive near infrared fluorescence imaging of CdHgTe quantum dots in mouse model, Haiyan. Chen, Yuzhu. Hu, Yueqing. Gu, China Pharmaceutical University..... [Nano-08-005]

18:30 Banquet

Tuesday, May 27, 2008

Quantum Dot Session II

15:45-17:45

Room: Jian Kang Hall, Fourth Floor of New Century Hotel

Session Chair: Guang S. He, State University of New York at Buffalo, USA

15:45-16:15 Invited (11): Quantum dot infrared photodetectors grown by metalorganic chemical vapour deposition, L. Fu, G. Jolley, H.H. Tan and C. Jagadish, Australian National University, Australia

16:15-16:30 Effect of p-type doping on carrier dynamics in InAs/GaAs quantum dots investigated by degenerate pump-probe reflection measurements, Hai-Ying Liu, Zi-Ming Meng, Qiao-Feng Dai, Li-Jun Wu, Song-Hao Liu, Tao Yang and Sheng Lan, South China Normal University.....[Nano-08-087]

16:30-16:45 Evolution of luminescence with the shell's thickness in colloidal CdSe/CdS core/shell quantum dots, Da-Xun Liang, Li Shen, Zhi-bing Wang, Li-Xin Zhou, Yi-Ping Cui, Jia-Yu Zhang, Southeast University.....[Nano-08-218]

16:45-17:00 Different properties of quantum dots in MBE growth of Ge on Si substrate, L.Zhang, H.Ye, X.Liu, Y.R.Huangfu, Zhejiang University.....[Nano-08-233]

17:00-17:15 The effect of electrical field on colloidal CdSe/ZnS quantum dots, Zhi-Bing Wang, Jia-Yu Zhang, Li-Xin Zhou, Liang Yan, Yiping Cui, Southeast University.....[Nano-08-219]

18:00 Supper Time

Characterization Sessions

Monday, May 26, 2008**Characterization Session I****15:45-17:45****Room: Sheng Zhou Hall, Fourth Floor of New Century Hotel****Session Chair:** Prabhat Verma, Osaka University, Japan**15:45-16:00 High resolution optical inspection of phase-change media,** Jen-You Chu, Jyi-Tyan Yeh , You-Chia Chang, Tien-Jen Wang, Juen-Kai Wang, Chutung, Hsinchu..... [Nano-08-021]**16:00-16:15 Electronic transport and Schottky barrier heights of Au contacts on n-type Si with and without conducting polymer,** Chia-Lung Tsai, Yi-Chun Lien, Yow-Jon Lin, National Changhua University.....[Nano-08-040]**16:15-16:30 Current Rectification in Nematic Liquid Crystal Cell with Alkanethiol Self-Assembled Monolayer,** Fengfeng Yao, Yanbo Pei, Xiudong Sun, Harbin Institute of Technology.....[Nano-08-143]**16:30-16:45 Composition dependence of the surface phonon-polariton mode in wurtzite $\text{In}_x\text{Ga}_{1-x}\text{N}$ ($0 \leq x \leq 1$) ternary alloy,** S. S. Ng, Z. Hassan, H. Abu Hassan, Universiti Sains Malaysia, Malaysia.....[Nano-08-152]**16:45-17:15 Invited (5): Intersection of Nanophotonics and Chemical Nanocharacterization with Evolving Multiprobe SPM Tools,** A. Lewis, The Hebrew University of Jerusalem, Israel**17:15-17:30 Influence of hydroxyl content on second-order nonlinearity in thermally poled type-III fused silica,** Huai-Yi Chen, Ching-Li Chang, Hung-Yi Lin, Huafan University.....[Nano-08-189]**17:30-17:45 Scanning microscopy with superresolution: Frequency response function exceeding cutoff,** Jingsong Wei, Mufei Xiao, Centro de Ciencias de la Materia Condensada Universidad Nacional Autonoma de Mexico, USA.....[Nano-08-237]**18:30 Banquet****Tuesday, May 27, 2008****Characterization Session II****13:30-15:30****Room: Shang Yuan Hall, Fourth Floor of New Century Hotel****Session Chair:** Marek Samoc, Australian National University, Australia**13:30-13:45 Optical and electrical properties of ZnO films with different molar ratio of monoethanolamine to zinc acetate prepared by sol-gel method,** Chia-Lung Tsai, Yow-Jon Lin, National Changhua University.[Nano-08-065]**13:45-14:00 Controlling electromagnetic wave polarizations in visible-light frequency regime by magnetic resonance coupling,** J. X. Cao, H. Liu, T. Li, S. M. Wang, F. M. Wang, Z. H. Zhu, and S. N. Zhu, Nanjing University.....[Nano-08-074]**14:00-14:30 Invited(10): "All-in-one" 3D integration using a femtosecond laser – a "magic brush" in the micro/nano-world,** Ya Cheng, Zhizhan Xu, Koji Sugioka, and Katsumi Midorikawa, Shanghai Institute of Optics and Fine Mechanics**14:30-14:45 Surface phonon-polariton characteristics of bulk wurtzite InN,** S. S. Ng, Z. Hassan, H. Abu Hassan, Universiti Sains Malaysia, Malaysia..... [Nano-08-153]**17:30-17:45 Microscopic model of the extraordinary optical transmission,** Haitao Liu and Philippe Lalanne, Campus Polytechnique, France..... [Nano-08-172]**15:00-15:15 Nanocrystalline InN film grown on porous silicon/Si(111) substrate,** L.S.Chuah, Z.Hassan, S.S.Ng, H.Abu Hassan, Universiti Sains Malaysia, Malaysia..... [Nano-08-157]**15:15-15:30 Aggregation-induced two-photon fluorescence enhancement for novel dendrimers based on anthracen,** Yuan Ni, Deqiang Wang, Leizhu, Xiaomei Wang, Suzhou University.....[Nano-08-210]**15:30 to 15:45 Coffee/Tea Break**

Tuesday, May 27, 2008

Characterization Session III

15:45-18:00

Room: Shang Yuan Hall, Fourth Floor of New Century Hotel

Session Chair: A. Lewis, The Hebrew University of Jerusalem, Israel

15:45-16:00 The polarization based balanced heterodyne interferometer for quantum-noise-limited phase detection, Hui-Kang Teng, Nan-Kai Institute of Technology..... [Nano-08-037]

