

APCOT-2010 Program, 6th -9th July

Time	
	Tuesday, 6th July 2010
5:00 - 7:00	Registration Open
5:30	Conference Drinks
7:00	Registration Closes for the evening

(Release 3.4)

This program is subject to change

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APCOT-2010 Program, Day 1, Wednesday, 7th July 2010

Time	Session 1	Session 2	Session 3	Session 4
	Day 1 Wednesday, 7th July 2010 (opening day)			
7:30 -	Open for Registration			
9:00 - 9:10	Opening of the Conference			
9:10 - 10:00	Plenary: Janusz Bryzek - "Changing the World with MEMS"			
10:00-10:30	Coffee Break			
10:30 - 11:00	W1A: Invited Talk: Paddy French - "Biomimetics: learning from nature to make better transducers"	W1B: Invited Talk: Kazusuke Maenaka - "Human Sensing Fusion - For Health and Safety Life-"	W1C: Invited Talk: Limin Tong - "Waveguiding nanowire optical sensors "	W1D: Invited Talk: Takahito Ono - "Integration of nanomaterials into microsystem"
11:00 - 12:15	Bio Microsystems and Fluidic Systems I	Fabrication Technologies I	Materials and Device Characterization I	Mechanical and Physical Sensors I
11:00	BMF1: Ye Y. Gu, N. Miki, 'A Novel 3D Micro Emulsion Droplet Generating Device Using Coaxial Glass Tubes', (Keio University)	FT1: Aida A. Ebrahimi, H. Miladi, S. Mohajerzadeh, A. Moafi, 'A Two Level Etch Process For The Fabrication Of Low Frequency Out Of Plane Accelerometer ', (University Of Tehran, ECE Department)	MDC1: Denis F. Dupont, D. Mercier, B. Reig, S. Hentz, L. Duraffourg, E. Colinet, S. Masson, J. Guerard, O. Le-Traon, 'Characterization Of A Micro-Electromechanical Tuning Fork Dedicated To Vibration Sensor Applications', (Cea-Leti-Minatec)	MPS1: RongShun J. Hsu, R. Chen, T. Hou, 'A High-Resolution Microfabricated Vernier-Type Displacement Sensor Using Suspended Gate Fets', (Institute of NanoEngineering and MicoSystems, National Tsing Hua University, Tai)
11:15	BMF2: Chun-Hung C. Lan, C. Yang, S. Lin, C. Lin, 'Microfluidic T-Junction With An Undercut Orifice To Generate Ultra-Small Droplets', (Department Of Mechanical And Electro-Mechanical Engineering, National Sun Yat-Se)	FT2: Yonggang Y. Jiang, T. Fujita, T. Hashimoto, M. Uehara, Y. Iga, K. Kanda, K. Higuchi, K. Maenaka, 'Micro-Structuring Of Thick NdFeb Film Using High-Power Plasma Etching For Magnetic MEMS Application', (Japan Science And Technology Agency)	MDC2: Liang-Chia L. Chen, H. Huang, 'Improved Stroboscopic Interferometry Using Signal Deconvolution For Micro 3-D Dynamic Characterization', (National Taipei University Of Technology)	MPS2: Chunrong C. Peng, P. Yang, H. Zhang, S. Liu, S. Xia, 'Design And Fabrication Of A Novel Closed-Loop SOI Mems Resonant Electrostatic Field Sensor', (Institute Of Electronics, Chinese Academy Of Sciences)
11:30	BMF3: Kazunori K. Shimizu, T. Yamasaki, A. Shunori, H. Takahashi, S. Kawakami, M. Hashida, S. Konishi, 'PDMS Pneumatic Balloons For Drug Delivery To Target Tissues', (Kyoto University)	FT3: Meifang M. Lai, G. Parish, J. Dell, Y. Liu, A. Keating, 'Reactive Ion Etching (RIE) Of Porous Silicon Patterned Directly Using Photolithographic Processes', (University Of Western Australia)	MDC3: Shinya S. Yoshida, S. Fujinami, M. Esashi, 'Investigation Of Frictional And Elastic Properties Of A Conductive Polymer Brush By Atomic Force Microscopy For MEMS Probe-Based Data Storage System', (WPI-Advanced Institute for Materials Research, Tohoku University)	MPS3: Yiming Y. Zhang, Q. Shu, G. Zhao, Y. Tian, W. Li, Y. Hao, J. Chen, 'High-Aspect-Ratio Comb-Drive Bulk Titanium Resonator', (Peking University)
11:45	BMF4: Song Bin S. Huang, M. Wu, G. Lee, 'Spotting-Based Alginate Microbead Generator Using An Integrated Pneumatic Micro-vibrator For Encapsulation Of Cells', (National Cheng Kung University)	FT4: Tianle T. Gao, G. Sun, X. Li, H. Zhang, 'Fabrication Of Superhydrophobic Wide-Band Black Silicon By Deep Reactive Ion Etching', (Institute Of Microelectronics, Peking University)	MDC4: Taku T. Wakita, Y. Hirai, K. Sugano, T. Tsuchiya, O. Tabata, T. Ikehara, 'Crystal Anisotropy On Strength Of Single Crystal Silicon Measured By Tensile Testing', (Kyoto University)	MPS4: Yusuke Y. Yoshida, T. Ono, 'Nonlinear Micromechanical Bistable Resonator Capable Of Vibration Switching By Thermomechanical Noise At Room Temperature', (Tohoku Univ.)
12:00	BMF5: Yu-Cheng H. Lin, H. Chang, Y. Lin, 'Study Of Stretching And Immobilizing Dna Using Microfluidic Chip And Electro-Osmotic Flow', (Department Of Engineering Science, National Cheng Kung University)	FT5: Li L. Wen, Q. Zhang, W. Xiang, H. Wang, L. He, J. Chu, 'A Novel Microcantilever Probe With Inverted Pyramidal Microplasma Reactor For Maskless Scanning Plasma Etching', (School Of Engineering Science, University Of Science And Technology Of China)	MDC5: Sheng-Yi S. Chang, T. Yang, 'Prediction Of The Nonlinear Constitutive Law Of Engineering Material Using An Abductive Network And Finite Element Method By Nanoindentation Test', (National Formosa University)	MPS5: Ziqiang Z. Dong, Q. Huang, J. Ji, M. Qin, 'A Temperature Balance Thermal Flow Sensor System', (Southeast University)
12:15 - 1:45	Lunch			

