

電気学会研究会資料目次

プラズマ 合同研究会 パルスパワー

テーマ「パルスパワーとプラズマの応用」

PST -02-60	Optical Measurement of Localized Plasma after Pulsed Discharges in Liquid Helium	
PPT -02-17	Chikara Kojima, Shigeyuki Komatsu, Kazuo Minami (Niigata University)	1
PST -02-61	PEGASUS: Unified simulation software for plasma processing and rarefied gas dynamics	
PPT -02-18	Y. Miyagawa (National Institute of Advanced Industrial Science and Technology) M. Tanaka, H. Nakadate (PEGASUS Software Inc.)	
	S. Nakao, S. Miyagawa (National Institute of Advanced Industrial Science and Technology)	7
PST -02-62	Pulsed Power Heating of Spherical Tokamak Plasmas by Merging Process of	
PPT -02-19	Two Counter Helicity Compact Tori in External Toroidal Magnetic field Makoto Katsurai, Mayuko Tsuruta, Yasushi Ono (University of Tokyo)	13
PST -02-63	Scaling of Pulse Power Flash Lamp Systems For Inactivation of Pathogens	
PPT -02-20	in Flow Through Reactor Systems Ganesh Upadhyaya, Randy D. Curry Patrick Hancock, Kenneth F. McDonald Thomas Clevenger, Dan Crosby (University of Missouri-Columbia)	19
PST -02-64	Experimental Studies for High Temperature Non-equilibrium Plasma sustained	
PPT -02-21	by Low-Frequency Discharge at Atmospheric Pressure Satoshi Nakano, Makoto Katsurai (University of Tokyo)	25
PST -02-65	Positive streamer propagation between wire to plane electrode in water	
PPT -02-22	Sunao Katsuki, Takao Namihira, Hidenori Akiyama (Kumamoto University) Karl H. Schoenbach (Old Dominion University)	29
PST -02-66	Relationship between Analysis of High Power Backward Wave Oscillators	
PPT -02-23	and Rayleigh Hypothesis in Optical Gratings Yaduvendra Choyal, Kazuo Minami (Niigata University)	35
PST -02-67	Experiment on Oversized Backward Wave Oscillator Driven by Weakly Relativistic	
PPT -02-24	Electron Beam K. Ogura, Y. Sakurai, R. Yoshida, O. Watanabe H. Yamazaki (Niigata University)	41

PST -02-68	Cherenkov and slow cyclotron instabilities of non-axisymmetric modes	
PPT -02-25	in periodic slow wave structure	
	O. Watanabe, Y. Yamashita, H. Yamazaki, K. Ogura (Niigata University)	45
PST -02-69	Some Possibilities for Single Mode Generation in Oversized Cerenkov Oscillators	
PPT -02-26		
	Mikhail Fuks, Edl Schamiloglu (University of New Mexico)	49
PST -02-70	[欠 番]	
PPT -02-27		
PST -02-71	Induction Voltage Modulator for Acceleration System of Intense Ion Beams	
PPT -02-28		
	K. Horioka, M. Nakajima, M. Watanabe, M. Honda, E. Hotta, M. Shiho (TIT)	
	J. Kishiro, K. Takayama (KEK)	55
PST -02-72	Behaviors of Output Waveforms and Beam Emittance of High-Flux Laser Ion Source	
PPT -02-29		
	M. Nakajima, M. Asahina, K. Horioka	
	M. Yoshida, J. Hasegawa, M. Ogawa (Tokyo Institute of Technology)	61
PST -02-73	Theoretical Consideration on Final Beam Bunching for Heavy Ion Inertial Fusion	
PPT -02-30		
	Takashi Kikuchi	
	Mitsuo Nakajima, Kazuhiko Horioka (Tokyo Institute of Technology)	65
PST -02-74	Materials Applications of Pulsed Ion-Beam-Produced Ablation Plasma	
PPT -02-31		
	K. Yatsui, H. Suematsu, W. Jiang	
	T. Suzuki, S. C. Yang, T. Arikado (Nagaoka University of Technology)	71
PST -02-75	Progress in the Study of Folded Blumlein Transmission Lines	
PPT -02-32	for Compact Pulsed Power Applications	
	Edl Schamiloglu, Christos G. Christodoulou	
	John Gaudet, Miroslav Joler (University of New Mexico)	75
PST -02-76	Reconfigurable Modular Pulse Power Systems for Sourcing Multiple Applications	
PPT -02-33		
	W. C. Nunnally (University of Missouri-Columbia)	
	Jon Mayes, W. C. Carey (Applied Physical Electronics, LC)	79
PST -02-77	Pulsed Arc Electrohydraulic Discharges for Water Purification	
PPT -02-34		
	Kunihiko Hattori, Takeo Saito, Hiroshi Makino	
	Kouji Momose, Akira Ando, Masaaki Inutake (Tohoku University)	85
PST -02-78	Shunting arc generation and deposition of amorphous carbon	
PPT -02-35		
	Ken Yukimura, Motoya Kumagai, Xinxin Ma (Doshisha University)	
	Masao Kumagai (Kanagawa Industrial Technology Research Institute)	
	Hidenori Saito (Kanagawa High-Technology Foundation)	
	Mamoru Kohata (Toshiba Tungaloy)	91