16:00-16:15 Dynamics of ferroelectric nano domain in BaTiO₃ observed as a real time correlation between two soft x-ray laser pulses, Kai Ji , Keiichiro Nasu, Kazumichi Namikawa, Graduate University for Advanced Studies, Japan..... [Nano-08-054]

16:15-16:45 Invited(12): Wide wavelength range measurements of absorptive and refractive nonlinearities in organics and organometallics: does the Kramers-Kronig transform work?, Marek Samoc, Anna Samoc, Marie P. Cifuentes and Mark G. Humphrey, Australian National University, Australia

16:45-17:00 The derivative fluorimetry analysis of new cluster structures formed by ethanol and water molecules, Bin Wu, Ying Liu, Xiao-Sen Luo, Jian Lu, Zhong-Hua Shen, Xiao-Wu Ni, Nanjing University of Science & Technology..... [Nano-08-057]

17:00-17:15 Quantum Well Number Effect and Characterization of InGaN/GaN Laser Diode S. M. Thahab, H. Abu Hassan, Z. Hassan, Universiti Sains Malaysia, Malaysia..... [Nano-08-154]

17:15-17:30 Nanoscale features of the current density in a mirror, Henk F. Arnoldus, Mississippi State University, USA..... [Nano-08-206]

17:30-17:45 Cleavage Luminescence from Cleaved Indium Phosphide, Dongguang Li, Clifton Smith, Edith Cowan University, Australia..... [Nano-08-240]

17:45-18:00 Annealing Induced Refinement on Optical Transmission and Electrical Resistivity of Indium Tin Oxide, Wei-Lun Hsu, Cheng-Tao Lin, Tzu-Huan Cheng, Shih-Chiang Yen, Chee-Wee Liu, Din Ping Tsai, Gong-Ru Lin, National Taiwan University..... [Nano-08-211]

18:00 Supper Time

Plasmonics Sessions

Tuesday, May 27, 2008

Plasmonics Session I

10:05-11:50

Room :Jian Kang Hall, Fourth Floor of New Century Hotel

Session Chair: Yidong Huang, Tsinghua University

10:05-11:35 Invited(7) Plasmonic nanophotonics, A. Zayats, Queen's University Belfast, Ireland

10:35-10:50 Resonant Tunneling Effects for Cavity Embedded Metal Film Caused by Surface Plasmon Excitations, Yung-Chiang Lan, Chang-Che Jung and Peng-Hsiao Lee, National Cheng Kung University..... [Nano-08-009]

10:50-11:05 Infrared Transmission Resonances of Nano-scale Periodic Metallic Structures, Jingyu Zhang, Wenjun Fan and S. R. J. Brueck, University of New Mexico, USA..... [Nano-08-035]

11:05 to 11:35 Invited(8) Surface Plasmon Resonance in Nanohole Arrays for Sensing Applications

Lin Pang and Yeshaiah Fainman, University of California San Diego, USA

11:35-11:50 LC and surface plasmon resonances for split ring structures, Ruey-Lin Chern, National Taiwan University..... [Nano-08-027]

12:05 to 13:05 Lunch Time

Wednesday, May 28, 2008

Plasmonics Session II

15:45-17:30

Room: Jian Kang Hall, Fourth Floor of New Century Hotel

Session Chair: Malgosia Kaczmarek, Southampton University, UK

15:45-16:15 (Invited 18) Phase modulation and plasmonic nanodevices, Xiangang Luo Chunlei Du, The Institute of Optics and Electronics, CAS,

16:15-16:30 Long Range Surface Plasmon Devices Design Using Subwavelength Metal Grating Zhi Wu, Robert L.Nelson,Joseph W. Haus,Qiwen Zhan,University of Dayton,USA.....[Nano-08-050]

16:30-16:45 Green's matrix method and resonance capacity of surface plasmon in the subwavelength metallic structures,Ying Gu, Liangliang Chen, Yan Wang, Haixi Zhang, and QihuangGong, Peking University..[Nano-08-076]

16:45-17:00 Tapered fiber-coupled surface plasmon-polariton whispering-gallery modes, Yun-Feng Xiao, Chun-Hua Dong, Christopher Favazza, Venkat Gaddam, Radhakrishna Sureshkumar, Ramki Kalyanaraman and Lan Yang, Washington University, USA.....[Nano-08-112]

17:00-17:15 Analytical investigation light through one-dimensional metallic gratings, Junxue Chen, Rong-Sheng Zheng, Kai-Qun Lin, Pei Wang, Hai Ming , University of Science and Technology of China.....[Nano-08-131]

17:15-17:30 Plasmonic structures for superfocusing, Yongqi Fu, Peng Huang, Hui Wang, Guojun Li, Chinese Academy of Sciences..... [Nano-08-148]

18:00 Supper Time

Thursday, May 29, 2008

Plasmonics Session III

8:30-10:15

Room :Jian Kang Hall, Fourth Floor of New Century Hotel

Session Chair: Xiangang Lou, The Institute of Optics and Electronics, CAS

8:30-9:00 Invited(22) Hybrid, liquid crystal-inorganic nanomaterials, M. Kaczmarek, I.C. Khoo, A. Buchnev, Southampton University, UK

9:00-9:15 Tunable Omnidirectional Surface Plasmon Resonance in Cylindrical Plasmonic Structure,Yi Wang, Bing Wang,Zhiping, Zhou,Huazhong University of Science and Technology.....[Nano-08-150]

9:15-9:30 Local Surface-plasmons Coupling Effect of several Nonspherical Metal Nanoparticles Chunchong Chen,Yonghua Lu,Pei Wang,Hai Ming,University of Science and Technology of China.....[Nano-08-184]

9:30-9:45 An Investigation on Surface Plasmon Assisted UV Near-field Scanning Microscope, Liangcheng Zhou, Qiaoqiang Gan, Volkmar Dierolf, Filbert Bartoli, Lehigh University, USA.....[Nano-08-188]

9:45-10:00 Characterize wavelength-dependent optical enhancements via surface plasmon polarization by NSOM of fiber-collection mode, Hsing-Ying Lin, Chen-Han Huang, Cheng-Hsiang Lin, Guan-Liang Chang, and Hsiang-Chen Chui, National Cheng Kung University..... [Nano-08-198]

