

Programme of ISIST 2008

Sep. 16, 2008

8:20 ~ 8:40					Opening Ceremony					
		Opening Speech			Prof Jiubin TAN					
		Congratulation			Dr. Guobiao Wang		NSFC			
		Congratulation			Vice-president of Shenyang University of Technology					
8:40 ~ 8:55					Coffee Break					
8:55 ~ 11:50					Plenary Session I					
		8:55 ~ 9:50			Nanoimprint lithography – An Enabling Engine to Nanotechnology		Prof. Stephen Y.Chou		Princeton University, USA	
		9:50 ~ 10:45			Absolute Distance Interferometry using Diode Lasers		Prof. Dr A. Abou-zeid		PTB, Germany	
		10:45 ~ 11:40			Gradient-index Materials Manufacturing in Nature and Manmade		Prof. Duncan T. Moore		University of Rochester, USA	
11:40- 12:10					Photography					
12:10 ~ 13:30					Lunch					
13:30 ~ 15:10					Plenary Session II					
		13:30 ~ 14:25			Making Light Work in Microscopy		Prof. Tony Wilson		University of Oxford, UK	
		14:25 ~ 15:20			Overview of optical design technology		Prof. Jose Sasian		University of Arizona, USA	
15:20 ~ 15:35					Coffee Break					
15:35 ~ 17:15					Plenary Session III					
		15:25 ~ 16:20			A Review for Orthogonally Polarized Lasers and Applications in Metrology		Prof. Shulian Zhang		Tsinghua University	
		16:20 ~ 17:15			Advanced Optical Precision Metrology using Ultrashort Femtosecond Pulse Lasers		Prof. Seung-woo Kim		KAIST, Korea	

Sep. 17, 2008

Time	Room 1	Room 2	Room 3	Room 4
8:00~10:00	Session 7: Advanced Optic Measurement Techniques (1)	Session 11: Nanotechnology and MEMS (1)	Session 15: Laser Measurement Techniques and Instruments (1)	Session 2: Instruments and Systems (1)
10:00~10:15	Coffee Break			
10:15~12:15	Session 8: Advanced Optic Measurement Techniques (2)	Session 12: Nanotechnology and MEMS (2)	Session 16: Fiber Measurement (Invited Session)	Session 3: Instruments and Systems (2)
12:15~13:30	Lunch			
13:30~15:30	Session 9: Optoelectronic System Design and Optoelectronic Instruments (1)	Session 13: Nanotechnology and MEMS (3)	Session 1: Instrument Science Fundamental Theory and Methodology	Session 4: Sensors and Converters (1)
15:30~15:45	Coffee Break			
15:45~17:45	Session 10: Optoelectronic System Design and Optoelectronic Instruments (2)	Session 14: Holography and Diffraction Optics and Instruments	Session 6: Signal and Image processing (1)	Session 5: Sensors and Converters (2)

Session 1: Instrument Science Fundamental Theory and Methodology (Sep.17, 2008)

Invited Paper (1-22)	Wenmei Hou, Wenbo Cui	Advanced Research on Nonlinearity in heterodyne interferometer	University Shanghai for Science and Technology
Invited Paper (1-7)	Ulrich Neuschaefer-Rube Wiebke Ehrig, Michael Neugebauer and Klaus Wendt	Test Procedures and Artefacts for Optical Coordinate Metrology	Physikalisch-Technische Bundesanstalt (PTB)
1-15	Dong Yanjun,Zhang Xiaobin	Research of Zero Crossing Point Real-time Detecting of Quasi-Sinusoidal Signal	Northwestern Polytechnical University
1-23	Wang Qian,WU jian-jin,LI Dong-sheng	Self-excited vibration of aerostatic bearings under flow/structure coupled conditions	China Jiliang University
1-1	Zhou Mei-lan,Bin Zhang, Jiabin Wen	Speed ratio control for cars equipped with metal v-belt continuously variable transmission	Harbin University of Science and Technology
1-4	Qunfen Qi ,Xiaojun Liu, Xiangqian Jiang	Function and three dimensional parameters of surface texture	Huazhong Univ. of Sci. & Tech.; Univ. of Huddersfield

