

Sunday, 27 September 2015

17:30 - 19:00	Registration (3F <i>MUSCADET</i>)
19:00 - 20:30	Reception (3F <i>SEMILLON</i>)

Monday, 28 September 2015**Session I, Chair: J. P. Booth**

Time	Presenter	Title	Cat	Page
8:30 - 8:45	K. Sasaki	Welcome		
8:45 - 9:35	S. Okajima	Development and application of high performance FIR laser	AK (IS)	13
9:35 - 10:00	H. Nakano	Cavity ringdown method for negative-hydrogen-ion measurement in ion source for neutral beam injector	T1 (LT)	14

10:00 - 10:30	Coffee
---------------	--------

Session II, Chair: R. B. Miles

Time	Presenter	Title	Cat	Page
10:30 - 11:10	A. A. Ruth	Laser-induced micro-plasmas in air for incoherent broadband cavity-enhanced absorption spectroscopy	G1 (LT)	15
11:10 - 11:35	S. Reuter	LIF spectroscopy on cold plasma jets for plasma medicine	T2 (LT)	16
11:35 - 12:00	O. Guaitella	Absorption spectroscopy in CO ₂ and air plasma with QCL: from gas traces to vibrational excitation measurements	T3 (LT)	17
12:00 - 12:15	K. Takeda	Laser absorption spectroscopy of SiH ₄ /H ₂ plasma for deposition of silicon thin films	C1 (LT)	18
12:15 - 12:30	S. Nishiyama	Electron density measurement of mixture plasmas of argon and molecular gas by saturation spectroscopy	C2 (LT)	19

12:30 - 15:30	Group Photo (3F <i>MUSCADET</i>), Lunch and Free Discussion
---------------	--

Session III, Chair: D. J. Den Hartog

Time	Presenter	Title	Cat	Page
15:30 - 16:10	M. Bassan	Thomson scattering diagnostic systems in ITER	G2 (HT)	20
16:10 - 16:35	P. Bilkova	Scaling Thomson scattering to big machines	T4 (HT)	21
16:35 - 16:50	E. Yatsuka	Development of laser beam injection system for the Edge Thomson Scattering (ETS) in ITER	C3 (HT)	22
16:50 - 17:05	M. Yoshikawa	Radial electron temperature and density measurements by using Thomson scattering system in GAMMA 10/PDX	C4 (HT)	23
17:05 - 17:20	H. Togashi	Thomson scattering measurement for low-density tokamaks in TST-2	C5 (HT)	24

Poster Session 1, Chair: T. Akiyama

17:20 - 18:00	P1.01 - 19	Poster Introduction 1	51-69
---------------	------------	-----------------------	-------

18:00 - 19:30	Dinner
---------------	--------

19:30 - 21:00	P1.01 - 19	Poster Session 1	51-69
---------------	------------	------------------	-------

AK: 45+5 min., SP: 25+5 min., G: 35+5 min., T: 20+5 min., C: 12+3 min.

Tuesday, 29 September 2015**Session IV, Chair: A. A. Ruth**

Time	Presenter	Title	Cat	Page
8:30 - 9:10	T. Dougakiuchi	Recent progress in quantum cascade lasers as a mid-infrared laser source	G3 (IS)	25
9:10 - 9:35	F. Andereg	Waves detection through laser thermal spectroscopy	T5 (LT)	26
9:35 - 10:00	J. Bredin	Picosecond two-photon absorption laser induced fluorescence spectroscopy (TALIF) on atmospheric pressure plasmas	T6 (IS)	27

10:00 - 10:30	Coffee			
---------------	--------	--	--	--

Session V, Chair: K. Tanaka

Time	Presenter	Title	Cat	Page
10:30 - 11:10	H. Q. Liu	Internal magnetic field measurements by laser-based POLarimeter-INTerferometer (POINT) system on EAST	G4 (HT)	28
11:10 - 11:35	Y. Inada	Two-dimensional electron density imaging over extinguishing arc discharge using Shack-Hartmann type laser wavefront sensor	T7 (LT)	29
11:35 - 12:00	D. Kuwahara	Development of local oscillator integrated antenna array for microwave imaging diagnostics	T8 (IS)	30
12:00 - 12:15	Y. Zhu	Front-end optics with large aperture for millimeter imaging diagnostic	C6 (HT)	31
12:15 - 12:30	A. Ejiri	Development of a two channel microwave reflectometer for ICRF wave measurement in LHD	C7 (HT)	32

12:30 - 15:30	Lunch and Free Discussion			
---------------	---------------------------	--	--	--