10:00-10:15 Super resolution imaging with evanescent waves amplification and propagation in multi metallodielectric films, Changtao Wang, Chunlei Du, Xiangang Luo, Chinese Academy of Sciences.....[Nano-08-169]

10:15 to10:30 Coffee/Tea Break

Nanodevice Sessions

Tuesday, May 27, 2008

Nanodevice Session I

13:30-15:30

Room: Jian Kang Hall, Fourth Floor of New Century Hotel

Session Chair: Robert W. Boyd, University of Rochester, USA

13:30-14:00 Invited (9): Low power and picosecond optical switching performance of organic photonic-bandgap microcavity, Qihuang Gong, Peking University

14:00-14:15 High power InGaN LEDs with double-side textured surfaces and omni-directional mirror structure, Dong-Sing Wu, Shao-Hua Huang, Ray-Hua Horng, National Chung Hsing University [Nano-08-032]

14:15-14:30 Resonant tunneling in barrier-in-well structure and well-in-well structure, Jianghong Yao, Guozhi Jia, Yongchu Shu, Xiaodong Xing, Biao Pi, Zhanguo Wang, Jingjun Xun, Nankai University.....[Nano-08-033]

14:30-14:45 Performances of ZnO-based dye sensitized solar cells fabricated by hydrothermal synthesis and sol-gel technique, Li Zhu, Yuqing Fan, Maocong Zhao, Min Wu, Jiayu Zhang, Chunxiang Xu, Yiping Cui, Southeast University.....[Nano-08-075]

14:45-15:00 High Efficient Binary Blazed Grating Couplers for Fibers and SOI Planar Waveguides, Huaming Wu, Wenqin Mo, Junbo Feng, Zhiping Zhou, Huazhong University of Science and Technology.....[Nano-08-082]

15:00-15:15 Improvement of Carrier Confinement Using AlGaIn/GaN Multiquantum Barrier Layers in InGaIn Laser Diode, S. M. Thahab, H. Abu Hassan, Z. Hassan, Universiti Sains Malaysia, Malaysia.....[Nano-08-155]

15:15-15:30 Organic Field-Effect Transistors Based on Spin-Coated/Drop-Cast Poly (3-hexylthiophene) on Polymeric Gate Dielectrics, Xin Wang, Jiasheng Ru, Yiping Cui, Jingnan Liu, Shizuyasu Ochiai, Koji Yamamoto, Yoshiyuki Uchida, Teruyoshi Mizutani, Aichi Institute of Technology, Japan.....[Nano-08-213]

15:30 to 15:45 Coffee/Tea Break

Wednesday, May 28, 2008

Nanodevice Session II

13:30-15:15

Room: Shang Yuan Hall, Fourth Floor of New Century Hotel

Session Chair: Qiwen Zhan, University of Dayton, USA

13:30-13:45 GaN Schottky barrier photodiode with thin AlN cap layer, L.S. Chuah, Z. Hassan, H. Abu Hassan, N.M. Ahmed, Universiti Sains Malaysia, Malaysia..... [Nano-08-156]

13:45-14:00 1.55-um, mode-locked, single-longitudinal-mode, 10-GHz, 2-ps, ultra-short optical pulse train from our original semiconductor-based pulse-source scheme, Ryoichi Nakamoto, Hiroyuki Takeuchi, Jun Sakaguchi, Yoshiyasu Ueno, Univ. of Electro-Communications, Japan.....[Nano-08-191]

14:00-14:30 Invited(17): Beam Shaping by Polarization Engineering, James Leger, University of Minnesota, USA

14:30-14:45 Tolerance of polymeric microcavity laser against shape imperfections, Rui Zhang, Sergei Popov, Ari T. Friberg, Sergey Sergeyev, Royal Institute of Technology, Sweden.....[Nano-08-194]

14:45-15:00 Analysis of nanostructural waveguides using fourth-order accurate finite difference methods with nonuniform scheme, Yang Ji, Bin Feng Yun, Guohua Hu, Yiping Cui, Southeast University.....[Nano-08-220]

15:00-15:15 Luminescent-wavelength Tunable Silicon-rich Silicon Nitride LED on Silicon Nano-rod Array, Cheng-Tao Lin, Gong-Ru Lin, National Taiwan University.....[Nano-08-197]

15:30 to 15:45 Coffee/Tea Break

Wednesday, May 28, 2008

Nanodevice Session III

15:45-17:30 Room: Shang Yuan Hall, Fourth Floor of New Century Hotel

Session Chair: Peter Powers, University of Dayton, USA

15:45-16:00 Influences of photonic crystal waveguide on divergence angle of VCSEL, Anjin Liu, Ke Wang, Hongwei Qu, Mingxin Xing, Gang Ren, Wenjun Zhou, Wei Chen, Yejin Zhang, Lianghui Chen, Wanhua Zheng, Chinese Academy of Sciences.....[Nano-08-063]

16:00-16:15 Loss suppression of waveguide taper by photonic crystals partial bandgap, Jin Hou, Dingshan Gao, and Zhiping Zhou, Huazhong University of science and Technology..... [Nano-08-080]

16:15-16:45 Invited(20) Terahertz and Optical Studies, D. S. Kim, Seoul National University, Korea

16:45-17:00 Nanoscale Displacement Of The Image Of An Atomic Source Of Radiation, Xin Li, Mississippi State University, USA.....[Nano-08-205]

17:00-17:15 Design of fiber-chip coupling alignment with intergrated shape-memory alloy thin film technique, Jingping Zhu, Yaohui Chen, Shuping Li and Xiangdiao Deng, Xi'an Jiaotong University.....[Nano-08-225]

17:15-17:30 TiOPc/C60 mixed films with photovoltaic properties for near-infrared detective applications, Xi Zhang, Yao Guo, Hao Zhou, Changgui Lu, Yiping Cui, Southeast University.....[Nano-08-232]

18:00 Supper Time

Nanosensor Session

Tuesday, May 27, 2008

Nanosensor Session

15:45-18:00 Room: Sheng Zhou Hall, Fourth Floor of New Century Hotel

Session Chair: A. Zayats, Queen's University Belfast, Ireland

15:45-16:00 Design and application of a novel distributed fiber laser sensors, Weimin Sun, Tianhua Zhang, Harbin Engineering University.....[Nano-08-091]