Session 2: Instruments and Systems (1) (Sep.17, 2008)

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Invited Paper (2-49)	Yoshikazu ARAI, Akinori INADA and Wei GAO	Precision measurement of scroll profiles	Tohoku University
2-48	Takemi Asai, Yoshikazu Arai, Yuguo Cui, Wei Gao	Nanometric Edge Profile Measurement of Cutting Tools on a Diamond Turning Machine	Tohoku University
2-38	Liu Cheng Jun ,Zou Ji Bin	Error Measuring System of the Rotary Inductosyn	Harbin Institute of Technology
2-46	K. Szwajka, J. Zielińska-Szwajka	Neural networks based in process tool wear prediction system in milling wood operations	University of Rzeszow
2-3	SUI Xiu-wu,LI Yang,ZHANG Guo-xiong, FAN Yu-ming	The valuation of uncertainty on the cylinder shell resonating density meter	Tianjin Polytechnic University Tianjin University
2-22	Ye Shuliang, Li Dongsheng ,Guo Tiantai ,Fu Lin,, Wei XU	Loop-by-loop modeling of whole-closed-loop 2D high-precision motion platform	China Jiliang University

Session 3: Instruments and Systems (2) (Sep.17, 2008)

Invited Paper (2-45)	Wenyuh Jywe, Hsinhung Jwo, Chienhung Liu, Tunghui Hsu, Y. R. Jeng, Borjeng Lin, Yitsung Li , Mengtse Lee and Chini Huang	A 3D Error Measurement System for CNC Machine Tools	National Formosa University National Chung-Cheng University National Formosa University
Invited Paper (2-54)	Yusaku FUJII, Takahiro FUJYU and Haruki OKANO	Impact Response Evaluation of Force Transducer for Use in Falling Weight Deflectometer System	Gunma University Tokyo Sokki Kenkyujo Co., Ltd
2-44	Shen Long, Gong Zhenbang, Liu Liang, Yang Shiliang	Dynamic Modeling and Analysis of Large-scale Antenna Structure	Shanghai University Wenzhou University
2-42	Zhaoxia Zhang, Yang Han, Danhua Liang, Xiaodong Chen, Daoyin Yu	Laser spot vision inspection system based on distortion correction with FPGA	Tianjin University
2-2	Yan Shuhua, Shen Shaowei, Zhou Chunlei, Li E, Gao Lei, Tong Huipeng	Theoretic Research on Effective Viewing Field of Spin Vision Measurement System	National University of Defense Technology
11-5	SHEN Bin, Gong Shen-gong	Measurement of Shaft-rate Modulated Electric Fields of Ship in Shallow Sea	Naval Univ. of Engineering

Session 4: Sensors and Converters (1) (Sep. 17, 2008)

3-24	Lei Wang, Li Hong ming, Xiaotong Du	WSN Multilateral Location Algorithm Based Tikhonov Regularization Method	Shandong University
3-22	Li Dong-ming Sun Bao-yuan Wang Wei Jia Ying	Structure Design and Experimental on Electric-pneumatic Transfer Device with Piezoelectric Structure	Dalian JiaoTong University Dalian University of Technology
3-5	E Li, Shuhua Yan, Chunlei Zhou, Shaowei Shen	Design of a Digital Controller for Closed-loop Fiber-Optic Gyroscope Based on PID Algorithm with Partial Differential	National University of Defense Technology,
3-14	Xu Jun, You Bo, Cui Juan, Jing Ma, Xin Li	Design of nodes for Embedded and Ultra Low-Power wireless sensor networks	Harbin University of Science and Technology Harbin University of Science and Technology
3-8	Zhengzhong Wu, Zilin Liu, Xiaowei Huang, Liu Jun	Real-time Indoor Monitoring System based on Wireless Sensor Networks	Logistical Engineering University

Session 5: Sensors and Converters (2) (Sep. 17, 2008)

