Principal Researcher		Kenji M	Morinaga (				Numb	er of Res	3
						earc	hers		
Research Institution		Professor	Professor, Department of Engineering Sciences for			ciences for	Locat	tion of Ins	Kasuga-shi,
· Department	·Title	Electron	ectronics and Materials, Kyushu University			ity	titut	ion	Fukuoka
Title of Pr	Research and Development of New Photonic Glass Materials								
oject									
Abstract of	The development of new photonic devices is indispensable in order to progress the								
Research Pro	information technology. On the other hand, it is essential problem of how to utilize the								
ject	slags from the environmental protection point of view. The purpose of this work is to								
	research and develop new photonic materials, such as optical fiber amplifiers and ultrafast								
	optical switching devices for telecommunications, by utilizing slags and glasses.								
References	• S. Fujino, and K. Morinaga, "Material Dispersion and Its Compositional Parameter of								
	Oxide Glasses, " J-Non-Cryst. Solids, 222,316-320, (1997)								
	• T. Murata, Y. Moriyama, and K. Morinaga, "Relationship between Local Structure and								
	Spontaneous Emission Probability of Er3+ in Silicate, Borate, and Phosphate Glasses, "								
	Science and Technology of Advanced Materials, 1(3), 139-145, (2000).								
				_					
Term of Project	Fiscal Years 2002-2006 ( 5 years )								
Budget Alloc	FY20	002	FY2003	FY2004	4	FY2005	5	FY2006	TOTAL
ation									
(in thousand of yen)			33,300	·		8	7,000 80,200		
Homepage Address				http://www.asem.kyushu-u.ac.jp/of/of02/					