16:00-16:15 Photonic Crystal Fiber SERS Sensors via Self-Assembly of Au Nanoparticles, Zhiguo Xie, Yonghua Lu, Hai Ming, University of Science and Technology of China..... [Nano-08-097]

16:15-16:30 Numerical and experimental investigation of temperature effects on the surface plasmon resonance sensor, Kaiqun Lin, Yonghua Lu, Ming Hai, University of Science and Technology of china [Nano-08-121]

16:30-16:45 RF-MBE growth of GaN on sapphire for gas sensing application, C.W.Chin, Z.Hassan, F.K.Yam, Universiti Sains Malaysia, Malaysia.....[Nano-08-161]

16:45-17:15 Invited (13): Towards single molecule sensitivity in tip-enhanced Raman spectroscopy, Prabhat Verma, Osaka University, Japan

17:15-17:30 A sensor-on-chip based on second-order optical effect of ZnO nanowires, Jing Zhu, Guangping Zhu, Changgui Lu, ChunXiang Xu and Yiping Cui, Southeast University.....[Nano-08-215]

17:30-17:45 Immobilisation of Calix[4]Arene Onto Modified Self Autoassembled Monolayer Gold Surface for Alkali Ions Detection, M. Benounis, N. Jaffrezic, I. Dumazet-Bonnamour, R. Lamartine, University of Guelma, Algeria.....[Nano-08-041]

17:45-18:00 Waveguide Grating Sensor, Fei Sun,Zhiping Zhou, Huazhong University of Science and Technology.....[Nano-08-231]

18:00 to 19:00 Supper Time

Biophotonics Session

Wednesday, May 28, 2008

Biophotonics Session

10:05-12:05

Room :Jian Kang Hall, Fourth Floor of New Century Hotel

Session Chair:Lin Pang, University of California San Diego, USA

10:05-10:20 The DNA distribution of cDNA Microarray Probe Spots, Chien-ming Wu, Kuang Hong Cheng, and Ian C. Hsu, National Tsing Hua University..... [Nano-08-036]

10:20-10:35 Two-photon imaging of TiO₂-molecular nanoprobe in living cells, Peter E. Powers, Qiwen Zhan, Shuangyang Yang, Jay M. Johnson, Elmo A. Blubaugh, Meagan A. Roddy, University of Dayton, United States..... [Nano-08-118]

10:35-11:05 Invited(15): Near-field visualization of plasmons on gold nanoparticles,Hiromi Okamoto, Kohei Imura, Institute for Molecular Science, Japan

11:05-11:20 Surface-Enhanced Raman Spectroscopy on Gold Nano-particle Functionalized Metallic Surface with Surface Plasmon Resonance Biosensing Capability, W. Yuan, H.P. Ho, Y.K. Suen and S.K. Kong, University of Hong Kong..... [Nano-08-244]

11:20-11:35 Observation of cytoskeleton rising of rat synoviocytes under the influence of PMA with AFM, Leiting Pan, Wenwu Sun, Fen Hu, Jiwei Qi, Xian Wu, Xinzheng Zhang and Jingjun Xu, Nankai University.....[Nano-08-002]

11:35-11:50 FEL applications in biomedical investigations, E.Aghabalaiee Khordechi1, K.Maghooli, Islamic Azad University, Iran.....[Nano-08-023]

11:50-12:05 Characterization of thermally responsive nano-hydrogel for in vivo imaging in mouse model, Jian Zhang, Haiyan Chen, Yueqing Gu, China Pharmaceutical University [Nano-08-043]

12:05 to 13:05 Lunch Time

Nanoparticles Sessions

Wednesday, May 28, 2008

Nanoparticles Session I

13:30-15:30

Room :Jian Kang Hall, Fourth Floor of New Century Hotel

Session Chair: Wenfang Sun, North Dakota State University,USA

13:30-14:00 Invited(16): Nonlinear optical properties of nanoparticles in hybrid materials, Ying Fu, Royal Institute of Technology, Sweden

14:00-14:15 Monte Carlo simulations of the formation of speckles with nanofluids, Ming Qian,Xiaowu Ni,Zhonghua Shen,Jian Lu,Qiang Li, Yimin Xuan,Nanjing University of Science and Technology.....[Nano-08-031]

14:15-14:30 Beam coupling characteristics in nematic liquid crystal doped with silver nanoparticles, Yongyuan Jiang, Jing Li, Linyi Huang, Harbin Institute of Technology.....[Nano-08-064]

14:30-14:45 Temperature Effects on Localized Surface Plasmon Resonance of Gold Nanorods, Jun Tao, Rong-Sheng Zheng, Kai-Qun Lin, Yong-Hua Lu, Hai Ming, University of Science and Technology of China.....[Nano-08-130]

- 14:45-15:00 Wavelength dispersion of nonlinear dielectric function of metal nanoparticle materials**, Yoshihiko Takeda, Hiroyoshi Momida, Masato Ohnuma, Takahisa Ohno, Naoki Kishimoto, National Institute for Materials Science, Japan.....[Nano-08-136]
- 15:00-15:15 The analyses of the optical trapping force and torque on the cylindrical nanoparticles**
Xuecong Li, Xiudong Sun, Jianlong Zhang, Harbin Institute of Technology..... [Nano-08-145]
- 15:15-15:30 Configure Magnetic nanoparticles in a fluid: magnetic field assisted self-assembly pattern formation**, Ziyun Di, Xianfeng Chen, Shanghai Jiaotong University.....[Nano-08-207]

Thursday, May 29, 2008

Nanoparticles Session II

10:30-12:00

Room: Jian Kang Hall, Fourth Floor of New Century Hotel

Session Chair: Ying Fu, Royal Institute of Technology, Sweden

10:30-11:00 Invited(24) Optoelectronic functions of nanostructural ZnO, C. X. Xu, G. P. Zhu, B. X. Gu, J. Zhu, K. Zheng, C. G. Lu, S. Q. Liu, X. W. Sun, Y. P. Cui, Southeast University, China

11:00-11:15 Aggregation Effect on the Nonlinear Optical Properties of Gold Nanoparticles and Hybrids, Wenfang Sun, Gang Wang, Pin Shao, Qiu Dai, Qun Huo, North Dakota State University, USA....[Nano-08-242]

