Principal Res	searcher Aki	ra Yasukouchi			Number of	6
					Reserchers	
Research Inst	itution Profe	essor, Design, Ky	ushu Institute of	Design	Location of	Fukuoka
· Department · Title					Institution	City
Title of	Physiological polymorphism and its adaptability to lighting and thermal environments.					
Project						
Abstract of	It has not been known how large within- and between- individual variations in					
Research	physiological responses are to the physical and cultural environments found in a highly					
Project	technological society. How physiological diversity affects human adaptability to a model					
	environment has become an important issue. There have been no systematic studies which attempt to examine whether the physiological polymorphism formed by the high-tech modern society is appropriate from the viewpoint of the intrinsic physical resources of human beings. The aim of our study is to investigate the physiological diversity, or the characteristics of the within- and between- individual variation of physiological traits. We					
	also examine how physiological adjustment occurs throughout the entire body, and reveal the					
	adaptability of physiological diversity to the modern society, with special emphasis on					
	lighting and thermal factors. First, circadian and seasonal differences as within-individual					
	variations are examined with regards to physiological responses to natural and artificial					
	lighting and to thermal environments. Next, between-individual and -population variations					
	are examined as to; for example, differences in the climatic conditions found in people's					
	birthplaces and in their level of physical activity and frequency use of air conditioners.					
References	Ishibashi,K. and Yasukouchi,A.: Analysis of heart rate variability during mental task with					
	reference to ambient temperature. Appl.Human Sci.18(6):219-223, 1999.					
	Yasukouchi, A., Yasukouchi, Y., and Ishibashi, K.: Effects of color temperature of fluorescent					
	lamps on body temperature regulation in a moderately cold environment.					
	J.Physiol.Anthropol., 19(3):125-134,2000.					
Term of Project	Fiscal years 2003-2007 . (5years)					
Budget	FY2003	FY2004	FY2005	FY2006	FY2007	TOTAL
Allocation	29,600	15,200	13,500	12,	700 11,30	0 82,300
(in thousand of yen)						
Homepage Address None						