APCOT-2010 Program, Day 1, Wednesday, 7th July 2010continued

Time	Session 1	Session 2	Session 3	Session 3
1:45 - 2:15	W2A: Invited Talk: Sunghoon Kwon - "Artificial Structural Color and Guided Self-Assembly for Scalable Biochips"	W2B: Invited Talk: Arnan Mitchell - "Low cost nano-imprinted, laminated and opto-fluidic structures for sensing applications"	W2C: Invited Talk: David Powell - "Angular Spectrum of Fishnet Optical Metamaterials "	W2D: Invited Talk: JianJang Huang - "Application of nanosphere lithography to solar cells and photodetectors"
1:45 - 3:15	Bio Microsystems and Fluidic Systems II	Fabrication Technologies II	Materials and Device Characterization II	RF MEMS/NEMS I
2:15	BMF6: Chun-Hong C. Lee, M. Wu, C. Yeh, S. Lin, C. Lin, 'Separation And Incubation Of Circulating Tumor Cells In Human Whole Blood Utilizing A 3-D Microfluidic Chip' , (Department Of Mechanical And Electro-Mechanical Engineering, National Sun Yat-Se)	FT6: James J. Kim, H. Nam, J. Pak, 'Fabrication Of PDMS Nanochannels By The Wrinkle Method' , (Korea University)	MDC6: James X. You, J. Chang, J. Pak, 'Electrochemical Route To Graphene Oxide' , (Korea University)	RF1: Daisuke D. Yamane, W. Sun, S. Kawasaki, H. Fujita, H. Toshiyoshi, 'A Ku-Band RF-Mems Phase Shifter With Soi Double-Side Bulk-Micromachining Design' , (The University Of Tokyo)
2:30	BMF7: Nick N. Harris, M. Hill, A. Keating, 'A Lateral Mode Flow-Through PMMA Ultrasonic Separator' , (University Of Southampton)	FT7: Satoshi S. Amaya, D. Dao, S. Sugiyama, 'A Robust Fabrication Method Of Polymer Mems Devices Based On Hot Embossing And Conventional Machining' , (Ritsumeikan University)	MDC7: Nay N. Lin, J. Miao, P. Dixit, 'Texture Development In Pulse-Reverse Electro-Deposited Copper Through-Silicon Via (TSV) And Films' , (Nanyang Technological University)	RF2: Hackho H. Kim, Y. Kawai, J. Lee, S. Tanaka, M. Esashi, 'Fabrication Of PZT Film Bulk Acoustic Resonators On Patterned And Unpatterned Bottom Electrodes' , (Tohoku University)
2:45	BMF8: Mehmet Cagatay M. Tarhan, R. Yokokawa, L. Jalabert, D. Collard, H. Fujita, 'Isolating Microtubules Between Parallel Walls For Single Molecular Capturing Process' , (University Of Tokyo)	FT8: Yoshimichi Y. Ami, H. Tachikawa, N. Takano, N. Miki, Y. Kawamoto, 'Design And Fabrication Of Polymer Micro Needle Arrays' , (School Of Integrated Design Engineering At Keio University)	MDC8: Bérengère B. Lebental, P. Chainais, P. Chenevier, E. Delevoye, J. Fabbri, S. Nicoletti, A. Ghis, 'Ultra-Thin Membranes Of Well-Aligned Single-Walled Carbon Nanotubes' , (CEA-LETI, Minattec)	
3:00	BMF9: Yingwei Y. Liu, S. Matsuno, H. Komatsuzaki, S. Imai, Y. Nishioka, 'A Planar Diffuser Micropump With Polyimide Diaphragm' , (Department Of Precision Machinery Engineering, Collage Of Science And Technology)	FT9: Jongho J. Park, H. Fujita, B. Kim, 'Fabrication Of High Aspect Ratio Metallic Structure On The Curved Substrate Using Flexible Mask And Copper Electroplating' , (Institute of Industrial Science, The University of Tokyo)	MDC9: Jianguo J. Zhu, L. Liu, L. Li, R. Xie, W. Zhang, D. Xiao, 'Synthesis And Characterization Of Fe-Doped ZnS Nanocrystals' , (Sichuan University)	RF4: Lynn L. Khine, T. Julius M. , M. Tang, 'A GHz Floating SAW Resonator' , (Institute of Microelectronics, Singapore)
3:15 - 3:45	Coffee Break			

APCOT-2010 Program, Day 1, Wednesday, 7th July 2010continued

Time	Session 1	Session 2	Session 3	Session 3
3:45 - 5:00	Bio Microsystems and Fluidic Systems III	Fabrication Technologies III	Materials and Device Characterization III	Mechanical and Physical Sensors II
3:45	BMF10: Hiroki H. Ota, R. Yamamoto, Y. Tanaka, Y. Sato, N. Miki, 'Development Of Floating Three Dimensional Spheroid Formation Array Using Micro-Rotation Flow', (Keio University)	FT10: Masafumi M. Kumano, S. Tanaka, M. Esashi, 'SU-8 Photoresist Removal By Atomic Hydrogen Treatment', (Department Of Nanomechanics, Tohoku University)	MDC10: Celine A. Bienaime, M. Moussus, J. Rauch, G. Lucchi, T. Leblois, C. Elie-Caille, 'Multi-Scale Characterization Of Bio-Functionalised GaAs Crystal Plates: Towards A Performant Biosensor', (Femto-St Institute)	MPS6: Haekwan H. Oh, H. Lee, K. Choi, S. Yang, K. Lee, 'Improving The Sensitivity Of SAW Gyroscope Using The Progressive Wave', (Ajou University)
4:00	BMF11: Takeshi T. Saito, T. Noda, K. Takahashi, A. Kono, M. Ishida, K. Sawada, 'Lamination Mixer In Microfluidics For Different Volume Ratio', (Toyohashi University Of Technology)	FT11: Anurat A. Wisitsoraat, S. Mongpraneet, D. Phokharatkul, N. Chomnawang, A. Tuantranont, 'Low Cost And High Resolution X-Ray Lithographic Mask Based On Lift-Off Sputtered Lead Film', (National Electronic And Computer Technology Center)	MDC11: Adam A. Koszewski, F. Souchon, C. Dieppedale, T. Ouisse, 'Characterization Of Trapping In PECVD SiN _x And SiO ₂ Dielectrics For Electrostatic RF MEMS Switches', (Cea-Leti Minatoc)	MPS7: Jui-che C. Shen, K. Chen, C. Chou, J. Tsai, 'MEMS Double-Decoupled Gyroscope With An Enhanced Operation Bandwidth', (National Taiwan University)
4:15	BMF12: Jyh Jian J. Chen, C. Chen, S. Shie, 'Characterization Of A Staggered Curved-Channel Micromixer', (National Pingtung University Of Science And Technology)	FT12: Eiichi E. Tomono, H. Miyashita, T. Ono, M. Esashi, 'Optically-Controlled Multi Electron Source', (Tohoku University)	MDC12: Chee Chin C. Tan, V. Ong, 'Charge Collection Probability Within A U-Shaped Junction Well', (Nanyang Technological University)	MPS8: K K. Rajanna, N. Gokhale, 'Study On The Suitability Of Piezoelectric Thin Film Based Impact Sensor For Material Discrimination', (Indian Institute Of Science)
4:30	BMF13: Hayato H. Izumi, Y. Takaoki, C. Huang, M. Suzuki, T. Kanzaki, S. Aoyagi, 'Three-Dimensionally Sharpened Silicon Microneedle With A Trench For Collecting Blood', (Kansai University)	FT13: Prem P. Pal, K. Sato, M. Gosalvez, B. Tang, H. Hida, 'Advanced MEMS Applications Using Orientation Dependent Adsorption Of Surfactant Molecules In TMAH Solution', (Nagoya University)	MDC13: Ylias Y. Sabri, S. Ippolito, J. Tardio, A. Hussein, A. O'Mullane, S. Bhargava, 'Studies On The Interaction Of Mercury With Gold Thin Films Using Quartz Crystal Microbalances', (RMIT University)	MPS9: Hirofumi H. Shintaku, T. Inaoka, Y. Nakamoto, M. Hayashi, Y. Kagaya, T. Nakagawa, J. Ito, S. Kawano, 'Measurement Of Electrically Evoked Auditory Brainstem Response Using Bionic Auditory Membrane With Frequency Selectivity', (Osaka University)
4:45	BMF14: A. Q. S. Xiong, Y. Yang, A. Liu, 'An Optofluidic Coupler For Refractive Index Measurement', (Nanyang Technological University)	FT14: Qiancheng Q. Zhao, Z. Yang, Z. Guo, H. Ding, G. Yan, 'Wafer Level Vacuum Packaging Process With Lateral Interconnections And Vertical Feedthroughs', (Peking University)	MDC14: Hsueh-An H. Yang, N. Chen, Y. Lin, T. Gessner, D. Louzguine-Luzgin, A. Inoue, M. Esashi, 'A Study Of Micro Moulding Using Bulk Metallic Glass Material', (WPI Advanced Institute For Materials Research, Tohoku University, Japan)	MPS10: Dzung D. Dao Viet, N. Izadi, V. Anh Ho, S. Sugiyama, S. Hirai, 'A Three Sensing Points Tactile Finger Tip', (Ritsumeikan University)
5:00 - 6:30	Poster Session (Wednesday)			
6:30	End of Conference Proceedings Day 1			