11:15-11:30 Photochromic Induced Fluorescence Resonance Energy Transfer In Manganese Doped Zinc Selenide Nanocrystals, S. Emin, N. Sogoshi and S. Nakabayashi, Saitama University, Japan.....[Nano-08-132]

11:30-11:45 Nonlinear Absorption and Optical Limiting Effects in Porphyrin Covalently Functionalized Single-Wall Carbon Nanotubes, Zhi-Bo Liu, Jian-Guo Tian, Zhen Guo, Dong-Mei Ren, Jian-Yu Zheng, Nankai University.....[Nano-08-142]

11:45-12:00 Study the phase-response effect of size-dependent optical enhancement in a single silver nanoparticle, Chen-Han Huang, Hsing-Ying Lin, Cheng-Hsiang Lin, Hsiang-Chen Chui, National Cheng Kung University.....[Nano-08-196]

12:00 to 13:00 Lunch Time

Metamaterials Session

Wednesday, May 28, 2008

Metamaterials Session

15:45-18:00

Room :Sheng Zhou Hall, Fourth Floor of New Century Hotel

Session Chair: Xiang Zhang, University of California at Berkeley, USA

15:45-16:15 Invited(19): Waves transport and localization in all dielectric metamaterials, Didier Felbacq, University of Montpellier, France

16:15-16:30 Periodic Anisotropic Metamaterial for Field Enhancement and Negative Index Applications, Michael A. Fiddy, University of North Carolina, USA.....[Nano-08-072]

16:30-16:45 Negative refraction and far-field imaging with nano surface gratings on dielectric slab, Dingshan Gao and Zhiping Zhou, Huazhong University of science and Technology.....[Nano-08-084]

16:45-17:15 Invited(20) Negative and positive refractions of light transmitted at the metal-based interface in the visible range, Liang-Yao Chen, Fudan University

17:15-17:30 Guiding characteristics of an air waveguide with left-handed metamaterials cladding, Jiang Yongyuan, Shen Zongjing, Harbin Institute of Technology..... [Nano-08-089]

17:30-17:45 Excitation and dispersion of magnetic plasmon polariton in fishnet metamaterial
T. Li, H. Liu, S. M. Wang, F. M. Wang, J. Q. Li, S. N. Zhu, Nanjing University.....[Nano-08-095]
17:45-18:00 Study on Structure Parameters of Optical Hyperlens, Jigang Hu, Pei Wang, Yong Cao and Hai Ming, University of Science and Technology of China..... [Nano-08-185]
18:00 to 19:00 Supper Time

Poster Sessions

The excellent poster session is scheduled in Tuesday evening from 19:00 to 21:00. The following posters will be displayed. All poster authors should set up between 17:00 to 18:30, Tuesday. Authors (Belong to Poster session I) are required to be present for discussion at the Poster Session from 19:00 to 20:00; Authors (Belong to Poster session II) are required to be present for discussion at the Poster Session from 20:00 to 21:00.

Poster Session I

Tuesday, May 27, 2008

Poster Session I

19:00 to 20:00

Room: Da Cheng Hall, Second Floor of New Century Hotel

Effect of substrate temperature on microstructure and optical Properties of ZnO nanocrystalline thin films
Lin-Hua Xu, Xiang-Yin Li, Jun Yuan, Nanjing university of science and technology.....[Nano-08-003]
Modulation of CO₂ laser intensity with nonequilibrium carries in Germanium crystal
Shaorong Xiao, Bo Zhang, Xiaoli Mao, Nanjing university of information science & technology...[Nano-08-007]
Synthesis, Photophysical Properties and Two-Photon absorption of Triphenylamine Multipolar Chromophores
Ying Qian, Kang Meng, Kaiming Hu, Wei Huang, Changgui Lu, Yiping Cui, Southeast University.....[Nano-08-010]
Synthesis, characterizations and thermal-optic properties of poly (urethane-imide)
Fengxian Qiu, Jingli Zhang, Dongya Yang, Pingping Li, Jiangsu University.....[Nano-08-011]
Synthesis and electro-optic property of intercalation polyimide and nanohybrid
Dongya Yang, Fengxian Qiu, Wei Zhang, Guorong Cao, Jiangsu University.....[Nano-08-012]
Synthesis, characterizations and electro-optical properties of nonlinear optical polyimide/SiO₂ hybrids
Zulin Da, Fengxian Qiu, Qing Zhang, Dongya Yang, Guorong Cao, Jiangsu University....[Nano-08-013]
Synthesis and third-order nonlinear optical property of poly (urethane-imide)
Fuhong Zhu, Fengxian Qiu, Jingli Zhang, Dongya Yang, Rongxian Zhang, Jiangsu University [Nano-08-014]
Preparation and size characterization of silver nanoparticles produced by femtosecond laser ablation in water
Fei Bian, Xinzheng Zhang, Zhenhua Wang, Qiang Wu, Hao Hu, Jingjun Xu, Nankai University.....[Nano-08-016]
The Third- and Fifth-Order Nonlinear Refraction in the Single- and Double-sided TMAF/PSS Electrostatic Self-assembly Films

