

4th Japan/US Symposium on Pulsed Power and Plasma Applications
 August 5th and 6th, 2010
 Honolulu, Hawaii
 Event Schedule

Wednesday, August 4th, 2010				
Start	End	Event	Topics/Presentations/Activities	Speaker
6:00 PM	8:00 PM	Reception	Poolside welcome for participants and their guests	

Thursday, August 5th, 2010				
Start	End	Event	Topics/Presentations/Activities	Speaker
7:30 AM	10:00 AM	Registration	Check-in and late registrations	
7:30 AM	8:30 AM	Breakfast		
8:30 AM	8:45 AM		Opening remarks	Bayne , Jaing
8:45 AM	9:30 AM		Plenary Invited Talk: Army Power & Energy Technology Development - Progress and Challenges	Ed Shaffer
			Topic: Pulse Power Systems; Chair: John Mankowski	
9:30 AM	9:45 AM		Voltage Control of Pulsed Power using FPGA	Masahiro Akiyama
9:45 AM	10:00 AM		Methods for Improving Efficiency and Reliability on the SNS Pulsed Converter Modulator	David E. Anderson
10:00 AM	10:15 AM	Break		
10:15 AM	10:30 AM		A Pulse Width Modulated Picket Fence Pulser To Reduce Accelerator Start-Up Transients	W.A. Reass
10:30 AM	10:45 AM		Improving Reflex Triode X-ray Efficiency at 10 Million Amps*	B.V. Weber
10:45 AM	11:00 AM		Phenomena of Discharge Plasmas in Water Produced by High Repetitive Pulsed Power Generator	Hidenori Akiyama
			Topic: Components for Pulse Application; Chair: Heather O'Brien	
11:00 AM	11:15 AM		Electrical Conduction at Elevated Temperatures for Various Heat Resistant Polymers	Janet Ho
11:15 AM	11:30 AM		Overview of High Energy Density Capacitors Development	T. Richard Jow
11:30 AM	11:45 AM		Scalable, Compact, Nanosecond Pulse Generators Based on Magnetic Pulse Compression and Diode Opening Switches	J. M. Sanders
11:45 AM	12:00 AM		Silicon Carbide Super-GTO Development and Evaluation	Heather O'Brien
12:00 PM	1:00 PM	Lunch		
1:00 PM	1:15 PM		Compact LTD Module Using Power MOSFETS	Weihua Jiang
1:15 PM	1:30 PM		Parallel Plate Transmission Line Transformer	S.J. Voeten
			Topic: Applications 1; Chair: Hidenori Akiyama	
1:30 PM	1:45 PM		Biological Response of HeLa Cells to the Application of Non-thermal Burst AC Fields	Sunao Katsukia
1:45 PM	2:00 PM		Improvement of Mushroom Yield in Lentinula Edodes Cultivation Using Pulse Voltage Stimulation	Koichi Takaki
2:00 PM	2:15 PM		Green Pulsed Power Achieved By Efficient Solid State Pulsed Power Technology	Walter Crewson
2:15 PM	2:30 PM		Semiconductor Switching	Jim Dickens
4:15 PM	7:30 PM	Entertainment	Sunset Catamaran Cruise	

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Friday, August 6th, 2010				
Start	End	Event	Topics/Presentations/Activities	Speaker
7:30 AM	8:30 AM	Breakfast		
			Topic: Applications 2; Chair: David Hemmert	
8:30 AM	8:45 AM		Treatment of Ship's Ballast Water By Irradiation of Pulsed, Intense Relativistic Electronic Beam	Hironobu Kondo
8:45 AM	9:00 AM		High speed surface modification of polyimide film using atmospheric pressure microwave excited plasma	Shigeru Ono
9:00 AM	9:15 AM		Inactivation of microorganism in ballast water using atmospheric discharge	Shoichi Abe
9:15 AM	9:30 AM		Dynamic Behavior and Output Power Control of a Fast Response MHD Generator	Takayuki Kaneko
			Topic: Plasma and High Voltage; Chair: Weihua Jiang	
9:30 AM	9:45 AM		Simulation of Non-Linear DielectricEfficient Microwave Generation	W. Nunnally
9:45 AM	10:00 AM		A Multi-Stage Synchronous Plasma Arc Railgun	John Mankowski
10:00 AM	10:15 AM	Break		
10:15 AM	10:30 AM		Process of Pulsed Electrical Breakdown in High-Pressure Carbon Dioxide Including Supercritical Phase	Tsuyoshi Kiyari
10:30 AM	10:45 AM		High Efficient Relativistic Magnetron with Diffraction Output Driven by a Transparent Cathode	Mikhail Fuks
10:45 AM	11:00 AM		Imaging a Surface Discharge	S.J. Voeten
11:00 AM	11:15 AM		High Frequency Electric Autocorrelator	S.J. Voeten
11:15 AM	11:30 AM		Discharge Phenomena of Nano-Seconds Pulsed Discharge	Douyan Wang
11:30 AM	11:45 AM		Xe-based Z-pinch gas jet type DPP EUV source for lithography	Bin Huang
11:45 AM	12:00 AM		High Power Microwave System Efficiencies	John Krile
12:00 PM	1:00 PM	Lunch		
1:00 PM	1:15 PM		Recycling of Consumer Electronic Waste with Shockwaves in Liquid Nitrogen	David Hemmeret
1:15 PM	1:30 PM		Compact Back-Light Thyratrons for Applications in High Power Submicrosecond Pulse Modulators	J. M. Sanders
1:30 PM	1:45 PM		Quantitative Analysis on Thin Metal Wire Annealing at Atmospheric Plasma in Cylindrical Reactor	Hayato Ishizuka
1:45 PM	2:00 PM		Velocity Measurement and Examination of Electrode Shape in Pulsed MHD Acceleration	Tetsuya Suzuki
2:00 PM	2:15 PM		Ending remarks	Bayne , Jaing
4:00 PM	9:00 PM	Entertainment	Hawaiian Luau	

Total Presentations	32
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