

ISCC2010 Scientific Program

Oct. 6, 2010

Hall			
10:00~ 10:15		Opening Session	
10:00		Opening Session	
10:20~ 12:30		Plenary Lecture Chairperson : S.Fujii	
10:20	SS01		K.Okuyama
11:05	SS02		V.Bergeron
11:50	SS03		J.Y. Sohn

Room I Zuiun				Room II Heian			
14:00~ 17:00				14:00~ 17:00			
ISO TC209 Session Chairperson : R.Mielke, S.Fujii				Technical Session A : IAQ-Microorganism Chairperson : B.Ljungqvist, K.Ikeda			
14:00	SS11	Summary of TC209	R.Mielke	14:00	A01	A Numerical Study on the Airflow Distribution within a Negative-pressure	Y.C.Shin
14:20	SS12	WG1	G.Fraquharson	14:16	A02	Relation between Health Problems in Schoolchildren and Fungous Contamination in the Houses	U.Yanagi
14:40	SS13	WG2	T.Harrison	14:32	A03	Case-Control Study for Association between Indoor Environment and Children's Health in Japan	H.Yoshino
15:00	SS14	WG8	D.Gibbons	14:48	A04	On the Actual Condition to Indoor Distribution in a High Alrtight Residence and Microbe Concentration	S.Ozao
				15:04	A05	A Newly Developed Clean Hood for Isolation of Patients Tought to Have Airborne Infectious Disease	S.Nishimura
15:20~15:40 Coffee Break(20minutes)				15:20~15:40 Coffee Break(20minutes)			
				Chairperson : Y.C.Shih, U.Yanagi			
15:40	SS15	WG9	W.Straub	15:40	A06	Microbiological Air Sampling Equipment - A Comparative Study	B.Ljungqvist
16:00	SS16	WG10	D.Ensor	15:56	A07	Study of Bacteria Sterilization Effect by Using Microplasma	Y.Komuro
16:20	SS17	Cleanroom Suitability of Equipments	U.Gommel	16:12	A08	Study of Microbial Decontamination Method in Evaporative Humidifyer	T.Shimotsu
16:40	SS18	ICEB		16:28	A09	Air Filter with Inactivator of Influenza Virus	T.Mochizuki
				16:44	A10	Evaluation of the Take-off of Fungi from Finned Coil in HVAC System	H.Takahashi

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Oct. 7, 2010

Room I Zuiun				Room II Heian			
9:30~10:50		Technical Session B:Cleanroom-Airborne Molecular Contamination Chairperson : A.Shiue, N.Kagi		9:30~12:30		Technical Session E:IAQ-VOC, Chemical Chairperson : Y.J.Kim, Y.Ishizu	
9:30	B01	Monitoring of Airborne Molecular Contamination in FOUP and its Cleaning	L.Eungsun	9:30	E01	Degradation of the Poisonous Aldehyde Gas in Indoor by New Photocatalytic System	M.Hu
9:46	B02	Selective Detection of Dialkyl Phthalate by Molecular-Sieving Sensor	N.Katada	9:46	E02	Evaluation for Gas Removal Performance of Room Air Cleaners Using CADR Calculation Method	H.J.Kim
10:02	B03	High Sensitive Sampling Method Development of Low Molecular Weight Siloxane in Semiconductor Manufacturing	M.Douzono	10:02	E03	Adsorption Characteristics of VOCs in Indoor Air under an Applied Electric Field	T.H.Min
10:18	B04	Removal Efficiency of Ammonia Using Multiple Chemical Filters in a	M.Chang	10:18	E04	Tabletop Formaldehyde Hood with Induced Air Flow to Reduce the Exhaust Air Volume	M.Shinya
10:34	B05	Development of the Temporary and Additional Type Chemical Filter for cleanrooms	E.Takehiro	10:34	E05	A Study on the Deterioration of Gaseous Pollutant Removal Performance of Room Air Cleaners	A.Nozaki
10:50~11:10 Coffee Break(20minutes)				10:50~11:10 Coffee Break(20minutes)			
11:10~12:30		Technical Session C: Cleanroom- Decontamination Chairperson:H.Weiss sieker, M.Shimada		11:10~12:30		Technical Session F:Biological Cleanroom Chairperson : C.Murray, A.Kondo	
11:10	C01	Zero "0" Contamination Cleanrooms	H.Weiss sieker	11:10	F01	Viable and Non Viable Environmental Monitoring Strategy for Real Time Release in Pharma Industry	G.Dalmaso
11:26	C02	Influence of Internal Structure of Nanofibrous Filter Media on Particle Collection Performance	L.Bao	11:26	F02	Alternative Method for Airborne Contamination Control in Cleanrooms in Only Few Hours / Innovative Microbial Air	E.Machefer
11:42	C03	Effect of Atmospheric Aerosol Collected on MEPA Filter on Re-entrainment of Sea-salt Particle	K.Isawa	11:42	F03	Study on Doorway Airflow for Maintaining Clean Environment	T.Yamaguchi
11:58	C04	Effect of Humidity Swing Operation on SPM Size Distribution	N.Onoda	11:58	F04	Biosafety - Enhanced BSL3+ Facility Design & Performance Qualification	C.Murray
12:14	C05	Defect Grown from a Fine Particle as its Nucleus on a Si Wafer	H.Nagaike	12:14	F05	Revision of Japanese Industrial Standard of Class II Biological Safety Cabinet, JIS K 3800:2009	S.Hino
14:00~15:36		Technical Session D:Cleanroom-Surface Contamination Hospital Chairperson : G.Dalmaso, H.Habuka		14:00~15:36		Technical Session G:Evaluation of Contamination Chairperson : E.Machefer, K.Sekiguchi	
14:00	D01	Particle Deposition on a Semiconductor Wafer Larger Than 100 mm with Electrostatic Analytical Reliability Validation of Surface	K.H.Yoo	14:00	G01	Spacecraft Contamination Control Policy – The European Approach	R.Rampini
14:16	D02	Molecular Contaminants(SMCs) Evaluation on Substrate Surface	M.Murakami	14:16	G02	Development of Removal Technology for VOC in Exhaust Gas by Using Gas-Liquid Contact Method with PUF(Poly Urethane	R.Sasaki
14:32	D03	Rate Parameters and Surface Concentration Behavior in a Three Organic Compounds System on Silicon Surface	H.Habuka	14:32	G03	Investigation into Contamination inside Air-Conditioning Systems and Proposal of Air Quality Guideline	S.Shimizu
14:48	D04	Clean Air in Hospitals	A.E.Fedotov	14:48	G04	CO2 Emission of Double Skin Envelop by Life Cycle Assessment	Y.M.Kim
15:04	D05	Clothing Systems Used in Operating Rooms – A Question of Patient Safety	B.Ljungqvist	15:04	G05	Simultaneous Evaluation of Gas Emission Rate and Air Ventilation Rate in Closed System Disposal Facilities	Y.Suwa
15:20	D06	Germicidal Effect of Ultraviolet Germicidal Irradiation System for the Microbial Contamination on an Evaporative Humidifier	M.Sung	15:20	G06	Analysis of Time Variation in Atmospheric Particles Number by FUMI Theory, and its Application to Biological Agents Detection System	T.Okada