- Qiuyun Ouyang, Xueru Zhang, Yinglin Song, Harbin Engineering University.....[Nano-08-019]
Heat transfer in fusion splicing process for microstructured optical fibres with laser heat source
- Guangwei Fu, Weihong Bi, Wa Jin, Shuo Ma, YanShan University.....[Nano-08-025]
Study on Temperature Distribution in Cells Irradiated by Focusing Short-Pulse Laser
- Ya-Wei Wang, Ying Liu, Guang-Cai Han, Li-Feng Wang, Min Bu, Xiao-Nong Cheng, Jiangsu University..... [Nano-08-030]
Charge transport process in Mn-doped near-stoichiometric lithium niobate
- Xiaoqi Zhang, Youwen Liu, Wenle Weng, Congjun He, Nanjing University.....[Nano-08-048]
Synthesis, fluorescence, and thermal stabilities of symmetrical TPA chromophores containing 1,3,4-oxadiazole group
- Zhu Xiaoqin Qian Ying, Southeast University..... [Nano-08-052]
Research on mechanism of spatiotemporal distribution of laser ablated materials, Rongqing Xu , Yiping Cui, Jian Lu , Xiaowu Ni, Southeast University..... [Nano-08-055]
The design of high polarization and single-mode photonic crystal laser
- Wei Chen, Mingxin Xing, Gang Ren, Wenjun Zhou, Anjin Liu, Yejin Zhang, Lianghui Chen, Wanhua Zheng, Chinese Academy of Sciences.....[Nano-08-061]
Tunable resonance based on dual microring resonators
- Huaxiang Yi, Zhixuan Xia, Zhiping Zhou, Huazhong University of Science and Technology.....[Nano-08-066]
Dynamics of laser-induced cavitation bubble near a solid boundary
- Rui Zhao, Zhong-cheng Liang, Rong-qing Xu, Jian Lu, Xiao-wu Ni, Nanjing University of Posts & Telecommunications.....[Nano-08-068]
Optical Limiting Behavior of C60/polymethyl methacrylate film
- Lei Ma, Yundong Zhang, Ping Yuan, Harbin Institute of Technology.....[Nano-08-070]
Design and fabrication of high-density binary fused-silica 1x3 beam splitter grating
- Jijun Feng, Changhe Zhou, Bo Wang, Jiangjun Zheng, Chinese Academy of Sciences.....[Nano-08-071]
Dielectrophoretic assembly of ZnO nanowires
- M.C.Zhao, G.H.Hu, H.Zhou, K.Zheng, G.P.Zhu, C.X.Xu, Y.P. Cui, Southeast University.....[Nano-08-078]
Fabrication of photonic crystal fiber by means of taper tower
- Weimin Sun, Xiaoqi Liu, Jianzhong Zhang, Yancheng Zhao, Qiang Liu, T.A. Birks, Harbin Engineering University.....[Nano-08-092]
Effects of parameter modulation on near-field imaging in photonic crystal consisting of alternately left-handed material and right-handed material
- Qiong Wang, Changchun Yan, Lingling Zhang , Yiping Cui, Southeast University.....[Nano-08-094]
Submicron domain inversion in Mg-doped LiNbO₃
- He Zhan, Yunlin Chen, Tianlin Chen, Gang Liu, Bo Zhou, Nankai University.....[Nano-08-096]
Disorder and localization length of the Bragg microcavity composed of one-dimension photonic crystal
- Gai-ge Zheng, Xiang-yin Li, Nanjing University of Science & Technology.....[Nano-08-100]
Investigation of EWOD properties on the core-surface of optofluidic lens-array
- Peng Yang, Hengjie Xin, Jing Li, Zhongcheng Liang, Rui Zhao, Nanjing University of Posts & Telecommunications..... [Nano-08-101]
Nonlinear refraction and photoinduced birefringence in the methyl red doped polymer thin film
- Xiaoqiang Zhang, Changshun Wang, Xu Pan, Shanghai Jiaotong University.....[Nano-08-102]
Coupling characteristics of multi-core photonic crystal fibers
- Chunying Guan, Libo Yuan, Harbin Engineering University.....[Nano-08-104]
Study of the inverse relaxation of birefringence in a LC azobenzene polymer
- Xu Pan, Changshun Wang, Xiaoqiang Zhang, Shanghai Jiao Tong University.....[Nano-08-105]
Study of Laser-Induced Plasma Shock Waves by the Probe Beam Deflection Technique

- Yan Qian, Jian Lu, Zhonghua Shen, Xiaowu Ni, Nanjing University of Science & Technology. [Nano-08-108]
Dual-channel Characteristic of the Submicron Grating
 Yan Ye, Linsen Chen, Soochow University.....[Nano-08-113]
Upconversion luminescence of Li⁺ and Er³⁺ co-doped Y₂O₃ nanocrystals
 Yunxiang Wang, Yunfeng Bai and Yinglin Song, Soochow University..... [Nano-08-116]
The study of Annular Photonic Crystal slab, Ryan Hao, Hamza Kurt, Dingshan Gao, Zhiping Zhou, David S. Citrin, Huazhong University of Science and Technology..... [Nano-08-120]

Poster Session II

Tuesday, May 27, 2008

Poster Session II

20:00 to 21:00

Room: Da Cheng Hall, Second Floor of New Century Hotel

- Enhanced fluorescence emission from dye doped polymer using Local Surface Plasmon**
 Jie Yan, Yonghua Lu, University of Science and Technology of China.....[Nano-08-123]
An Image Interception Algorithm for Data Page of Multilayered Waveguide Optical Card
 Chuan-jia Lin, Yun-ping Qian, Min-fen Gu, Zhong-cheng Liang, Nanjing University of Posts and Telecommunications..... [Nano-08-133]
Simulation and properties analysis of sculptured thin films for applications
 Mengying Yu, Jijia Tang, Yuwei Wei, Shaoji Jiang, Sun Yat-sen University..... [Nano-08-139]
1-to-2 photonic crystal wavelength de-multiplexer base on multi-mode interference
 Ling-Ling Zhang, Jia-Yu Zhang, Qiong Wang, Li-Xin Zhou, Chang-Gui Lu, Zhi-bing Wang, Yi-Ping Cui, Southeast University.....[Nano-08-141]
Analysis of the influence of the radius of incident laser beam on the radius of melting area of GaAs and InSb irradiated by long-pulse high-power laser
 Weihuan Ding, Zhonghua Shen, Jian Lu, Xiaowu Ni, Nanjing University of Science & Technology.[Nano-08-146]
Finite element analysis of the thermal interaction between the long pulse high power laser and semiconductor InSb and GaAs
 Weihuan Ding, Zhonghua Shen, Jian Lu, Xiaowu Ni, Nanjing University of Science & Technology[Nano-08-147]
Modeling and Analysis of Commonpath Phase Shifting Shear System Based on Birefringent Optical Devices
 Wang Hongjun, Xi'an Jiaotong University.....[Nano-08-151]
Coherent control of spontaneous emission near the edge of photonic band gap in a four-level atomic system
 Xiangqian Jiang, Xiudong Sun, Harbin Institute of Technology.....[Nano-08-158]
Laser aligning and rotating of carbon nanotube bundles
 Xiudong Sun, Jianlong Zhang, Xuecong Li, Harbin Institute of Technology.....[Nano-08-160]
Influence of standing wave in metal-Oxide thin films during long pulse laser irradiation,
 Gang Dai, Yanbei Chen, Jian Lu, Zhonghua Shen, Xiaowu Ni, Southeast University..... [Nano-08-162]
Anisotropic discrete surface solitons in nonconventionally biased photorefractive crystals
 Fajun Xiao, Peng Zhang, Sheng Liu, Jianlin Zhao, Northwestern Polytechnical University.....[Nano-08-164]
Directional excitation of surface plasmons with subwavelength slits
 Ting Xu, Chunlei Du, Xiangang Luo, Chinese Academy of Science.....[Nano-08-167]
Super resolution imaging by combining positive and negative refraction in metallodielectric films structure
 Yanhui Zhao, Changtao Wang, Chunlei Du, Xiangang Luo, Chinese Academy of Sciences.....[Nano-08-170]