APCOT-2010 Program, Day 2, Thursday, 8th July 2010

Time	Session 1	Session 2	Session 3	Session 4
	Day 2 Thursday, 8th July 2010			
9:00 - 9:10	Information for the day			
9:10 - 10:00	Plenary: Nico De Rooji - "MEMS for Biological Systems"			
10:00 - 10:30	Coffee Break			
10:30 - 11:00		T1A: Invited Talk: Nick Harris - "Thick-film Piezoelectric Vibration Harvesting – A HUMS Application "	T1B: Invited Talk: Joey Talghader - "Material Signatures and Tunable High Sensitivity Detection in the Infrared"	T1C: Invited Talk: Hoe Tan - "Properties of III-V Nanowires Grown by MOCVD "
11:00 - 12:15	Bio Microsystems and Fluidic Systems IV	Theory, Design, Analysis of MEMS and NEMS I	Optical MEMS and Nano-optics I	Nano Devices and Nanotechnology I
11:00	BMF15: Huei-Wen H. Wu, R. Hsu, C. Lin, X. Lin, S. Hwang, G. Lee, 'An Integrated Microfluidic System For Isolation And Counting Of Hematopoietic Stem Cells', (National Cheng Kung University)	TDAM1: Rongshun R. Kao, Y. Chen, C. Chuang, R. Chen, 'Design, Analysis, And Fabrication Of A Novel Mems Electromagnetic Power Generator', (Institute of NanoEngineering and MicoSystems, National Tsing Hua University, Tai)	OMN1: Anand A. Gawarikar, R. Shea, J. Talghader, 'Uncooled Band-Limited Microbolometers using SiO ₂ Absorption', (University Of Minnesota)	NDN1: Cengiz C. Kaya, F. Kaya, C. Ustundag, A. Zaman, 'Carbon Nanotube Containing Alumina Ceramics For Nano-Filtration And Anti-Microbial Applications', (Yildiz Technical University)
11:15	BMF16: Yu-Cheng Y. Lin, C. Yeh, T. Tu, 'Based On The Moving Electric Field For Cell Migration In Micro-Array Electrode Chip', (Department Of Engineering Science, National Cheng Kung University)	TDAM2: Bouhadjar B. Ahmed Seddik, G. Despesse, E. Defay, 'Tunable Stiffness Based On Piezoelectric Material For Optimum Energy Harvesting In Low Frequencies', (Commissariat A L'Energie Atomique)	OMN2: Xiaomei X. Yu, Y. Zheng, G. Chen, Y. Zhao, X. Liu, L. Liu, 'Development Of Silicon Frame Infrared FPA Using Bimaterial Microcantilever Arrays', (Peking University)	NDN2: Hai-Yan H. Xie, P. Chen, R. Zhen, Y. Feng, B. Wang, 'Facile And Efficient Separation Of Histidine-Tagged Proteins With Ni ₂ +Nitrilotriacetic Acid-Modified Fe ₃ O ₄ /Au Core/Shell Nanoparticles', (Beijing Institute Of Technology)
11:30	BMF17: Daisuke D. Hiramaru, H. Senzai, A. Okonogi, K. Terao, T. Miura, T. Suzuki, I. Kanno, H. Kotera, 'Development Of Hybrid Bio-Device With Self-Organized Huvec Vessels And Artificial Micro-Channels', (Kyoto University)	TDAM3: Hiroyuki H. Tokusaki, Y. Hirai, K. Sugano, T. Tsuchiya, O. Tabata, 'Component Modeling Of 2DOF Comb Transducer For Equivalent Circuit Using Built-In Displacement Detection', (Kyoto University)	OMN3: Huaiwen H. Wu, A. Emadi, G. De Graaf, R. Wolffenbuttel, 'Silicon Carbide Based Infrared Absorber For Thermoelectric Detector Array', (Delft University Of Technology)	NDN3: Jie J. Deng, S. O' Shea, R. Lim, 'Nanostructured Templates With Anchored Polymers For Studying Transport Across Nanopores', (Institute Of Materials Research And Engineering)
11:45	BMF18: Anna A. Podolska, M. Kocan, M. Kocan, R. Seeber, U. Mishra, K. Pleger, G. Parish, B. Nener, 'Growth Of Human Embryonic Kidney Cells On AlGaIn/GaN Heterostructures For Biosensor Applications', (The University Of Western Australia)	TDAM4: Rongshun Y. Chen, I. Chang, R. Chen, M. Hou, 'Side Instability Of Comb-Fingers: Theory And Experiment Verifi-Cations', (Institute of NanoEngineering and MicoSystems, National Tsing Hua University, Tai)	OMN4: Fu-Li F. Hsiao, C. Lee, 'Computational Study Of Feasibility Of Biochemical Sensing Based On Photonic Crystals Nano-Ring Resonator', (Institute Of Photonics, National Changhau University Of Education)	NDN4: Muhammad M. Rafiq, K. Masubuchi, Z. Durrani, H. Mizuta, A. Colli, W. Milne, S. Oda, 'Single-Electron Transport In Silicon Nanochains', (Pakistan Institute Of Engineering And Applied Sciences)
12:00	BMF19: Yonggang Y. Zhu, N. Wu, J. Oakeshott, C. Easton, 'Microfluidic Double Emulsions For In Vitro Protein Expression', (CSIRO Australia)	TDAM5: Kei K. Masunishi, K. Sano, R. Ohara, T. Hiruma, Y. Tomizawa, 'Acoustic Equivalent Circuit Analysis For AlN(Aluminum Nitride) Piezoelectric Mems Microphone', (Toshiba Corporation)	OMN5: Akio A. Higo, K. Takahashi, M. Nakada, H. Fujita, H. Toshiyoshi, Y. Nakano, 'Parylene Covered Selective Area HF Vapor Release For Silicon Photonic Wire Waveguides', (RCAST, The University of Tokyo)	NDN5: Dai-Wen D. Pang, J. Hu, M. Xie, Z. Zhang, H. Xie, C. Wen, A. Liu, 'Multicolor Fluorescent-Magnetic-Dualencoded Multifunctional Nanobiodevices', (Wuhan University)
12:15 - 1:45	Lunch			

APCOT-2010 Program, Day 2, Thursday, 8th July 2010continued

Time	Sesssion 1	Sesssion 2	Sesssion 3	Sesssion 3
1:45 - 2:15	T2A: Invited Talk: Tan Ooi Kiang - "Functionalized nano-structured sensors"	T2B: Invited Talk: Andrew Yeh - "Smart optical devices adapted by dielectric liquid lenses: image and illumination system "		T2C: Invited Talk: Lu Wei - "The Nano Device: Quantum Dots Induced Quantum Amplification for Photon Detection "
2:15 - 3:15	Chemical Sensors and Microsystems I	Actuators I	Fabrication Technologies IV & Materials and Device Characterization IV	Nano Devices and Nanotechnology II
2:15	CSM1: Elizaveta E. Vereshchagina, H. Gardeniers, 'Selective Detection And Kinetic Analysis Of Propane, Propyne And Propene Using A CMOS Microcalorimetric Sensor', (MESA+ Institute Of Nanotechnology, University Of Twente)	AO1: Paul C.-P. P. Chao, T. Tu, C. Chiu, 'Optical Design And Fabrication Of The Tunable-Axis Liquid Crystal Lens', (Department Of Electrical Engineering, National Chiao Tung University)	FT15: Seiji M. Tomura, Y. Yoshida, T. Ono, C. Huang, S. Samukawa, 'Degradation Of Mechanical Characteristics Of Silicon Microcantilever Due To Plasma Induced Defects', (Institute Of Fluid Science, Tohoku University)	NDN6: Barbara B. Łysoń, M. Radecka, K. Zakrzewska, M. Rekas, M. Lubecka, A. Czaplá, T. Graule, 'Nanopowders Of Chromium Doped TiO2 For Gas Sensors', (AGH University Of Science And Technology, Cracow Poland)
2:30	CSM2: James J. Park, Y. Pak, J. Pak, 'Glucose Sensor Based On The Immobilization Of Glucose Oxidase On Patterned Zinc Oxide Nanorods ', (Korea University)	AO2: Kenichi K. Morimoto, K. Nasu, S. Konishi, 'Numerical Simulation Of Bending Motions Of Pneumatic Balloon Actuators ', (Ritsumeikan University)	FT16: JaeWung J. Lee, Y. Kawai, S. Tanaka, M. Esashi, 'Fabrication Of Piezoelectric MEMS Using Free-Standing PZT Film On Ge Sacrificial Layer', (Advanced Institute For Materials Research Tohoku University)	NDN7: Vincent C. B. Li, H. Fu-Li, N. Wang, V. Lee, 'Microcantilever Photonic Crystal Sensor With Dual Nano-Ring Resonator', (National University of Singapore)
2:45	CSM3: Andy A. Cranny, N. Harris, A. Lewis, M. Nie, J. Wharton, R. Wood, K. Stokes, 'Lifetime Performance Characteristics Of Screen-Printed Potentiometric Ag/AgCl Chloride Sensors', (University Of Southampton)	AO3: Q. X. Q. Zhang, Y. Du, C. Tan, J. Zhang, M. Yu, G. Lo, D. Kwong, 'Integrated MEMS Actuators Used For Fine-Positioning And Locking Of Optical Ball-Lens In Silicon Photonics Packaging', (Institute of Microelectronics, Singapore)	FT17: Yan Y. Cui, L. Zhang, L. Zhao, J. Xia, J. Zhao, L. Wang, 'Study On Fabrication And Characterization Of Piezoelectric Micro-Cantilever Probe', (Dalian University Of Technology)	NDN8: Chien-Hung C. Lin, C. Wang, H. Su, 'The New Concepts Of Mold Fabrication Technology For Nanoimprint Lithography', (Chinese Culture University)
3:00	CSM4: Abdelhamid A. Boudiba, C. Zhang, M. Debligny, 'Effect Of High Temperature Annealing On The Microstructure Of Screen-Printed WO3 Layers Used For Gas Sensing', (FACULTE POLYTECHNIQUE DE MONS, Université de Mons Hainaut)	AO4: Yung-Yuan Y. Kao, C. Chiu, P. Chao, 'A DFLLC Lens With Ring-And-Pie Electrodes And A New Driving Scheme To Minimize Response Time', (Department of Electrical Engineering, National Chiao Tung University)	MDC15: Johnny Han H. Johnny, A. Win, Y. Soh, M. Tsai, B. Soon, J. Ng, H. Feng, 'Simple Resonating Micro-Mechanical Structure For Characterization Of AlN Piezoelectric Strain Constant', (Institute of Microelectronics, Singapore)	NDN9: Asghar A. Asgari Tokaldani, S. Razi, 'Theoretical Modelling Of High Temperature Gan Quantum Dot Infrared Photodetectors With AlGaN Capping Layer', (University Of Tabriz)
3:15 - 3:45	Coffee Break			

