ICDES2010 Time Schedule (Morito Memorial Hall, Tokyo University of Science)

	2010 (Wed.)	Over the set of the se			
Time 10:00-	Smoking is prohibited throughout the compound. Reception (Hall of 1st Floor)				
Hall of 1st Floor	Conference Room 2 (2nd Floor): Cloak and Secretariat Conference Room 3 (2nd Floor) & Lounge (1st Floor): Break and Communication Room				
13:00-13:30 Forum 1	Opening ceremony (at Forum 1, Nov. 17, 2010) Address from Conference Chairman Masafumi Katsuta (President, JSDE)	(Host: Tohru Kanada)			
	Address from Executive Committee Hirokazu Shimoda				
	Address from Site Manager Shigeka Yoshimoto				
	Announcement Toshio Otaka				
13:45-14:45 Forum 1	Special speech (at First Forum, Nov. 17, 2010) <u>[1-01]</u> Practice of creative design Yotaro Hatamura	(Host: Tohru Kanada)			
Time	Forum 1 (Nov. 17, 2010)	Forum 2 (Nov. 17, 2010)	Conference Room 1 (Nov. 17, 2010)		
15:00-15:20	Design methodology 1 (Chair: C. L. Dym & E. Dewberry) Keynote speech 1-02 Challenges in engineering design (Approaches for variant design and cofiguration, considering module design and complexity)	Mechanism 1 (Chair: T. Kanada & M. Seki) 2–01 Experimental study on preventing web defects under transport with concave roller			
	J. Feldhusen, K.–H. Grote and G. Pahl	S. Hikita and H. Hashimoto			
15:20-15:40	Keynote speech 1-03 Design interventions, prediction and science in the sustainable transition of large, complex systems E. Dewberry and J. Johnson	2–02 Designing method of micro-grooved roller used for plastic-film transportation H. Hashimoto and S. Hikita			
15:40-16:00					
	1–04 Development strategy consideration in environmentally friendly product design	2–03 Development of highly effective pedaling mechanism for bicycle using link mechanism			
	K. Oizumi and N. Tokuoka	K. Aizawa, T. Nagamine, M. Suzuki, K. Kumagai and T. Oizumi			
16:00-16:20	Break	Break	Break		
16:20-16:40	Design methodology 2 (Chair: K. – H. Grote & A. Piros) Keynote speech	Mechanism 2 (Chair: H. Hashimoto & M. Komori)			
	1-05 Reflecting engineering values through design for sustainablity	2-04 Fundamental characteristics of reverse-type differential rotary to linear conversion mechanism			
	C. L. Dym	M. Seki, I. Shimizu and M. Fujii			
16:40-17:00	Keynote speech <u>1-06</u> Modelling and managing reliability growth in engineering design process	2–05 A study on noncircular gears with non-uniform teeth			
	L. Walls and J. Quigley	K. Kumagai and T. Oizumi			
17:00-17:20	1-07 Fuzzy evaluation in configurable product design	2–06 Effect of tooth meshing stiffness and tooth flank form on the motion of gears			
	A. Piros	E. Z. Mohamad, M. Komori, H. Murakami and A. Kubo			

Advance notice for Banquett (Nov. 18, 2010) 18:00-20:00 Banquette at "Moon Light" (43rd Floor), Keio Plaza Hotel (Shinjuku, Tokyo)

- Host : Tohru Kanada Opening address by Masafumi Katsuta (Conference Chairman, President, JSDE) Awarding ceremony (Coordinated by H. Aoyama, Chair of Awarding Committee) Toast Communing together, wininng and dining Closing address by H. Shimoda (Chair of Executive Committee) 18:00
- 18:10

18:30

20:00

ICDES2010 Time Schedule (Morito Memorial Hall, Tokyo University of Science)