Invited Paper (3-12)	Lihui Liu, Yongtai He, Fang Li, Yuliang Liu	Analysis of the optimal package diameter of FBG pressure sensor	Beijing Institute of Technology, China; Institute of Semiconductors, Chinese Academy of Sciences
3-16	SHI Yunxu, FAN Hongmei	Design and Simulation of turbine impeller in hydrovalve	Yantai University Shandong Spaceflight Electronic Graduate School
3-17	LiuChengJun, Zou Ji Bin	Characteristic analysis of contactless transformer	Harbin Institute of Technology
3-15	Jun Xu, Bo You, LiHua Hu, Jing Ma, Xin Li	Quartz tuning fork temperature sensor testing system based on System on Programmable Chip	Harbin University of Science and Technology
11-1	Xu Wang, Xu Jianmao, Xi Gang, Fei Quanrong	Simulation of Radar Antenna Scan and Hardware Design	Navy PCB Test Center of Electronic Equipment
11-12	Jingchang Zhuge, Zhoumo Zeng, Li lu, Yu Zhang and Shili Chen	Research on Identification of Product Oil Based on Inductor Model of Electron Cloud	Tianjin University

Session 6: Signal and Image processing (1) (Sep.17, 2008)

Invited Paper (4-47)	D. Martin, D. G. Chetwynd	High precision angle calibration of robotic total stations and laser trackers	European Synchrotron Radiation Facility School of Engineering, University of Warwick
4-1	Zhang xuechang ,Jia zhixin ,Xu menjuan ,Liu wei, Liu lijun	Study the characteristic of the penalty function in point cloud data's smoothing based on anisotropic heat conduction principle	School of Mechanical Engineering, Ningbo institute of Technology
4-16	Shen Bin, Gong Shen-guang	Extraction of Shaft-rate Modulated Electric Fields of a Ship in Shallow Sea under Strong Background Noise	Dept. of Weaponry Engineering, Naval Univ. of Engineering
4-40	Xia Shouzhi,Guo yan,Zhu Xingwang,Yao Qiqi	Measuring Accuracy of Temperature Dependence on Thermal Emissivity in Flame	Wuhan University of Engineering
4-28	Zeng Yi-Cheng , Li Shu-Hua1 ,Xu Mao-Lin	A new local search method to design finite precision FIR filters	Xiangtan Univ., Institute of Beijing Information Technology
4-25	Yu Tian-he,Dai Jing-min, Kong Wei-mi	Enhancement of infrared image using fractal based on human visual system	Harbin Institute of Technology
4-31	CHEN Feng-dong, LIU Guo-dong, LIU Bing-guo	Detection Displacement Based on Image Point Feature Matching	Harbin Institute of Technology

Session 7: Advanced Optic Measurement Techniques (1) (Sep. 17, 2008)

Invited Paper (8-4)	Xiang Yu, Yukihiro Araki, Kentaro Iwami, Norihiro Umeda	Measurement of nano-particle size by evanescent interference field with conventional optical microscope	Tokyo University of Agriculture and Technology
8-7	Jing Qin Norihiro Umeda	Near-field birefringence response of IPS liquid crystal thin film detected by Bi-SNOM	Tokyo University of Agriculture and Technology
8-28	Gianluigi Bovesecchi, Paolo Coppa	HIGH TEMPERATURE (TILL 1500°C) CONTEMPORARY THERMAL CONDUCTIVITY AND THERMAL DIFFUSIVITY MEASUREMENTS WITH THE STEP FLAT HEAT SOURCE	Univ. of Rome "Tor Vergata"
8-14	Chunsuo Xin, Jingmin DAI, Qiang WANG, Xiaowa HE	Thermal expansion coefficient and electrical resistivity of nonuniform temperature specimen	Harbin Institute of Technology
8-18	Jenq-Shyong Chen Yung-Kuo Huang	Full-field mapping of the stress-induced birefringence using a polarized low coherence interference microscope	National Chung-Cheng University

Session 8: Advanced Optic Measurement Techniques (2) (Sep. 17, 2008)