APCOT-2010 Program, Day 2, Thursday, 8th July 2010continued

Time	Session 1	Session 2	Session 3	Session 3
3:45 - 5:00	Bio Microsystems and Fluidic Systems V & Chemical Sensors and Microsystems II	Theory, Design, Analysis of MEMS and NEMS II	Optical MEMS and Nano-optics II	Packaging and Assembly Technology I & RF MEMS/NEMS II
3:45	BMF20: Chao-June C. Huang, J. Lin, M. Syu, G. Lee, 'Multi-Functional Electrochemical Detection System Using Microfluidic Technology' , (National Cheng Kung University)	TDAM6: Meng M. Nie, Q. Huang, H. Yu, M. Qin, W. Li, 'A CMOS Compatible Capacitive Barometric Pressure Sensor' , (Key Laboratory Of MEMS Of Ministry Of Education, Southeast University)	OMN6: Ling-Han L. Li, A. Higo, M. Sugiyama, Y. Nakano, 'Current Injecting Light Emission Of Silicon/InGaAsP-MQW Hetero-Integration And Low Loss 3D Spot-Size Converter For Silicon Hybrid Laser' , (Research Center For Advanced Science And Technology, The University of Tokyo)	PAT1: Chee Wee C. Tan, J. Miao, G. Barbastathis, M. Triantafyllou, 'A Diaphragm-Based Pressure Sensor Packaged Using Liquid Crystal Polymer And Silicone Oil For Underwater Applications' , (Center for Environmental Sensing and Modeling (CENSAM) IRG, Singapore-MIT Allian)
4:00	BMF21: Qiannan Q. Xue, B. Chao, H. Zhang, S. Xia, 'Nano-Multilayers-Spheres Based Micro Immunosensor For Hemoglobin A1C Level' , (State Key Laboratory Of Transducer Technology, Institute Of Electronics, Chinese)	TDAM7: Therese T. Leblois, L. Liu, C. Elie-Caille, 'Design Of New Lateral Field Excitation GaAs Resonant Biosensors' , (FEMTO-ST Institute)	OMN7: Taichi T. Hashimoto, J. Maeya, T. Fujita, K. Maenaka, 'Observation Of Winking In Solid-State Ring Laser Gyroscope' , (Univresity Of Hyogo)	PAT2: Weileun Y. Huang, B. Jang, W. Fang, 'Magnetic Lifting And Welding To Simultaneously Assembly And Package A Quality-Factor-Controllable Micromachined Inductor' , (Power Mechanical Eng. Dept. / NEMS Inst., National Tsing Hua University, Hsinchu)
4:15	CSM5: Mohammad M. Olfatnia, T. Xu, J. Miao, L. Ong, 'Frequency Response Of Piezoelectric Microdiaphragm Based Biosensor Under Immobilization Of Goat Immunoglobulin G' , (Nanyang Technological University)	TDAM8: Xuming X. Zhang, A. Jian, W. Zhu, A. Liu, 'Microfluidic Double Optical Barrier Structure For Liquid Refractive Index Sensors With Ultra-High Sensitivity' , (Hong Kong Polytechnic University)	OMN8: H H. Cai, Q. Zhang, A. Yu, G. Lo, D. Kwong, A. Liu, 'Characteristics Of Micromachined Injection Locked Lasers' , (Institute of Microelectronics, Singapore)	PAT3: Kazuya K. Tsujimoto, Y. Hirai, K. Sugano, T. Tsuchiya, O. Tabata, 'Sacrificial Microchannel Sealing By Glass-Frit Reflow For Micromachined Alkali Gas-Filled Cell' , (Department Of Micro Engineering, Kyoto University)
4:30	CSM6: Chi-Chang C. Wu, F. Ko, B. Lee, T. Su, F. Liu, Y. Yang, T. Pan, C. Chuang, S. Pang, 'Novel Silicon Nanobelt Field Effect Transistor For Liver Cancer Detection' , (National University Of Kaohsiung)	TDAM9: Lei L. Wang, Q. Huang, J. Tang, J. Song, J. Luo, 'Effects Of Radiation On The Resonant Frequency And Resistance Of Polysilicon Beams In MEMS' , (Southeast University)	OMN9: Wen-Pin Y. Huang, T. Hsu, C. Lu, C. Lin, W. Shih, W. Chen, P. Chang, 'Concentric Polymer-Dispersed Liquid Crystal Rings For Light Intensity Modulation' , (National Taiwan University)	RF5: Chang-Wook I. Hyeon, T. Jung, S. Lim, C. Baek, 'Fully-Packaged Linear/Circular Polarization Reconfigurable Antenna Using Integrated Silicon RF MEMS Switch' , (Chung-Ang University)
4:45		TDAM10: C C. Cho, H. Lee, K. Choi, 'Finite Element Modeling Of Magnetostrictive Thin Film Actuator Considering The Nonlinear Magnetic Field For MEMS' , (Inha University)	OMN10: Huaiwen C. Liu, A. Emadi, H. Wu, S. Grabarnik, G. De Graaf, R. Wolfenbittel, 'A Double-Mode Linear Imaging System Of An IC-Compatible LVOF Microspectrometer For The Visible Light' , (Delft University Of Technology)	RF6: Etsuji E. Ogawa, T. Ikehashi, T. Saito, H. Yamazaki, K. Masunishi, Y. Tomizawa, T. Ohguro, Y. Sugizaki, Y. Toyoshima, H. Shibata, 'A Creep-Immune Electrostatic Actuator For RF-Mems Tunable Capacitor' , (Toshiba Corporation)
5:00 - 6:30	Poster Session (Thursday)			
6:30	End of formal Conference Proceedings Day 2			
7:30-11:00	Conference Dinner - Burswood Entertainment Complex (Coach Transfers provided from UWA after the poster session)			