Nov. 18, 2010 (Thur.)					
Time 9:10-9:30	Forum 1 (Nov. 18, 2010) Design methodology 3 (Chair: L. Walls & K. Oizumi)	Forum 2 (Nov. 18, 2010)	Conference Room 1 (Nov. 18, 2010)		
0.10 0.00	Ke <u>ynote</u> speech				
	<u>1–08</u> Design innovation by engineering and science				
9:30-9:50	T. Murakami	Tribology 1 (Chair: K. Sonoda & M. A. Kumar)	Design and development 1 (Chair: H. Aoyama & K. Mitsuhashi)		
	Ke <u>vnote</u> speech				
	<u>1–09</u> Multispace design model as framework for design	<u>2–07</u> Influence of substrate roughness and thickness of DLC	<u>3-01</u> Software FMEA method for GAMP5 based computerrized		
	science toward integration of design	coating on tribological behaviour in vacuum under sliding contact	system validation		
	Y. Matsuoka	M. A. Kumar, M. Fujii, K. Murata	M. Takahashi and T. Tanzawa		
9:50-10:10		and T. Fukuda			
9:50-10:10	1-10	2-08	3-02		
	Design for mechanical adaptability	Experimental study on characteristics of full-flat thrust bearing with partial water~repellent surface	GAMP based retrospective computerized system validation for PLC		
	M. Kannan, S. Damash babu				
	M. Kannan, S. Ramesh babu, C. Muthazhagan and V. Jeyaprakash	A. Takeuchi	M. Takahashi and T. Tanzawa		
10:10-10:30	1-11	2-09	3-03		
	Description of product design in terms of	An observation of oil film thickness of piston pin in real	Influence of feature on cylindrical parts in micro assembly		
	stakeholder mind	engine with ultrasonic technique	by laser trapping		
	K. Oizumi and K. Aoyama	A. Takeuchi	K. Mitsuhashi and H. Takahashi		
10.00 10.50					
10:30-10:50		Break			
10:50-11:10	Design education 1 (Chair: S. Hosnedl & S. Kise) Ke <u>ynote</u> speech	Tribology 2 (Chair: A. Takeuchi & H. Yanada)	Design and development 2 (Chair: K. Watanuki & L. Hou)		
	1–12 Engineering design as a form of politics	2-10 Modeling of dynamic friction behaviors of hydraulic	3-04 A new hyperthermia system for deep tumors in the		
	Engineering design as a form of pollulos	cylinders	abdominal region without contact		
	P. Little	X. B. Tran, N. Hafizah and H. Yanada	S. Ono, M. Suzuki, E. Morita,		
11:10-11:30			Y. Shindo, M. Kubo and K. Kato		
11.10-11.30	1-13	2-11	3-05		
	Examination of such basic contents that carries out the three dimensions mechanical design	Friction and power loss at contact surface of rollers under EHL condition	Development of a support system for effective hyperthermia treatments with a needle applicator in virtual		
	S. Kise, S. Sekiguchi, K. Okusaka	K. Sonoda, A. Ishibashi	N. Mimoto, K. Nakane, Y. Shindo,		
	and S. Hirano	and Y. Sunagawa	M. Kubo, K. Tsuchiya and K. Kato		
11:30-11:50	1-14	2-12	3-06		
	Consideration of response to new direction of	Experimental study on dynamic characteristics of fluid	Development of surface refining system using highlight lines		
	design in design education	film bearing for HDD spindle motor			
	R. Iwata and S. Hirano	M. Ochiai, Y. Sunami and H. Hashimoto	H. Aoyama and Y. Komatsu		
11:50-13:30	Break	Break	Break		
11:50-13:30 13:30-13:50	Break Design education 2 (Chair: S. Hirano & T. Kanada)		Break Design and development 3 (Chair: T. Otaka & T. Saito)		
	Design education 2 (Chair: S. Hirano & T. Kanada)	Break Tribology 3 (Chair: S. Yoshimoto & T. Kazama)	Design and development 3 (Chair: T. Otaka & T. Saito)		
	Design education 2 (Chair: S. Hirano & T. Kanada) 1-15 Effective engineering design research, education	Break Tribology 3 (Chair: S. Yoshimoto & T. Kazama) 2-13 Measurements of film thickness and pressure distribution	Design and development 3 (Chair: T. Otaka & T. Saito) <u>3-07</u> Construction and testing of a gasoline engine system with		
	Design education 2 (Chair: S. Hirano & T. Kanada)	Break Tribology 3 (Chair: S. Yoshimoto & T. Kazama) 2-13	Design and development 3 (Chair: T. Otaka & T. Saito)		
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ICDES2010 Time Schedule (Morito Memorial Hall, Tokyo University of Science)