Invited Paper (8-20)	O.Jusko, M.Neugebauer,H.Reimann,P.Drabarek, M.Fleischer,T.Gnausch	Form measurements by Optical and Tactile Scanning	Physikalisch-Technische Bundesanstalt,
2-18	Mitsuhiro OGAWA Yasuhiro YAMAKOSHI , Kosuke MOTOI, Takehiro YAMAKOSHI , Ken-Ichi YAMAKOSI	Preliminary study on near-infrared spectroscopic measurement of urine hippuric acid for the screening of biological exposure index	yu.sys Corporation, Kanazawa University Chiba University
8-23	Hou Dengke,Junyi Yang , Yunbo Li, Jinshan Liu , Yinglin Song	A time-resolved pump-probe system to study the dynamic excite-state nonlinearities of chloroaluminum phthalocyanine/ethanol solution based on the 4f nonlinear-imaging technique with a phase object	Suzhou University; Harbin Institue of Technology HIT
8-16	Shen Long, Gong Zhenbang, Liu Liang, Yang Shiliang	Precise optical measurement of surface contour of large paraboloid antenna	Shanghai University
2-47	Kentaro Iwami,Takahito Ono and Masayoshi Esashi	Microfabricated scanning near-field probe for sub-terahertz spectroscopy	Tokyo University of Agriculture and Technology; Tohoku University

Session 9: Optoelectronic System Design and Optoelectronic Instruments (1) (Sep.17, 2008)

Invited Paper (9-8)	Konyakhin Igor ,Artemenko Yury, Timofeev Aleksandr	Control of the deformation for the millimeter wave range radiotelescope mirrors	Saint-Petersburg State University of Information St.-Petersburg Lebedev Physical Institute of Russian Academy of Sciences
9-1	Lu Yi, Luo Zai, Yu Gui-Ying, Zhu Wei-Bin	CCD Photoelectric Measurements in Calibrators for Vehicle Headlamp Tester	China Jiliang University,
9-10	He Yong-tai, Li Yan-qi, Liu Li-hui, Wang Lei	A novel solar micro-power system for self-powered wireless sensor nodes	School of Information Science and Technology, Beijing Institute of Technology; Chuxiong Normal University
9-13	Li Yan, Li Lin, Huang Yifan	Conformal Optical Design Using Counterrotating Wedges and Zernike Fringe Sag Surfaces	Beijing Institute of Technology
9-9	Anisimov A.G, Gorbachyov A.A, Krasnyashchikh A.V, Pantushin A.N., Timofeev A.N.	Design and Test of Optoelectronic System of Alignment Control Based on CCD Camera	Saint-Petersburg State University of Information Technologies, Mechanics and Optics,
9-6	Kaliteevskiy Ilya Konyakhin Igor	Computer modeling of the optic-electronic system for deformation measurement of radio-telescope counter-reflector	Saint-Petersburg State University of Information Technologies

Session 10: Optoelectronic System Design and Optoelectronic Instruments (2) (Sep.17, 2008)

9-7	Yaryshev Sergey, Konyakhin Igor , Timofeev Alexander	The universal opto-electronic measuring modules in distributed measuring systems	Saint Petersburg State university of information technologies, mechanics and optics
9-5	Haixia He, Xuanze Wang, Yuning Zhong, Liangen Yang, Hongduan Cao	Design of a probe for two-dimensional small angle detection	HuBei University of Technology
9-14	Guangyu Zhang, Dewei Sun, Funian Long	Optical and Mechanical Structure Design and Modal Analysis about Space Infrared Camera	Harbin Institute of Technology
9-17	Jian Xing, Xu Qi, Xiaogang Sun	Reconstruction for Temperature Field Ar Plasma Jet using CCD Spectrum Tomography Technology	College of Science, Harbin Engineering University Harbin Institute of Technology
8-8	Qiang Wang, Jingmin Dai, Chunsuo Xin	Experimental Study on Measurement Accuracy of Hot Disk Thermal Constants Analyser	Department of Automation Measurement & Control, Harbin Institute of Technology, Heilongjiang, Harbin, 150001, China

Session 11: Nanotechnology and MEMS (1) (Sep.17 2008)