PST -02-79 [次 番]
PPT -02-36

PST -02-80 Commercial Pulsed Power Applications in Germany
PPT -02-37

Markus J. Loeffler (University of Applied Sciences Gelsenkirchen) 95

PST -02-81 Development of Compact, Repetitive Pulsed Power Generators
PPT -02-38

W. Jiang, T. Matsuda, F. Endo, K. Yatsui (Nagaoka University of Technology)
Naohiro Shimizu, Katsuji Iida (NGK Insulators)
Akira Tokuchi (Nichicon Corporation) 101

PST -02-82 Activation of Peta-watt laser system for fast ignition experiment
PPT -02-39

T. Jitsuno, H. Fujita, H. Yoshida, K. Shigemori
K. Tsubakimoto, T. Kawasaki, S. Matsuo, H. Kitamura
R. Kodama, T. Kanabe, Y. Kitagawa, Y. Izawa (Osaka University) 105

PST -02-83 Longitudinally Excited Very Low Pressure F₂ Laser
PPT -02-40

T. Jitsuno (Osaka University)
M. A. M. El-Osealy (Assut University)
K. Nakamura (Kobe Shinwa Woman's University)
T. Goto (Nihon Koshuha Co., Ltd) 111

PST -02-84 [次 番]
PPT -02-41

PST -02-85 Properties of Amorphous Silicon Nitride Films deposited by PE-CVD
PPT -02-42

Masataka Narita, Takuya Yokoyama, Yukimi Ichikawa (Fuji Electric) 115

PST -02-86 PLASMA BASED ION IMPLANTATION(PBII) WITH BIPOLAR PULSES
PPT -02-43

S. Miyagawa, S. Nakao, Y. Miyagawa
(National Institute of Advanced Industrial Science and Technology) 121

PST -02-87 Improvement of discharge characteristics in a large area surface wave plasma processing
PPT -02-44 device for chemical vapor deposition of diamond films
Jaeho Kim, Makoto Katsurai (University of Tokyo) 127

PST -02-88 Surface Treatment of PET Film by the Atmospheric Pressure Corona Torch
PPT -02-45
Seiji Takisawa, Shigeru Ono, Sinriki Teii (Musashi Institutre of Technology) 133

PST -02-89 Non-Thermal Plasma Process Application for Dilute Trichloroethylene Decomposition
PPT -02-46 with Some Catalysts
Tetsuji Oda, Tadashi Takahashi, Kei Yamaji (University of Tokyo) 137

PST -02-90 Characteristics of Nanosized Powders Synthesized by Pulsed Wire Discharge
PPT -02-47
H. Suematsu, Y. Kinemuchi, C-H. Cho
T. Suzuki, W. Jiang, K. Yatsui (Nagaoka University of Technology) 143

PST -02-91	Preparation and Characterization of Cr-N-O Thin Films by Pulsed Laser Deposition	
PPT -02-48		
	Tsuneo Suzuki, Hajime Saito, Makoto Hirai, Hisayuki Suematsu	
	Weihua Jiang, Kiyoshi Yatsui (Nagaoka University of Technology)147	
PST -02-92	Pollution control using pulsed streamer discharges	
PPT -02-49		
	Takao Namihira, Sunao Katsuki, Hidenori Akiyama (Kumamoto University)	
	Reuben Hackam (Windsor University)151	
PST -02-93	Optimum Conditions for De-NOx by Dielectric Barrier Discharge	
PPT -02-50		
	Issei NAGAO, Kiwamu YAMAMOTO, Ken YUKIMURA (Doshisha University)	
	Shinji KAMBARA (Idemitsu Kosan)	
	Toshiro MARUYAMA (Kyoto University)157	
PST -02-94	NOx Removal using Discharge plasma and Electrophoresis	
PPT -02-51		
	Zhenzhou Su, Jun SAWADA, Kazunori TAKASHIMA	
	Shinji KATSURA, Akira MIZUNO (Toyohashi University of Technology)163	
PST -02-95	Application of Plasma Arcjet to Soil Stabilization	
PPT -02-52		
	John W. Walter, James C. Dickens	
	Edgar A. O'Hair, P. W. Jayawickrama, M. Kristiansen (Texas Tech University)167	
PST -02-96	Plasma Structure in Disk MHD Generator using He/Xe Working Plasma	
PPT -02-53		
	Nobuhiro Harada, Toyohisa Tashiro (Nagaoka University of Technology)171	
PST -02-97	Development and Antibacterial effect of UV/Ozone sterilizer	
PPT -02-54		
	Tetsuya Akitsu (Yamanashi University)177	
PST -02-98	Pulsed Laser Processing of Superhard Coatings	
PPT -02-55		
	Ashok Kumar, Arun K. Sikder (University of South Florida)181	