APCOT-2010 Program, Day 3, Friday, 9th July 2010

Time	Session 1	Session 2	Session 3	Session 4
	Day 3 Friday, 9th July 2010			
9:00 - 9:10	Information for the day			
9:10 - 10:00	Plenary: Tanya Monro - "Micro and nano-structured optical fibres for next generation chemical & biological sensors"			
10:00 - 10:30	Coffee Break			
10:30 - 11:00	F1A: Invited Talk: Kiyoshi Toko - "Taste Sensor and Electronic Nose "		F1B: Invited Talk: Bai Ping - "Plasmonic Devices for On-chip Nanoscale Optical Data Transmission "	F1C: Invited Talk: Pietro Siciliano - "Nano-on-Micro approaches from electronic devices to biomimetic olfaction "
11:00 - 12:15	Chemical Sensors and Microsystems III	Actuators II	Optical MEMS and Nano-optics III	Sensing Systems, Algorithms and Sensor Networks I
11:00	CSM7: Hiroataka H. Hida, J. Nishida, K. Hamaguchi, M. Shikida, K. Sato, 'Micromachined Viscometer Using Gas-Liquid Separated Resonator' , (Nagoya University)	AO5: Huaming H. Wang, Y. Luan, J. Zhu, 'Hopping Mechanism Driven By Dielectric Elastomer Actuator' , (Nanjing University Of Aero. And Astro.)	OMN11: Yi Wei Y. Xu, A. Michael, C. Kwok, G. Peng, 'A Novel Stacked-Die Optical-Interconnect Prototype System: Fabrication Technique For Front And Rear 45° Micromirror Pair' , (The University Of New South Wales)	SSASN1: Zhao Z. Junjuan, Z. Zhan, F. Zhen, D. Lidong, 'A New Approach To Detect Water Vapor Using Laser Photoacoustic Spectroscopy Near 10.6 μm' , (Institute Of Electronics Chinese Academy Of Sciences)
11:15	CSM8: Alan A. Wilson, R. Muscat, 'Thin Wire Paint/Sealant Degradation Sensor' , (DSTO)	AO6: Xavier X. Arouette, Y. Matsumoto, T. Ninomiya, Y. Okayama, N. Miki, 'Dynamic Response Of Hydraulic Displacement Amplification Mechanism Applicable To Braille Code Display' , (Keio University)	OMN12: Yingshun X. Yingshun, J. Singh, . Premachandran, K. Chen, M. Wang, J. Lin, 'Development Of Two-Axis Micromirror Based Optical Probe For 3D Endoscopic Optical Coherence Tomography' , (Institute of Microelectronics, Singapore)	SSASN2: Yuheon Y. Yi, S. Maruyama, H. Fujita, H. Toshiyoshi, 'An All-Digital CMOS-MEMS Resonator With PLL Based On Digital Displacement Detection' , (Research Center For Advanced Science And Technology)
11:30	CSM9: Ylias Y. Sabri, S. Ippolito, J. Tardio, A. O'Mullane, V. Bansal, S. Bhargava, 'Au Nanoprisms Based QCMS As Sensitive And Selective Hg Vapor Sensors' , (RMIT University)	AO7: Yasuhiro Y. Nishioka, S. Kaihatsu, H. Katsumata, T. Fujiya, D. Hoshino, Y. Chida, T. Morita, Z. Duan, 'Silicon Linear Actuator Driven By Electrochemomechanical Stain Of Polypyrrole Film' , (College Of Science And Technology, Nihon University)	OMN13: Meng-Ju M. Lin, K. Wu, 'Analysis And Fabrication Of Electrostatic Actuated Micro Deformable Focusing Mirror' , (Department Of Mechanical And Computer Aided Engineering, Feng Chia University)	SSASN3: Franc F. Van Der Bent, 'An Approach To Utilize A Grid Of EMF Potentiometric Co2 Sensors In A Ultra Low Power Wireless Sensor Network' , (University Of Applied Science Utrecht)
11:45	CSM10: Sam Hwan S. Kim, S. Jeon, D. Jung, J. Choi, S. Kong, 'Novel Sensing Method Of Free Chlorine Concentration For Real-Time Analysis Of Water Quality' , (School Of Electrical Engineering And Computer Science, Kyungpook National Univer)	AO8: Aron A. Michael, L. Lou, C. Kwok, 'A Novel Piezoelectric Actuation Mechanism' , (UNSW)	OMN14: ShaoJun S. Ma, K. Takeda, L. Li, M. Kubota, A. Higo, Y. Mita, J. Pourciel, M. Sugiyama, Y. Nakano, 'Micro Opto-Mechanical Silicon Probe For Non-Destructive Surface Profiling Inside Of Micro Holes' , (Department Of Electrical Engineering And Information Systems, Graduate School Of)	SSASN4: Stephen S. Van Der Velden, I. Powlesland, J. Singh, 'Dynamically Reconfigurable Multivariable MEMS Sensor Array For Structural Health Monitoring Systems' , (DSTO)
12:00	CSM11: Shoko S. Takenaga, Y. Tamai, M. Ishida, K. Sawada, 'Highly Sensitive Charge Transfer Type Hydrogen Ion Image Sensor By Charge Accumulation Technique' , (Toyoashi University Of Technology)	AO9: Wensyang W. Hsu, S. Chen, C. Chang, 'Output Force Characterization Of Scratch Drive Actuators With Flexible Joints' , (National Chiao Tung University)	OMN15: Huaiwen A. Emadi, H. Wu, S. Grabarnik, G. De Graaf, R. Wolffenbuttel, 'Using A Linear Variable Optical Filter For A Microspectrometer Operating In The Visible Spectral Range' , (Delft University Of Technology)	SSASN5: Tomohiko T. Toyonaga, K. Nakade, T. Fujita, K. Maenaka, 'Novel Corona Charging Method For Electret Power-Harvester Using Buried Grid-Electrodes' , (University Of Hyogo)
12:15 - 1:45	Lunch			

APCOT-2010 Program, Day 3, Friday, 9th July 2010

Time	Short Course Session 1	Short Course Session 2
1:45 - 3:10	Short Course: Professor Tanya Monro, Emerging optical fibres: fabrication, optical properties and new opportunities (Uni. Of Adelaide)	Short Course: Dr. Janusz Bryzek , "Starting the Startups Silicon Valley Way" , (Jyve Inc.)
3:10 - 3:35	Coffee Break	
3:35 - 5:00	Short Course: Professor Arnan Mitchell, Optical waveguides as a platform for sensing (RMIT University)	Short Course: Dr. Sunghoon Kwon, "Optofluidics" , (Seoul National University)
5:00	End of Conference	

POSTER SESSION (Wednesday)

APCOT-2010 Program, Day 1, Wednesday, 7th July 2010

5:00-6:30 : Wednesday Poster Session

Bio Microsystems and Fluidic Systems

WP1: C. Lin, C. Tseng, C. Huang, J. Wang, G. Lee, 'Nonimmunological Determination Of Microalbumin By A Microchip', (National Cheng Kung Univ.) - PRESENTER:Chun-Che Lin

WP2: N. Harris, M. Hill, A. Keating, 'Sub-Wavelength Ultrasonic Lipid Manipulation Utilising Em-Bossed Plastic Channels', (University Of Southampton) - PRESENTER:Nick Harris

WP3: Y. Ko, J. Maeng, S. Ha, B. Han, H. Kim, Y. Ahn, S. Hwang, 'Microfluidic Device For Motile Sperm Separation By Chemotaxis And Thermotaxis', (Hanyang University) - PRESENTER:Yoomin Ahn

WP4: J. Shyu, S. Dai, S. Yang, K. Yang, C. Wang, 'Measurement And Visualization Of Bubble Venting In Microchannels With A Nanoporous Membrane', (Department of Mechanical Engineering, National Kaohsiung University of Applied S) - PRESENTER:Jin-Cherng Shyu

WP5: Y. Noda, T. Suzuki, I. Kanno, H. Kotera, 'A Fully-Integrated Complete Blood Count (Cbc) Chip For Poct', (Department Of Micro Engineering, Kyoto University) - PRESENTER:Yuichiro Noda

WP6: Y. Noda, T. Suzuki, I. Kanno, H. Kotera, 'Polystyrene Microdispenser Module For Blood Tests Using Hydrophobic Passive Valve', (Department Of Micro Engineering, Kyoto University) - PRESENTER:Yuichiro Noda

WP7: Y. Sakai, R. Yokokawa, A. Okonogi, H. Kotera, 'Adhesion Force Measurement Of Protein-Coated Microspheres Using Shear Stress In A Microfluidic Channel', (Kyoto University) - PRESENTER:Yusuke Sakai

WP8: K. Kim, J. Choi, Y. Hong, G. Kim, K. Choi, J. Lee, S. Yang, 'Atmospheric Cold Plasma-Jet For Cancer Therapy', (Ajou University) - PRESENTER:Kangil Kim

WP9: J. Chou, D. Wu, 'Fabrication Of Multi-Sensor Based On Microfluidic Device', (Graduate School Of Electronic Engineering, National Yunlin University Of Science) - PRESENTER:Jung Chuan Chou

WP10: J. Chou, M. Wu, 'Wireless Sensor Network For Flexible Ph Array Sensor', (Graduate School Of Electronic Engineering, National Yunlin University Of Science) - PRESENTER:Jung Chuan Chou

WP11: J. Shyu, S. Dai, Z. Huang, J. Miao, 'Study Of Bubble Generation In Microfluidic Fuel Cells With Hydrogen Peroxide', (Department of Mechanical Engineering, National Kaohsiung University of Applied S) - PRESENTER:Jin-Cherng Shyu

WP12: T. Kawashima, T. Okada, T. Shibata, A. Matsuda, T. Mineta, E. Makino, 'Microimprint Fabrication Of Optical Waveguide Based On Organic-Inorganic Hybrid Materials For On-Chip Medical Diagnosis', (Toyohashi University Of Technology) - PRESENTER:Takahiro Kawashima