Session VI, Chair: U. Czarnetzki

Time	Presenter	Title	Cat	Page
15:30 - 16:10	S. Yoshimura	Application of optical vortex beams to laser absorption spectroscopy	G5 (HT)	33
16:10 - 16:35	M. A. Bratescu	Analysis of organic compounds decomposition in solution plasma by coherent anti-Stokes Raman spectroscopy	T9 (LT)	34
16:35 - 16:50	J. Röpcke	Investigating atmospheric pressure plasma jets with infrared lasers	C8 (LT)	35
16:50 - 17:05	R. Engeln	Plasma activated conversion of CO ₂ for solar fuel production studied by rotational Raman and IR absorption spectroscopy	C9 (LT)	36
17:05 - 17:20	A. Yamaguchi	Erosion rate measurement in ion thrusters using cavity ring-down spectroscopy technique	C10 (LT)	37

Poster Session 2, Chair: S. Nishiyama

17:20 - 18:00	P2.01 - 20	Poster Introduction 2	70-89
---------------	------------	-----------------------	-------

18:00 - 19:30	Dinner		
---------------	--------	--	--

19:30 - 21:00	P2.01 - 20	Poster Session 2	70-89
---------------	------------	------------------	-------

AK: 45+5 min., SP: 25+5 min., G: 35+5 min., T: 20+5 min., C: 12+3 min.

Wednesday, 30 September 2015

Session VII, Chair: I. Yamada

Time	Presenter	Title	Cat	Page
8:30 - 9:10	W. C. Young	Thomson Scattering at 250kHz	G6 (HT)	38
9:10 - 9:35	R. Yasuhara	Progress of the multi-pass Thomson scattering system in LHD	T10 (HT)	39
9:35 - 9:50	H. Mizoguchi	Update of one hundred watt HVM LPP-EUV source	C11 (IS)	40
9:50 - 10:05	J. Kim	Characterization of laser plasma from solid target for laser wakefield acceleration	C12 (HT)	41

10:05 - 10:35	Coffee
---------------	--------

Session VIII, Chairs: K. Tomita and K. Tanaka

Time	Presenter	Title	Cat	Page
10:35 - 11:15	R. Miles	The use of radar for the characterization of laser-generated plasmas and for stand-off trace gas detection	G7 (LT)	42
11:15 - 11:45	K. Muraoka	Short- and long-range energy strategies for Japan and the world after the Fukushima nuclear accident	SP	43

11:45 - 12:15	Break
---------------	-------

12:15 - 18:30	Excursion with lunch box (1F Main Entrance)
---------------	---

18:30 - 19:00	Break
---------------	-------

19:00 - 21:00	Banquet (3F SEMILLON)
---------------	-----------------------

AK: 45+5 min., SP: 25+5 min., G: 35+5 min., T: 20+5 min., C: 12+3 min.

Thursday, 1 October 2015**Session IX, Chair: F. Skiff**

Time	Presenter	Title	Cat	Page
8:30 - 9:10	K. Tomita	Collective Thomson scattering diagnostics of laser-produced plasmas with moderate temperature	G8 (LT)	44
9:10 - 9:35	T. Ito	Sum-frequency generation spectroscopy of water surface influenced by plasma	T11 (LT)	45
9:35 - 9:50	J-P. Booth	Gas temperature measurements in plasmas by high-resolution TALIF	C13 (LT)	46
9:50 - 10:05	U. Czarnetzki	Time resolved evolution of the EVDF in a ns-pulsed atmospheric pressure plasma jet in helium	C14 (LT)	47

10:05 - 10:35	Coffee			
---------------	--------	--	--	--

Session X, Chair: L. Giudicotti

Time	Presenter	Title	Cat	Page
10:35 - 11:15	G. Zhuang	The three-wave laser polarimeter-interferometer on J-TEXT tokamak	G9 (HT)	48
11:15 - 11:30	Y. Yamaguchi	High power 303 GHz gyrotron for CTS in LHD	C15 (HT)	49
11:30 - 11:45	D. W. Kim	Investigation of hybrid hairpin and cutoff probe	C16 (IS)	50
11:45 - 11:55	K. Sasaki	Closing		

11:55 - 12:10	Break			
---------------	-------	--	--	--

<i>Departure (1F Main Entrance)</i>				
12:10	Bus for New Chitose Airport			
12:10	Bus for Sapporo Station			

AK: 45+5 min., SP: 25+5 min., G: 35+5 min., T: 20+5 min., C: 12+3 min.