Studies of Microwave Scattering by Fluorescent Lamp Plasma

Xiang He, Jianping Chen, Ying Wu, Yudong Chen, Xiaojun Zeng, Haichao Qin, Xiaowu Ni, Nanjing University of Science & Technology.....[Nano-08-173]

Experimental Research on Column Plasma as Electromagnetic Reflectors and Absorbers

Xiang He, Jianping Chen, Ying Wu, Yudong Chen, Xiaojun Zeng, Haichao Qin, Xiaowu Ni, Nanjing University of Science & Technology.....[Nano-08-174]

Effect of initial phase difference on spontaneous emission of an atom embedded in photonic crystal

Zhang Bing, Sun Xiudong, Harbin Institute of Technology..... [Nano-08-175]

Patterned growth of ZnO nanofibers for electronic device design

K. Zheng, C.X. Xu, Southeast University.....[Nano-08-176]

Techniques for nanoscale imaging and measurement by digital holographic microscopy

Huaying Wang, Xiufa Song, Dayong Wang, Jie Zhao, Hebei University of Engineering.....[Nano-08-186]

The nonlinear optical properties of a metal-nonlinear dielectric multilayer structure

Yan Deng, Pei Wang, Guanghui Yuan, Yonghua Lu, Hai Ming, University of Science and Technology of China..... [Nano-08-187]

Photoluminescence of electrospun poly-methyl-methacrylate:Alq₃ composite nanofibers

KQ Tong, CX Xu, Southeast University..... [Nano-08-201]

Laser Direct Writing of Long Period Fiber Grating (LPFG) by Femtosecond Laser Pulses

Yi Huang, Shuangchen Ruan, Yongqin Yu, Chenlin Du, Shenzhen University.[Nano-08-203]

Impacts of structural dispersion on transmission spectra of one-dimensional photonic crystal coupled defect structures fabricated on slab waveguides

Xu-Sheng Lin, Li-Jun Wu, Qi Guo, Wei Hu, Sheng Lan, South China Normal University.....[Nano-08-204]

Thickness Dependence of Third-Harmonic Generation from Poly(3-hexylthiophene) Thin Films on Quartz Glasses with Surface Modification

Xin Wang, Yiping Cui, Jingnan Liu, Shizuyasu Ochiai, Yu Yamada, Yoshiyuki Uchida, and Teruyoshi Mizutani, Aichi Institute of Technology, Japan.....[Nano-08-214]

8-hydroxyquinoline aluminum nanostructure film fabricated with cluster-beam evaporation

Yao Guo, Zhi-Bing Wang, Jia-Yu Zhang, Li-Xin Zhou, Yi Qiao, Yi-Ping Cui, Southeast University [Nano-08-217]

Evanescent waves of an annular left-handed material lens

Changchun Yan, Yiping Cui, Qiong Wang, Changgui Lü, Southeast University.....[Nano-08-221]

Stimulated emission from a TiO₂ nanoparticles-dispersed dye polymer waveguide

Qiong Wang, Lihua Ye, Jun Xi, Changgui Lu, Guohua Hu, Min Fang, Yiping Cui, Southeast University.....[Nano-08-226]

Amplified Spontaneous Emission of Organic Pyridium Dye doped Polymeric Waveguide

Jun Xi, Lihua Ye, Qiong Wang, Changgui Lu, Guohua Hu, Min Fang, Yiping Cui, Southeast University.....[Nano-08-227]

Study on the transient behaviors of CdSe quantum dots

Fanliang Kong, Jiangfeng Luan, Changgui Lu, Yiping Cui, Southeast University.....[Nano-08-229]

Wavelength multicasting based on four-wave mixing in highly nonlinear fibers

Shiming Gao, Ying Gao, and Xiangrui Miao, Zhejiang University..... [Nano-08-230]

Study on Synthesization and Optical Characters of ZnS Quantum Dots

Kaidi Zhou, Songjie, Chenkai, Lijuan Zhao, Yuhua, Nankai University.....[Nano-08-234]

Design of oblate cylindrical perfect lens and superlens with multilayer structure

Wei Wang, Lan Lin, Chunlei Du, Xiangang Luo, Institute of Optics and Electronics, Chinese Academy of Sciences.....[Nano-08-261]

Study of InSbN semiconductor for long Infrared photodetection

D. H. Zhang, Y. Wang, X. Z. Chen, W. Liu and J. H. Li, Nanyang technological University, Singapore.....[Nano-08-262]

General information

Logistics

Nano08 will be held on May 26-29, 2008 in Nanjing, Jiangsu, China. The symposium will be held at The New Century Hotel located in the Xuanwu district.

Sponsorship

Sponsored By

The Optical Society of America (OSA)

The Chinese Optical Society (COS)

The National Science Foundation of China

Southeast University

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Registration and Information Time

Sunday, May 25, 2008 9:00am to 6:00 pm

Monday, May 26, 2008 8:30am to 10:00 am

Insurance

The organizers cannot be responsible for personal accidents or material damage that may occur to the participants or their possessions during the conference, or tours. All participants are advised to make their own arrangements for health and travel insurance before commencing their journey to the conference.

Official Language

The official language of Nano2008 is English.

Presentation Equipment

The multimedia projector (computer projector) will be available in all of the meeting rooms.

Secretariat Office/Slides Rehearsal

The location and open hours will be announced on the Nano2008 websites

<http://photontech.seu.edu.cn/OSAconference/news.html>

They will also be posted at the convention center.