WP13: M. Kamarudin, M. Ahmad, A. Aljunid Merican, A. Md Shakaff, K. Ismail, N. Mustapa, 'Bacterial Bioremediation Of Ammonium Using Indothymol Method', (Universiti Malaysia Perlis, Malaysia) - PRESENTER:Mohd Noor Ahmad

WP14: R. Landgraf, S. Arndt, A. Guenther, W. Fischer, 'Microfluidic System For Biochemical Sensor Applications', (TU Dresden, Institute Of Semiconductors And Microsystems) - PRESENTER:Rene Landgraf

WP15: V. Blondeau-Patissier, C. Elie-Caille, J. Friedt, S. Ballandras, 'Monitoring Bio-Molecular Interactions Using Love-Wave Sen-Sors With Delay-Lines Configuration', (FEMTO-ST Institute) - PRESENTER:Virginie Blondeau-Patissier

WP16: Y. Yang, Z. Shen, A. Liu, 'Nonlinear Liquid Waveguide With Dispersion And Interference Effect', (Nanyang Technological University) - PRESENTER:Ai-Qun Liu

APCOT-2010 Program, Day 1, Wednesday, 7th July 2010

5:00-6:30 : Wednesday Poster Session (Continued)

Chemical Sensors and Microsystems

WP17: M. Shafiei, A. Sadek, J. Yu, K. Latham, M. Breedon, D. McCulloch, K. Kalantar-Zadeh, W. Wlodarski, 'Pt/Wo₃ Nano-Platelets Based Schottky Diode For Hydrogen Gas Sensing Applications', (RMIT University) - PRESENTER:Mahnaz Shafiei

WP18: C. Park, K. Joo, Y. Han, K. Park, S. Kong, S. Kang, H. Kim, 'Optical Sensing Of Solvents Using Selective Tensile Effects Of A Polymer-Coated Fiber Bragg Grating ', (School Of Electrical Engineering And Computer Science, Kyungpook National Univer) - PRESENTER:Hak Rin Kim

WP19: A. Wisitsoraat, C. Oros, D. Phokharatkul, P. Limsuwan, A. Tuantranont, 'Gas Sensing Properties Of Carbon Nanotubes Doped Molybde-Num Oxide Thin Film Prepared By Electron Beam Evaporatio', (National Electronic And Computer Technology Center) - PRESENTER:Anurat Wisitsoraat

WP20: A. Cranny, N. Harris, A. Lewis, M. Nie, J. Wharton, R. Wood, K. Stokes, 'Screen-Printed Platinum Electrodes For The Detection Of Cupric And Ferric Ions In High Chloride Backgrounds', (University Of Southampton) - PRESENTER:Andy Cranny

WP21: B. Yadav, S. Singh, A. Yadav, S. Rasool, 'Liquefied Petroleum Gas Sensing With Nanostructured Iron Antimony Oxide Synthesized Via Co-Precipitation Route', (Lucknow University, Lucknow) - PRESENTER:B C Yadav

WP22: J. Chou, C. Liu, 'Electrochromic Property Of Sol-Gel Derived TiO₂ Thin Film For Ph Sensor', (Graduate School Of Electronic Engineering, National Yunlin University Of Science) - PRESENTER:Jung Chuan Chou

WP23: R. Luo, S. Bai, W. Yang, G. Zhou, A. Chen, C. Liu, 'Preparation Of Moo₃-Sno₂ Nanocomposites And Sensing Properties To No₂', (Beijing University Of Chemical Technology) - PRESENTER:Ruixian Luo

WP24: K. Shin, L. Al-Mashat, S. Han, K. Kalantar-Zadeh, W. Wlodarski, 'Graphene/Polythiophene Nanocomposite Based Hydrogen Gas Sensor', (RMIT University) - PRESENTER:Laith Al-Mashat

WP25: M. Yaacob, J. Ou, O. Berger, W. Fischer, K. Kalantar-Zadeh, W. Wlodarski, 'Gasochromic Response Of Electron-Beam Deposited Wo₃ Thin Films Towards Low Concentrations Of Hydrogen', (RMIT University) - PRESENTER:Mohd Yaacob

WP26: C. Pan, J. Shiea, S. Kuo, C. Lin, 'Chip-Based Dielectric Barrier Discharge Plasma For Rapid Mass Spectrometry Analysis Of Chinese Herb Medicines', (Department Of Mechanical And Electro-Mechanical Engineering, National Sun Yat-Se) - PRESENTER:Chih-Jung Pan

WP27: M. Penza, A. Sadek, P. Aversa, S. Phanichphant, K. Kalantar-Zadeh, W. Wlodarski, 'Saw Gas Sensors With Nb-Doped Titania Nanoparticles Layers', (Enea) - PRESENTER:Michele Penza

WP28: G. Zhixian, L. Nan, S. Pu, W. Hongyong, C. Fuhuan, 'Multiplexed Suspension Array For Simultaneous Detection Of Pesticide And Veterinary Drug Residues', (Tianjin Key Laboratory Of Risk Assessment And Control Technology For Environmen) - PRESENTER:Gao Zhixian

WP29: N. Yamazoe, K. Shimanoe, 'Theoretical Derivation Of The Response Of Neat Semiconductor Gas Sensor To Reducing Gas', (Kyushu University) - PRESENTER:Noboru Yamazoe

WP30: A. Asgari, 'The Effects Of Ph On I-V Characteristics Of Algan/Gan High Electron Mobility Transistors', (University of Tabriz) - PRESENTER:Ashgar Asgari

APCOT-2010 Program, Day 1, Wednesday, 7th July 2010

5:00-6:30 : Wednesday Poster Session (Continued)

Materials and Device Characterization

WP31: V. Amaral, S. Meier, M. Koenig, S. Schnackenberg, T. Amann, 'Effects Of An External Magnetic Field On Pecvd Deposition Of Dlc/Bn Coatings', (CSIRO Materials Science and Engineering) - PRESENTER:Vinicius Amaral

WP32: Y. Lai, Y. Juang, S. Huang, S. Tseng, H. Tsai, 'Effective Mechanical Properties Measurements In Standard Ic Cmos Process', (National Chip Implementation Center, National Applied Research Laboratories, Hsi) - PRESENTER:You-Liang Lai

WP33: X. Jiang, A. Yu, 'Catalytic Properties Of Shape-Controlled Iron Oxide Nanoparticles', (University Of New South Wales) - PRESENTER:Xuchuan Jiang

WP34: Y. Noda, T. Suzuki, A. Okonogi, I. Kanno, H. Kotera, 'Surface Modification Of Polystyrene By Peo/Ppo Block Copolymer Pluronic To Prevent Blood Adhesion', (Department Of Micro Engineering, Kyoto University) - PRESENTER:Yuichiro Noda

WP35: T. Namazu, T. Ishikawa, K. Yoshiki, S. Inoue, Y. Hasegawa, 'Strength Evaluation Of The Pressure-Sintered Si-C Structures Derived From Polycarbosilane Precursor', (University of Hyogo) - PRESENTER:Takahiro Namazu

WP36: S. Khumpuang, N. Shibayama, S. Takamatsu, T. Kobayashi, T. Itoh, 'Characterization Of A Swnt-Reinforced Conductive Polymer And Patterning Technique For Applications Of Electronic Textile', (BEANS Laboratory) - PRESENTER:Sommawan Khumpuang

WP37: J. Chou, Y. Chiu, S. Yang, 'Enhanced Performance Of A Dye-Sensitized Solar Cell With A Silver Reflected Film', (Graduate School Of Electronic Engineering, National Yunlin University Of Science) - PRESENTER:Jung Chuan Chou

WP38: N. Goami, T. Namazu, N. Yamashita, N. Naka, S. Kakinuma, K. Nishikata, K. Ohtsuki, K. Yoshiki, S. Inoue, 'Influence Of Electron Beam Irradiation To SiO₂/Si Surface On Stress Evaluation Using Laser Raman Spectroscopy', (University of Hyogo) - PRESENTER:Takahiro Namazu

WP39: S. Hsieh, Y. Haung, J. Wang, T. Nee, 'Influence Of Growth Interruption Of Quasi-Quantum Dot Nanostructure In Ingan/Gan Multiple Quantum Well Heterosystems', (Chang Gung University) - PRESENTER:Tzer-En Nee

WP40: H. Yu, Y. Chen, W. Li, L. Ji, 'Design Of Healthy Monitoring System Based On Application Of Sensor Networks In Optical Fiber Intelligent Structures', (College of Energy & Power Engineering, Nanjing University Of Aeronautics & Astro) - PRESENTER:Hongmin Yu