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Exhibition Hall

16:00~ 17:30		Poster Presentation (P1~P28)					
	P1	Treatment of nitrogen oxide and sulfur oxides using a non-thermal nano-pulse corona discharger for the industrial combustion of coal and waste	B.Han		P15	Measurement of particle on the glass surface by light-scattering from Different Angles	K.Sasaki
	P2	Quantitative Reversible Fixation-Release of Carbon Dioxide by Functional Cyclic	N.Aoyagi		P16	Photocatalytic degradation of VOC gases introduced into water as minute bubbles	K.Sekiguchi
	P3	A Study of an Evaluation Technique of the Hazardous Particulate Containment Performance in Facilities for Highly Active	S.Saitou		P17	Formation of Secondary Organic Aerosol from VOCs in Indoor Environment	T.Hara
	P4	Brief evaluation of ionic compounds in semiconductor manufacturing environment using highly sensitive solid phase active sampler	I.Shimada		P18	Evaluation of Indoor Air Pollution Using Biosensor Based on Japanese Medaka-Abnormal Behaviors of Japanese Medaka According to Dichlorvos Concentrations -	J.Kim
	P5	Equilibrium and breakthrough studies for adsorption of Toluene on an activated carbon adsorbent-loaded nonwoven fabric filter media applied to cleanrooms	A.Shiue		P19	Modeling and Application of Adsorptive Chemical Filters for Toluene Removal	A.Shiue
	P6	Monitoring airborne molecular contamination of cleanroom wipers with qualitative and quantitative techniques	A.Shiue		P20	A Study on the Odorants Emitted by Human Behaviors as Sources of Indoor Air Pollution	A.Nozaki
	P7	Development of the Prompt VOC Evaluation Method	T.Wakui		P21	A Study on the Ammonia and VOC Removal Performance of Air Fresheners	A.Nozaki
	P8	The Effect of Airflow Patterns on the Purification Efficiency of the Operating Room	J.Xing		P22	Studies on Gaseous Pollutants Removal Performance for the Toilet with Deodorization Devices	A.Nozaki
	P9	Airflow Characteristics in Cleanrooms with the Motion of Large Transport Vehicles	Y.Yamada		P23	A Study on the Indoor Air Pollutant Removal Performance of Room Air Cleaners	A.Nozaki
	P10	Research of Test Method for Cleanroom Garment Airborne Particle Filtration Efficiency	J.Huang		P24	Study on Decomposition of Organic Substances in the Liquid Phase Using Several Microbubble Generators and Photocatalyst	F.Yasui
	P11	Study on the Air Filter Unit Utilizing the Media Effect	J.Morita		P25	Formaldehyde Reduction Performance Test for Sorptive Building Materials with 20L Small Chamber System	H.Kim
	P12	The Influence of the Board around the Filter on the Test Result of HEPA Filter Scanning System	J.Ling		P26	A Field Survey on Indoor Air Pollution in the House where An Unvented Combustion Space Heater was Used	A.Nozaki
	P13	Collection Efficiency of Nanoparticles of Dust Respirators	T.Myojo		P27	Characteristics of Nanoparticles Emitted from Biomass Fuel Burning	M.Furuuchi
	P14	A Novel Qualitative Leak Scan Test Method for Installed HEPA/ULPA Filters Used in	Z.Xu		P28	Optimization of the Horizontal Spacing for the No-duct Inducing Fan System	J.Xing