Invited Paper (10-12)	Yang Gan	Techniques for Attaching Nanoparticles to a Probe's Tip for Scanning Near-field Optical (SNOM) Measurements: A Review	Harbin Institute of Technology
Invited Paper (5-3)	P Rolfe,	Metabolic measurements in cell culture and tissue constructs	Oxford BioHorizons Ltd
10-11	Xiaona Wang,Jian Bai,Tiantai Guo, Bo FANG	Simulation of forces on Mie micro-particles in laser trap	China Jiliang University Zhejiang University
10-25	Kuang-Chao Fan,Bai-Kun Li and Chi-Hui Liu	A Diffraction Grating Scale for Long Range and Nanometer Resolution	National Taiwan Univ.
10-13	Futoshi IWATA,Shinsuk KAWANISHI,Akira SASAKI,Hisayuki AOYAMA and Tatsuo USHIKI	Nanometer-scale manipulator and ultrasonic cutter using an atomic force microscope controlled by a haptic device	Shizuoka University University of Electro-Communications Niigata University

Session 12: Nanotechnology and MEMS (2) (Sep.17 2008)

10-30	Ming Zhou,Wenzhong Liu,Li Kong	Estimation of Magnetic Nano-Particles' Size Distribution using their Magnetization Curve	Huazhong University of Science and Technology,
10-24	Liu Shuo,Han Hongjun, Liu Yanping and Wang Baozhen	Atomic Force Microscopy Study on Fouling Characteristics of Modified PES Membrane in Submerged Membrane Bioreactor for Domestic Wastewater Treatment	Harbin Institute of Technology Harbin Normal University Beijing University of Chemical Technology
10-27	Z. Yue, Z.Cai and X. Liu	A Multi-function Tribological Probe Microscope with a hot tip for thermal measurement	University of Warwick, Shanghai Jiao Tong University
10-5	Bo Zhang,Yufeng Zhang,Peng Zhang, and Xiaowei Liu	Experimental investigation of CO2 bubbles behavior in the anode flow field of a micro direct methanol fuel cell	Harbin Institute of Technology
10-7	Ni Xiaochang, Hong Ru, Sun Qi, Wang Ching-yue, Chai Lu, Jia Wei	Basic Research on Micro-nano-instruments by Femtosecond Laser Ablation on Metal Surface	Tianjin University of Technology and Education; Tianjin University

Session 13: Nanotechnology and MEMS (3) (Sep.17 2008)

Invited Paper (2-56)	Andrew Yacoot, Richard Leach, Ben Hughes, Claudiu Giusca, Christopher Jones, Alan Wilson	Dimensional Nanometrology at NPL	National Physics Lab (NPL), UK
Invited Paper (10-29)	Jens Flügge, Ch. Weichert, H. Hu, R. Köning, H.Bosse, A. Wiegmann, M. Schulz, C. Elster, R.D.	Interferometry at the PTB Nanometer Comparator – Design, Status and Development	Physikalisch-Technische Bundesanstalt (PTB)
10-8	Chine-Hsiung Tsai, Chiu-Feng Liu, Chyuan-Yow Tseng, Lung-Ming Fu	Development of High-Discernment Micro-Flow Cytometer	Pingtung University of Science and Technology
2-50	Kentaro Iwami, Takahito Ono and Masayoshi Esashi	Sputter deposited zinc oxide photoconductive antenna for terahertz time-domain spectroscopy	Tokyo University of Agriculture and Technology; Tohoku University Tohoku University
7-10	Ma Jie, Zhu Xiaoli, Zhu Weizhong, Xie Changqing, Ye Tianchun, Shi Peixiong	Fabrication of transmission gratings for extreme ultraviolet interference lithography	Institute of Microelectronics, Chinese Academy of Sciences Shanghai Institute of Applied Physics, Chinese Academy of Sciences DANCHIP, Technical University of Denmark

Session 14: Holography and Diffraction Optics and Instruments (Sep.17,2008)