WP41: Z. Zhao, M. Zheng, L. Liu, 'Measurement Of Cotton Fibre Based On Microscopic Fluorescence Image Capturing System ', (Nanjing University Of Aeronautics And Astronautics) - PRESENTER:Zhimin Zhao

WP42: J. Chou, W. Chang, C. Chen, 'Electrochromic Property Of WO₃ Thin Film For Na⁺ Ion Sensing', (Graduate School Of Electronic Engineering, National Yunlin University Of Science) - PRESENTER:Jung Chuan Chou

WP43: J. Xie, C. Lee, M. Wang, 'A New Test Structure For Characterization Of Seebeck Coefficient Of Doped Polysilicon Films' - PRESENTER:Jin Xie

WP44: J. He, A. Win, Y. Soh, M. Tsai, B. Soon, J. Ng, H. Feng, 'Electromechanical Coupling Coefficient Extraction For AlN Fbar Application' - PRESENTER:H.E Han Johnny

APCOT-2010 Program, Day 1, Wednesday, 7th July 2010

5:00-6:30 : Wednesday Poster Session (Continued)

Nano Devices and Nanotechnology & Optical MEMS and Nano-optics

WP45: J. Yu, M. Shafiei, M. Breedon, K. Kalantar-Zadeh, W. Wlodarski, 'Pt/Nanostructured Moo3 Schottky Diode Based H2 Gas Sensors ', (RMIT University) - PRESENTER:Jerry Yu

WP46: J. Karamdel, C. Dee, M. Salleh, B. Majlis, 'Synthesis And Growth Of Catalyst Free Al-Doped Zno Nanorods On Azo Buffer Layer', (Islamic Azad University- South Tehran Branch- Iran) - PRESENTER:Javad Karamdel

WP47: H. Yuan, H. Kwon, S. Yeom, S. Kang, 'A New Biosensor Based On Ion Sensing Using Gated Lateral Bi-Polar Junction Transistor (Lbjt) Device', (School of Electrical Engineering and Computer Science,Kyungpook National Unvers) - PRESENTER:Heng Yuan

WP48: L. Lou, W. Xiang, M. Leo, C. Lee, 'Characterization Of Electrostatic Driven Nems Switch Using Torsion Spring' - PRESENTER:Vincent C. Lee

WP49: J. Chou, M. Liu, Y. Yu, 'Wo3 Compact Layer For Dye Sensitized Solar Cell', (Graduate School Of Electronic Engineering, National Yunlin University Of Science) - PRESENTER:Jung Chuan Chou

Actuators

WP50: T. Sugiyama, M. Aoyama, G. Hasiguchi, 'Alkali Ion Included Sio2 Electret For Comb Drive Actuator', (Research Institute of Electronics, Shizuoka University) - PRESENTER:Tatsuhiko Sugiyama

WP51: P. Li, C. Lu, T. Chen, M. Hou, 'The Flight Of Microrobots', (National United University) - PRESENTER:Max Ti-Kuang Hou

WP52: J. Shyu, K. Hsu, C. Wang, 'Characterization Of Thermal Performance Induced By Piezoelectric Fans', (Department of Mechanical Engineering, National Kaohsiung University of Applied S) - PRESENTER:Jin-Cherng Shyu

WP53: L. Ribetto, A. Homsy, N. De Rooij, 'Flow Recirculation When Pumping Liquids With Ac Electric Fields: Experiments And Simulations', (Ecole Polytechnique Fédérale De Lausanne, IMT, SAMLAB) - PRESENTER:Luca Ribetto

POSTER SESSION (Thursday)

APCOT-2010 Program, Day 2, Thursday, 8th July 2010

5:00-6:30 : Thursday Poster Session

Fabrication Technologies

TP1: S. Liu, 'Aligned Carbon Nanotube Bundle Array Grow From Local Vias By Integrated Micro-Heaters', (Northwestern Polytechnical University) - PRESENTER:Shibin Liu

TP2: A. Lewis, A. Cranny, N. Green, M. Nie, J. Wharton, R. Wood, K. Stokes, N. Harris, 'Novel Fabrication Method For Rapid Creation Of Channels Using Pdms For Microfluidic Networks On Planar Substrates', (University Of Southampton) - PRESENTER:Adam Lewis

TP3: H. Liu, D. Chang, 'Simulation-Aided Probe Tip Design And Fabrication Of Cantilevers For Atomic Force Microscope', (National Cheng Kung University) - PRESENTER:Hao-Chih Liu

TP4: B. Tang, H. Amakawa, M. Shikida, H. Hida, N. Inagaki, P. Pal, K. Sato, 'Characterization Of Etching Anisotropy In A Surfactant-Added Tmah Solution, And Its Application To Scalping Reduction', (Nagoya University) - PRESENTER:Bin Tang

TP5: C. Wu, W. Hsu, Y. Lin, 'Optimization Of Optical Disc Manufacturing Process For Polymer Microfluidic Substrate By Using The Doe Methodology', (Department Of Engineering Science, National Cheng Kung University) - PRESENTER:Yu-Cheng Lin

TP6: J. Hsu, B. Huang, J. Chiang, 'Synthesis And Characterization Of Silicon Nanowires On Al₂O₃ Substrate Using A Parallel Plate Structure', (Department Of Electronic Engineering, Chung Chou Institute Of Technology) - PRESENTER:Jung-Fu Hsu

TP7: R. Jimenez-Diaz, J. Prades, J. Morante, F. Hernandez-Ramirez, A. Cornet, A. Romano-Rodriguez, 'Dielectrophoretic Alignment Of Nanowires For The Fabrication Of Functional Devices', (Universitat De Barcelona) - PRESENTER:Albert Cornet

TP8: V. Dau, T. Yamada, D. Dao, T. Bui, K. Hata, S. Sugiyama, 'Mems Process Of Cnts Thin Film And Its Application', (Ritsumeikan University) - PRESENTER:Van Thanh Dau

TP9: Y. Lin, W. Hsu, 'Feasibility Study On Using Polymer As Protecting Material In Fabricating Suspended Single-Crystal-Silicon Microstructures', (Department Of Mechanical Engineering, National Chiao Tung University) - PRESENTER:Yu-Hsin Lin

TP10: R. Oka, T. Shibata, T. Kawashima, T. Mineta, E. Makino, 'Development Of Maskless Patterning Technique Based On Electroplating With Microneedle Array', (Toyohashi University Of Technology) - PRESENTER:Ryotaro Oka

TP11: N. Ranganathan, M. Bourke, L. Yu, S. Mohanraj, R. Kumar, 'Development Of A Manufacturable Sub-20 Nm-Smooth Sidewall Bosch Etch Process For Advanced Tsv Application' - PRESENTER:N Ranganathan

TP12: V. Bliznetsov, A. Maniskam, L. Trang, N. Ranganathan, R. Kumar, 'Plasma Etching Of Polydimethylsiloxane For Mems And Nems Application' - PRESENTER:Vladimir Bliznetsov

Mechanical and Physical Sensors

TP13: K. Suzuki, R. Ueno, H. Honda, K. Ishii, I. Fujiwara, K. Yagi, K. Sasaki, H. Kwon, M. Ogata, H. Funaki, 'A 320 X 240 Pixel Uncooled Infrared Radiation Focal Plane Array And Its Chip-Scale Vacuum Packaging', (Toshiba Corporation) - PRESENTER:Kazuhiro Suzuki

TP14: I. Stachiv, A. Fedorchenko, 'Determination Of The Viscosity By Using Microcantilevers As Sensing Devices', (Institute of Physics of AS CR, v. v. i.) - PRESENTER:Ivo Stachiv

TP15: C. Feng, Z. Tang, J. Yu, J. Wang, 'Uprightness Multilevel Microbridge Structures In A Standard Cmos Technology For Studying The Near-Field Thermal Radiation', (School Of Electronic Science And Technology, Dalian University Of Technology) - PRESENTER:Chong Feng

TP16: C. Lo, H. Toshiyoshi, 'Low-Cost Visual Curvature Sensor By Interferometer', (National Tsing Hua University) - PRESENTER:Cheng-Yao Lo

APCOT-2010 Program, Day 2, Thursday, 8th July 2010

5:00-6:30 : Thursday Poster Session (Continued)

Mechanical and Physical Sensors

TP17: Z. Zhiguo, K. Hyun Oh, J. Seong Ki, J. Ho, K. Seong Ho, 'Design And Fabrication Of Amorphous Silicon Based Thermal In-Frared Detector With Improved Characteristics', (KyungPook National University) - PRESENTER:Zhao Zhiguo