BANQUET ROOM *Fukuju/Tougen*

18:00~ 20:00		Banquet
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ISCC2010 Scientific Program

Oct. 8, 2010

Room I Zuiun				Room II Heian			
9:30~10:50		Technical Session H:Cleanroom-Utility, Operation, Static electricity Chairperson :K.H.Yoo, Y.Suwa		9:30~10:50		Technical Session J:IAQ-Phenomena Chairperson : J.Liu, H.Tsutsumi	
9:30	H01	Nitrogen Purging of Front-opening Unified Pod(FOUP) for 450mm Wafer Manufacturing	C.Y.Khoo	9:30	J01	Secondary Particle Pollution of the Reaction between Ozone and HVAC Filter	L.Meng
9:46	H02	Study of Ultrasonic Parameters on Removal of Contamination from Slider Surface by Using Various Cleaning Chemistry	V.Rajagopal	9:46	J02	Study on Decomposition of Indoor Air Contaminant by Atmospheric Microplasma	T.Kuwabara
10:02	H03	Measure to the Airflow Fluctuation and the Contamination in Clean Stockers used for Large-scaled Glass Substrates	Y.Suwa	10:02	J03	Gaseous and Particulate SVOC Characteristics in Indoor Air	N.Kagi
10:18	H04	Experimental Study on Charging and Discharging Characteristics of Glass Substrate	W.Chen	10:18	J04	Infection Prevention against Pandemic Flu using Chlorine Dioxide Gas:Measurement of Reaction Rate Constant of Chlorine Dioxide Gas with Tedlar Bag	H.Tsutsumi
10:34	H05	Development of Ion-conveying-type Ionization System Generating Large Charged-particles by Ionic Nucleation of Water Vapor	M.Suzuki	10:34	J05	Measurement of Environmental Tobacco Smoke in Smoking Areas and Non-smoking Areas	Y.Ishizu
10:50~11:10 Coffee Break(20minutes)				10:50~11:10 Coffee Break(20minutes)			
11:10~11:50		Plenary Lecture Chairperson : S.Fujii					
11:10	SS04	D.Y.H.Pui					
13:30~15:54		Technical Session I:Cleanroom-Design Chairperson : L.H.Chien, S.Kato		13:30~15:54		Technical Session K:IAQ-Particle Chairperson : X.Yuan, M.Furuuchi	
13:30	I01	Prediction and Evaluation of Cleanliness Levels by Using Mean Air-age	K.C.Noh	13:30	K01	Laser-induced Damage of Fused Slica at 355nm Owing to Contamination Particles on	X.Miao
13:46	I02	Virtual Cleanroom -A Simulation System for Rapid Prototyping for Cleanroom Design-	A.Urano	13:46	K02	Study on Removing Contaminations on Optical Surface by Laser Cleaning	X.Yuan
14:02	I03	A Numerical Study of the Influence of Installing a Deflector at the Supply Air Inlet of a Non-unidirectional Cleanroom	L.H.Chien	14:02	K03	Evaluation of Personal Exposure to Ultrafine Aeroaol Particles Using Personal Nanoparticle Sampler	M.Furuuchi
14:18	I04	A Comparative Study of Local Exhaust/Ceiling Return and Wall Return Air Distribution Systems for Cleanrooms of ISO	S.C.Hu	14:18	K04	Development of Exhaust System for The Risk of Exposure to Nanoparticle with New Filter Maintenance method	N.Ebato
14:34~14:50 Coffee Break (16minutes)				14:34~14:50 Coffee Break (16minutes)			
		Chairperson : M.D. Oh, T.Asada				Chairperson : S.C.Hu, N.Namiki	
14:50	I05	Energy Reduction Experiment of an Exhaust Air Heat Recovery Type Outdoor Air Conditioning System for Semiconductor Manufacturing Clean Rooms	K.H.Yoo	14:50	K05	Survey of Workplace Environment at Facility Handling Carbon Nanotube	H.Tani
15:06	I06	Study on Saturation Efficiency of Water Spray Humidification Unit	J.Koyama	15:06	K06	Evaluation of Ultrafine Particles (UFP) Emitted from Laser Printers	A.Shirane
15:22	I07	The Bayesian Statistics for the Sequential Sampling Procedure in the Classification of Air Cleanliness for Cleanrooms	K.Shirono	15:22	K07	Characterization of Ultrafine Particle Collection for Various Air Filters and their Application to Laser Printers	K.Taniguchi
15:38	I08	Method for Evaluating Performance of Air-cleaning System	H.Hasebe	15:38	K08	Characterization of Ultrafine Particle Generation from Laser Printers Using Different Types of Chambers	N.Namiki
16:00~16:10		Closing Session					
16:00		Closing Session					