Invited Paper (7-2)	Yuri Chugui, Yuri Lemeshko, Peter Zav'yalov	Application of diffractive optical elements for inspection of the complicated through holes	Technological Design Institute of Scientific Instrument Engineering (TDI SIE SB RAS) Siberian Branch of the Russian Academy of Sciences Novosibirsk State University
Invited Paper (7-4)	Alexander G. Poleshchuk	COMPUTER-GENERATED HOLOGRAMS FOR ASPHERICAL OPTICS TESTING	Institute of Automatic and Electrometry Russian Academy of Science,
7-1	Yan Shuhua, Li E, Zhou Chunlei, Shen Shaowei, Gao Lei, Tong Huipeng	Designing High Efficiency Uniform-intensity Splitter with Binary-phase Subwavelength Structure	National University of Defense Technology
7-3	Vladislav Nikitin	Thermal effects researching for laser microstructures synthesis by thermochemical circular laser writing	Technological Design Institute of Scientific Instrument Engineering (TDI SIE SB RAS) Siberian Branch of the Russian Academy of Sciences
7-7	Hongyue Gao, Jianhua Liu, Fuxi Gan, Bo Ma	Holographic image recording and multiple image storage in dye-doped nematic liquid crystals	Fudan University
7-8	DU Xiao-Qing, XU Can	Analysis and Design of Diffractive Micro lens for light splitting element	Chongqing University

Session 15: Laser Measurement Techniques and Instruments (1) (Sep.17,2008)

6-5	Yuri Chugui, Yuri Lemeskko	Precision Inspection of Diameters for Circular Reflecting Cylinders	Siberian Branch of the Russian Academy of Sciences Novosibirsk State University
6-4	A. S. M. Noor, M. Torizawa, Y. Kawata	Observation of Single and Two Photon Luminescence on Optically Quenched Wide-gap Semiconductor Crystals	Shizuoka University
6-7	Mudi Xiong, Rongfang Zhao, Aixia Zhou	Study on Array Type Parallel Laser Ranging Technology	College of Information Science and Technology, Dalian Maritime University
6-3	Lingli Long, Liangen Yang, Xuanze Wang, Zhongsheng Zhai	A laser measurement system with multi-degree-of-freedom	School of Mechanical Engineering, HuBei University of Technology HuBei Key Lab of Manufacture Quality Engineering
6-12	Tan yidong, Zhang shulian	A high-resolution compact displacement sensor based on anisotropic feedback of microchip Nd:YAG lasers	Tsinghua University
6-11	Liu Cui, Shulian Zhang, Xiaobin Zong	Orthogonally polarized lasers' semi-classical theory for tuning inner-cavity and external cavity	Tsinghua University

Session 16: Fiber Measurement (Invited Session) (Sep.17,2008)

Invited paper(3-33)	Yun-Jiang Rao	In-Line Fiber-Optic Fabry-Perot Refractive-Index Tip Sensors	University of Electronic Science & Technology of China; Chongqing University
7-14	Bai-Ou Guan, Yang Zhang Hong-Jun Wang, Da Chen, Hwa-Yaw Tam	Distributed Bragg reflector fiber lasers for high temperature sensor applications	Dalian University of Technology, The Hong Kong Polytechnic University
3-32	Y. Song, T. Zhu, Y. J. Rao, Y. W. Zhao	Highly Sensitive Humidity Sensor Based on Ultra-long-Period Fiber Gratings with Asymmetric Refractive Index Modulation	Chongqing University; University of Electronic Science & Technology of China
3-35	Y. J. Rao, D. W. Duan, T. Zhu, Y. N. Fan	SFDM/CWDM of Hollow-Core Photonic Crystal Fiber Based Etalon Strain Sensors with Long Cavity Lengths	University of Electronic Science & Technology of China; Chongqing University
6-17	Mingxing Jiao,Junhong Xing,Yun Liu,Yun Yang	Investigation of Diode-pumped 1064-nm Dual-frequency Nd:YAG Laser with Large Frequency-difference	Xi'an University of Technology
6-23	Z. L. Ran , Y. J. Rao* D.Sun H. Y. Deng	Laser Micromachined All-Fiber In-Line Etalon	University of Electronics Science & Technology of China

Note:This is just an interim schedule for information only