TP18: K. Yamashita, K. Yoshikawa, T. Kawata, F. Inoue, Y. Teranishi, M. Noda, 'Piezoelectric Resonant Microcantilever Sensors And Multi-Axis Force Detection', (Kyoto Institute Of Technology) - PRESENTER:Kaoru Yamashita

TP19: N. Matsunaga, T. Yokota, M. Shikida, T. Kawabe, M. Matsushima, S. Iwai, K. Sato, 'Implantable Flow Sensor Into Airway For La-Boratory Animal', (Nagoya University) - PRESENTER:Naoyuki Matsunaga

TP20: S. Iwai, T. Yokota, M. Shikida, T. Funaki, N. Matsunaga, K. Sato, 'Characteristics Of Thermal Type Flow Sensor Under Reciprocating Flow Conditions', (Nagoya University) - PRESENTER:Satoshi Iwai

TP21: K. Jang, D. Cho, W. Yoo, J. Seo, J. Heo, B. Lee, E. Hwang, D. Shin, S. Park, 'Measurement Of Relative Depth Dose Using A Fiber-Optic Radiation Sensor For Proton Therapy Dosimetry', (Konkuk University) - PRESENTER:Kyoung Won Jang

TP22: K. Rajanna, J. Singh, M. Nayak, K. Nagachenchaiah, 'Flow Measurement Using Mems Based Piezoresistive Sensor', (Indian Institute Of Science) - PRESENTER:K Rajanna

TP23: Y. Zhang, T. Maeno, N. Miki, 'Development Of An Artificial Fingertip-Shape Tactile Sensor With Mems Technology For A High Sensitivity', (Keio University) - PRESENTER:Yuhua Zhang

TP24: A. Penirschke, A. Angelovski, R. Jakoby, 'Helix Shaped CrIh-Massflow-Sensor For The Detection Of Pneumatically Conveyed Inhomogeneous Distributed Pulverized Mixtures ', (Technische Universitaet Darmstadt) - PRESENTER:Andreas Penirschke

TP25: J. Seo, W. Yoo, D. Cho, K. Jang, J. Heo, B. Lee, J. Moon, B. Park, S. Kim, 'Characteristic Analysis Of A Fiber-Optic Temperature Sensor Using Thermochromic Pigments', (School Of Biomedical Engineering, Research Institute Of Biomedical Engineering,) - PRESENTER:Jeong Ki Seo

TP26: H. Yu, X. Hong, P. Li, 'Study On The Optical Performance Of Liquid-Core Optical Fiber And Core Liquid Based On Light-Curing', (College of Energy & Power Engineering, Nanjing University Of Aeronautics & Astro) - PRESENTER:Hongmin Yu

TP27: R. Amarasinghe, D. Dao, S. Sugiyama, 'Nems Multi-Axis Accelerometer With Nanoscale Sensing Elements', (Ritsumeikan University) - PRESENTER:Ranjith Amarasinghe

TP28: B. Azizollah Ganji, B. Yeop Majlis, 'Fabrication Of A Novel Mems Microphone Using Lateral Slotted Diaphragm', (Babol University Of Technology) - PRESENTER:Bahram Azizollah Ganji

Packaging and Assembly Technology

TP29: K. Jang, D. Cho, W. Yoo, J. Seo, J. Heo, B. Lee, E. Hwang, D. Shin, S. Park, 'Measurement Of Relative Depth Dose Using A Fiber-Optic Radiation Sensor For Proton Therapy Dosimetry', (Konkuk University) - PRESENTER:Kyoung Won Jang

TP30: K. Rajanna, J. Singh, M. Nayak, K. Nagachenchaiah, 'Flow Measurement Using Mems Based Piezoresistive Sensor', (Indian Institute Of Science) - PRESENTER:K Rajanna

TP31: Y. Zhang, T. Maeno, N. Miki, 'Development Of An Artificial Fingertip-Shape Tactile Sensor With Mems Technology For A High Sensitivity', (Keio University) - PRESENTER:Yuhua Zhang

TP32: A. Penirschke, A. Angelovski, R. Jakoby, 'Helix Shaped CrIh-Massflow-Sensor For The Detection Of Pneumatically Conveyed Inhomogeneous Distributed Pulverized Mixtures ', (Technische Universitaet Darmstadt) - PRESENTER:Andreas Penirschke

APCOT-2010 Program, Day 2, Thursday, 8th July 2010

5:00-6:30 : Thursday Poster Session (Continued)

RF MEMS/NEMS

TP33: C. Lee, C. Ko, T. Huang, C. Wang, 'Cmos-Mems Rf Switch With Anti-Stress Membrane Design', (Microsystems Technology Center, Industrial Technology Research Institute) - PRESENTER:Chiung-I Lee

TP34: B. Liu, Z. Lv, X. He, Z. Li, 'Microspring Contact For Enhancement Of Power Handling And Reliability In Rf Mems Switch', (Institute Of Microelectronics, Peking University, Beijing, China) - PRESENTER:Bo Liu

TP35: A. Joshi, R. Gandhi, K. Natarajan, D. Bodas, S. Gangal, 'High Isolation Surface Micromachined Rf-Mems Switches: Low Cost Approach', (Agharkar Research Institute) - PRESENTER:Dhananjay Bodas

TP36: S. Kang, W. Prk, Y. Jang, H. Kim, K. Chun, 'A Wafer-Level Packaged Single-Pole Eight-Throw Rf Microelectromechanical Switch' - PRESENTER:S Kang

TP37: M. Tang, S. Praveen, J. Ho, J. Shi, Y. Lee, T. Lim, R. Li, R. Kumar, L. Khine, 'Fabrication And Characterization Of Low Loss Transmission Line With Bcb Membrane On Silicon Cavity Up To 110 Ghz', (Nagoya University) - PRESENTER:Bin Tang

Sensing Systems, Algorithms and Sensor Networks

TP38: A. Krajewski, R. Helmer, S. Lucas, 'Signal Processing For Valid Score Determination In Boxing', (CSIRO) - PRESENTER:Stuart Lucas

TP39: J. Chou, C. Chen, 'Data Fusion For Flexible Calcium Ion Array Sensor', (Graduate School Of Electronic Engineering, National Yunlin University Of Science) - PRESENTER:Jung Chuan Chou

TP40: C. Yuanhui, T. Zhen'An, Y. Jun, 'Evaluation Of Safety State Of Lng Tank With Multisensors And Decision Tree Algorithm', (DaLian University Of Technology) - PRESENTER:Cui Yuanhui

TP41: J. Kim, T. Ahn, B. Moon, Y. Jo, K. Kim, S. Hong, 'Capacitive Humidity Sensor With Readout Ic For Full Digital Output', (Korea University) - PRESENTER:Ji-Hong Kim

TP42: J. Chou, C. Kan, C. Chen, 'Readout Circuit Design Of A Low Harmonic Distortion Rail-To-Rail Op-Amp Applied To Tio2:Ru Ph Sensors', (Graduate School Of Electronic Engineering, National Yunlin University Of Science) - PRESENTER:Jung Chuan Chou

TP43: J. Yu, S. Zhang, Z. Huang, G. Wei, Z. Tang, 'An Optimization Method For Selecting Gas Sensor Array', (Department Of Electronic Engineering, Dalian University Of Technology) - PRESENTER:Jun Yu

TP44: Z. Zhao, H. Zhang, 'Analysis And Process Of Deformation Information For Smart Structures Embedded With Optical Fiber Sensor Network', (Nanjing University Of Aeronautics And Astronautics) - PRESENTER:Zhimin Zhao

TP45: H. Hiroyki, Y. Jiang, K. Kanda, T. Fujita, K. Higuchi, K. Maenaka, 'Development Of A Real Time Monitoring System Combining A Human Body Patch Type Cardiography Sensor With Rf Transceiver', (Japan Science And Technology Agency) - PRESENTER:Hamada Hiroyki

Theory, Design, Analysis of MEMS and NEMS

TP46: R. Ab Rahim, B. Bais, B. Yeop Majlis, 'System-Level Simulation Of Mems Piezoresistive Cantilever-Based Sensor', (International Islamic University Malaysia) - PRESENTER:Rosminazuin Ab Rahim

TP47: Y. Lee, H. Lin, W. Hsu, 'A Rapid Fatigue Test Method On Microstructures', (National Chiao Tung University) - PRESENTER:YiChia Lee

TP48: W. Zhang, Q. Huang, H. Yu, 'A Lattice Dynamics Model For The Elasticity Of Silicon', (Southeast University) - PRESENTER:Weiwei Zhang