Banquet

A banquet will be held on May 26 starting at 18:30 in The New Century Hotel .

Ticket Service

It is located on the first floor of the attached building of The New Century Hotel that will book tickets for coach, ship, train and airplane for you.

Travel Information

Visa to China:

Usually, the normal letters of invitation that have been sent to the participants can be used to obtain an entry visa to China. In case of need, special letters of invitation for visa applications can be provided upon request from the secretariat.

Nano08 Secretariat

Fax: +86-25-83601769-838

Email: Photonics@seu.edu.cn

Weather

May is considered the “golden month” in Nanjing, The weather is almost perfect with sunny days and comfortable temperatures. The average daily temperature is about 28° (78F)。 The average evening temperature is about 20°.

Access to Conference Site and Hotel

Firstly, you should choose to arrive in Shanghai, Hong Kong or Beijing. If you arrive in Hong Kong or Beijing, you can come to Nanjing by air, then take an airport shuttle bus and taxi to New Century Hotel. If you arrive in Shanghai, you can come to Nanjing by train.

1、 From Nanjing LuKou International Airport to Nanjing New Century Hotel



Route 1:

Directly take a taxi from the airport to the hotel. The distance from the airport to the **New Century Hotel** (新世纪大酒店) is about 48 kilometers, the trip will cost about **RMB 150** and one hour.

Please show the following words to the Taxi driver

请把我带到南京火车站附近的新世纪大酒店，谢谢！

Route 2:

Take the airport shuttle bus to the **Yu Hua plaza** (雨花广场), the trip will cost about **25** RMB and 30 minutes; Then take a taxi to the New Century Hotel, the trip will cost about **32** RMB and 30 minutes.

How to find the airport shuttle bus? Please show the following words to the Inquiry Office staff member.

请把我带到机场大巴售票处，谢谢！

Then as you want to go to **Yu Hua plaza**, please show the following words to the airport shuttle bus driver.

请提醒我到雨花广场下车，谢谢！

When you get off at **Yu Hua plaza**, you can take a taxi to the hotel, please show the following words to the Taxi driver

请把我带到南京火车站附近的新世纪大酒店，谢谢！

From Nanjing Railway Station to Nanjing New Century Hotel



After you out of the railway station, please turn left and walk for about 250 meters you will arrived in the New Century Hotel.

Nanjing Attractions



Nanjing, a well-known ancient and beautiful city with 2470 year's history in the eastern China. There were 10 dynasties anchoring their capitals there. Qin Huai River, Dr.Sun Yat-sen's Mausoleum, Xiaoling Tomb of the Ming Dynasty (The World Cultural Relics). It is a renowned historical and cultural city in the world with hills, lakes, its city walls, and forests all blended in perfect harmony. All of these gold-shine interests have wonderful fames all over the world. Apart from that, Nanjing is developing rapidly and great

changes are continuously taking place there. Skyscrapers, luxury hotels, fashion shopping malls, supermarkets and department stores are everywhere to be seen in the city. You can get more minute information of Nanjing City Guide from the following index:



Dr. Sun Yat-sen's Mausoleum

Dr. Sun Yat-sen's Mausoleum is situated on the southern slope of the Zijinshan Mountain (Purple Gold Mountain) in the eastern suburb of of Nanjing. The remains of Dr. Sun, who was a pioneer of Chinese democratic revolution was buried here on June 1, 1929. The mausoleum, shaped like an alarm bell, is built at the foot of the mountain. A feeling of respect may be aroused when climbing by the steps.

The Sacrificial Hall is the major part of the mausoleum, integrating the Chinese and western architectural styles. It is 29 meters high, 30 meters long and 25 meters wide. On the

door of the hall inscribed the six characters of Nation, Civilian Rights and People's Life. There is a horizontal board inscribed with the words of "Healthy Trends Under Heaven" written by Dr. Sun Yat-sen on top of the middle door. A statue of Dr. Sun Yat-sen, designed by a French artist, was instituted at the center of the hall. Six relief sculptures were carved at the base of the statue, on which the revolutionary activities of Dr. Sun Yat-Sen were recorded. Besides, the resorts in the Mausoleum scenic area also include the Concert Platform, Lihui Waterside Pavilion, Classics Tower and Guanghua Pavilion.

The Confucius Temple



Nanjing Confucius Temple, located on the north bank of the Qinhuai river, is the holy shrine of Confucius, the outstanding ancient Chinese philosopher and thinker. The temple was first built in the Song dynasty. The Confucius Temple-centric area is a famous river scenery resort in Nanjing. Over the past 1800 years, it has remained one of most prosperous places of Najing, and rated as one of the top 40 tourist attractions in 1990.

Nanjing Specialties

Yu Hua Pebbles

The colorful fine-grained pebbles formed in the Yuhuai area at Nanjing are "worth a hundred taels of gold" as an ancient saying goes. Yuhua pebbles, souvenirs for tourism, are peculiar to Nanjing. Yuhua pebbles, solid quality, are precious stones made of a combination of quartz, marrow jade and opal. Learned people are inclined to put Yu Hua pebbles into water basin and then place it on their tables.



晓钟藏石
有始终
无穷尽
化作一梦
世象变幻
玉质中
翠色深藏
石玲珑
出自天山
通灵宝玉

Nanjing Yun (Cloud) Brocade

One of China's three famous brocades, it was used exclusively by the imperial houses or as gifts bestowed by the emperors on princes or senior officials. Today it is still woven by hand with traditional knowhow. The Nanjing "Yunjin" Silk Brocade is one of the three brocades well-known in China and abroad. Its elegant and refined design with beautiful colors reminiscent of clouds in the sky. So it's named "Yunjin" (cloud brocade or cloud silk).



Salted Nanjing duck

As a special local product of great reputation, the salted Nanjing duck has a long history of more than one thousand years. With white skin, fat but not greasy meat and good taste, it is appetizing, crisp and delicate, which forms its characteristics. The salted luxuriantly. Thus the duck wins a good name of 'osmanthus duck'. The Baimen Recipes says, 'Every August in Jinling, the salted duck is the most popular food, because everyone can smell the fragrance of osmanthus in its meat.

ducks of the best color and taste appear around the Mid-autumn Festival, when the osmanthus bloom



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