me	2010 (Fri.) Forum 1 (Nov. 19, 2010)	Forum 2 (Nov. 19, 2010)	Conference Room 1 (Nov. 19, 2010)
0-9:30	Thermal and fluid eng. 1 (Chair: M. Katsuta & K. Nishihara)		Robotics 1 (Chair: Y. Yamazaki & H. Niimi)
	1-21		3-10
	Vehicle fuel production by wood biomass gasification		Research of autonomous mobile robot in Tsukuba
	utilizing dual fixed bed gasifier		Challenge 2009 (Examination of autonomy running
			with GPS and IMU)
	K. Fujimoto, Y. Takatani, Y. Sakai, T. Koya,		K. Honda, A. Matsumoto, K. Kis
	T. Saika and H. Nagamoto		and Y. Yamaza
30-9:50		Vibration and dynamics 1 (Chair: Y. Sekiguchi & X. Liu)	and T. Tanaza
50 5.50		VIDIACION and dynamics I (Onair. 1. Sekigueni & A. Eld)	
	1-22	2-19	3-11
	Evaluation of design of two radiators used in automotive	Design of a novel linkage mechanism for manual pulse	Relationship between body design and temporal
	engine cooling system	thresher	resolution of a visual sensor
	engine cooling system	unesner	resolution of a visual sensol
	M. A. Ardekani, A. Anvar and Y. Yassi	B. K. Saha	M. Hanei, T. Sekino and K. Kikuo
50-10:10			
10.10	1-23	2-20	3-12
	Entry and dispersion of a suspension droplet into water	Vibration and noise analysis of elliptical gears	Fast stair climbing and descending using vibration b
	Entry and dispersion of a suspension droplet into water	vibration and noise analysis of emptical gears	mechanical design properties of a robot
			mechanical design properties of a robot
		V	
	M. Nomura, R. Tsujino, Y. Ueda	X. Liu, K. Nagamura and K. Ikejo	M. Hirano, S.Kobayashi,, M. End
	and M. Iguchi		K. Negishi, Y. Chiba and K. Kikuc
):10-10:30			
	1-24	2-21	3-13
	Model study on transition to turbulence in blood flow in	Sound transmission of polycarbonate window pane with	Design and development of small size humanoid
	arteries	damped sandwich structure for automobile	robot
	K. Nishihara, K. Sumida, Y. Ueda,	S. Min, K. Nagamura, N. Nakagawa	H. Niimi, M. Koike, S. Takeuc
	Y. Sasaki, Y. Nakahata and M. Iguchi	and M. Okamura	and N. Douha
00 10 50			D 1
:30-10:50	Break	Break	Break
):50-11:10	Thermal and fluid and 2 (Chair: P. Tauiino & T. Kohavashi)	Vibration and dynamics 2 (Chair: K. Nagamura & S. Ogawa)	Pohotice 2 (Chair K. Kikuchi & N. Iwatauki)
:50-11:10	inermal and fuld eng. 2 (Chair: R. Tsujino & T. Kobayashi)	vibration and dynamics 2 (Chair: K. Nagamura & S. Ogawa)	RODOLICS 2 (Ghair: K. Kikuchi & N. Iwatsuki)
	1-25	2-22	3-14
	The proposal of thermal design method of stand-off	Design of perforated open end for the reduction of	Development of rescue robot with sub crawlers an
	thermal protection system with consideration for	resonance sound in acoustic tube	examination of performance by hardware design
	uncertainties		
	M. Katsuta, T. Ogasawara and T. Ishii	S. Tejima and Y. Sekiguchi	A. Matsumoto, S. Nakagom
			N. Furuya and Y. Yamaza
:10-11:30			
	1-26	2-23	3-15
	A study on optimization of thermal stress for a large	The method of determining the vehicle framework in	Simulation for modeling walking of four-legged robo
	area electrode deposition equipment	safety development using a spring-mass model	"AIBO" in consideration of contact with field
			surface
	T. Kobayashi, T. Fukui, R. Hashimoto	S. Ogawa, H. Takeshita	H. Sekiguchi, Y. Uchi
	and H. Kanematsu	and I. Kamimoto	and T. Kana
:30-11:50			
	1-27	2-24	3-16
	Thermal deformation prediction in machine tool model by	Riding comfort reproduction of railway vehicle by	Motion control of a planar robot moving by pressin
	using transfer functions	universal shaking table	arms against bars
		-	-
	F. Suzumura, H. Makihara	S. Fujiwara, T. Saito, Y. Miyajima	N. Iwatsuki and D. Ikee
	and G. Katayama	and H. Shimosaka	
:50-12:10			
	1-28	2-25	3-17
	Effect of hydrogen addition on ethanol spray combustion	Strength and noise of injection-molded-plastic-gear	Space securing in minimally invasive surgery
	in a constant vessel	filled with rice-hull-silica-carbon (Effect of the median	(Development of training simulator and force
		grain diameter and fill ration)	feedback master manipulator)
		<u> </u>	
	S.Hoshino and H. Saitoh	T. Itagaki, H. Takahashi and H. Iizuka	H. Takanobu, Y. Akabane, K. Suzul
			H. Miura, H. Kawamitsu, K. Izaw
			J. Okamoto, M. G. Fujie and H. Ise
	Closing ceremony	(Host: Tohru Kanada)	
2:15-12:20			
::15-12:20	Address from Executive Committee		
::15-12:20	Address from Executive Committee Nobuyuki Iwatsuki		
	Nobuyuki Iwatsuki		
	Nobuyuki Iwatsuki Optional bus tour (Application from web site)	ains from the site) -> Trade Center Building -> Sumida-gawa	