



**INTERNATIONAL  
SYMPOSIUM ON  
OPTICAL  
MEMORY 1989**

**SEPTEMBER 26 ~ 28, 1989**

**KOBE JAPAN**

**TECHNICAL  
DIGEST**

## Technical Program

SEPT. 26, 1989 (Tuesday)

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9:30 AM—10:00 AM		<b>OPENING REMARKS</b>	00
		Y. Sakurai ( <i>Setsunan Univ., Japan</i> ), <i>Organizing Committee, Chairperson</i>	
		R. Ito ( <i>Univ. of Tokyo, Japan</i> ) <i>Program Committee, Chairperson</i>	
		Presider: Y. Tsunoda ( <i>Hitachi, Japan</i> )	
10:00 AM—11:30 AM	26A	<b>Magneto-Optical Media I</b>	
		Presider: N. Imamura ( <i>Tosoh, Japan</i> )	
	(Invited) 26A-1	<b>Direct Overwrite in Magneto-Optical Recording Technology</b>	3
		M. H. Kryder ( <i>Carnegie Mellon Univ., U.S.A.</i> )	
	(Invited) 26A-2	<b>Magneto-Optical Effects in Compositionally Modulated Co/Pd Thin Films</b>	5
		S.-C. Shin, A. C. Palumbo ( <i>Eastman Kodak, U.S.A.</i> )	
	(Invited) 26A-3	<b>Garnet Films for Magneto-Optical Recording</b>	7
		A. Itoh ( <i>Nihon Univ., Japan</i> )	
11:30 AM— 1:00 PM		<b>Lunch</b>	
1:00 PM— 2:40 PM	26B	<b>Magneto-Optical Media II</b>	
		Presider: M. H. Kryder ( <i>Carnegie Mellon Univ., U.S.A.</i> )	
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		M. Mansuripur, R. Giles* ( <i>Univ. of Arizona and *Boston Univ., U.S.A.</i> )	
	26B-2	<b>Thermomagnetically Induced Nucleation and Growth of Domains in GdTbFeCo</b>	13
		C.-J. Lin ( <i>IBM Research Div., U.S.A.</i> )	
	26B-3	<b>The Interface Wall Structure of the Magnetic Triple Layer Film for Overwriting by Light Intensity Modulation</b>	15
		M. Kaneko, K. Aratani, Y. Mutoh, K. Watanabe, H. Makino ( <i>Sony, Japan</i> )	
	26B-4	<b>A New Method of Direct Overwrite on a TbFeCo Film with Fixed Bias Magnetic Field</b>	17
		Y. Suzuki, N. Ohta ( <i>Hitachi, Japan</i> )	
	26B-5	<b>Magneto-optical Recording in Co/Pt Multilayers</b>	19
		F. J. A. M. Greidanus, W. B. Zeper, B. A. J. Jacobs, J. H. M. Spruit, P. F. Carcia* ( <i>Philips Research Labs., The Netherlands and *E.I. Du Pont, U.S.A.</i> )	
2:40 PM— 3:10 PM		<b>Coffee Break</b>	

<b>3:10 PM— 4:50 PM</b>	<b>26C</b>	<b>System</b>	
		Presider: G. R. Knight ( <i>Maxoptix, U.S.A.</i> )	
	<b>26C-1</b>	<b>High Speed Accessing by Direct Accessing</b>	<b>23</b>
		K. Koumura, F. Takizawa, T. Tsujisawa, H. Inada ( <i>NEC, Japan</i> )	
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		S. Niizawa, H. Furuhata, M. Motohashi, R. Naito ( <i>Pioneer, Japan</i> )	
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		Y. Sasano, T. Saitou*, F. Tanaka ( <i>KDD and *KDD Tech., Japan</i> )	
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		Presider: F. Tanaka ( <i>KDD, Japan</i> )	
	<b>(Invited) 26D-1</b>	<b>Interchangeability Test of Optical Disk Cartridges</b>	<b>35</b>
		K. Ohishi, F. Yamada* ( <i>Nihon Unisys and *IBM Japan, Japan</i> )	
	<b>26D-2</b>	<b>Reliability Test of Magneto-Optical Disks</b>	<b>37</b>
		H. Makino ( <i>Sony, Japan</i> )	
<b>7:00 PM— 9:30 PM</b>		<b>Reception</b> (Room Owada, Portopia Hotel)	

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**SEPT. 27, 1989 (Wednesday)**

<b>8:40 AM—10:00 AM</b>	<b>27A</b>	<b>Basic Theory</b>	
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		J. Braat ( <i>Philips Research Labs., The Netherlands</i> )	
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10:20 AM—12:00 PM	27B	<b>Phase Change Media I</b> Presider: M. Okuda ( <i>Univ. of Osaka Prefecture, Japan</i> )	
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(Coffee Break)

3:40 PM — 5:10 PM **Poster Presentation**

7:00 PM — 9:00 PM **27E Rump Session—System and Application**

Presiders: R. Bartolini (*David Sarnoff Res. Ctr., U.S.A.*),  
K. Ogawa (*Fujitsu Labs., Japan*)

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T. Igarashi, K. Kimura (*Sony, Japan*)
- (Invited) 27E-2 **Applications of Rewritable Optical Disk Drives** 111  
G. R. Knight (*Maxoptix, U.S.A.*)
- (Invited) 27E-3 **Applications of High Performance Optical Disk Mass Storage Systems in the Aerospace Environment**  
S. M. Ravner (*GE Aerospace, U.S.A.*)113

**SEPT. 28, 1989 (Thursday)**

8:40 AM—10:10 AM **28A Future Technology**

Presider: U. Itoh (*Eastman Kodak (Japan), Japan*)

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		M. Date, T. Furukawa, T. Yamaguchi*, K. Teramura*, A. Kojima*, I. Shibata* ( <i>Inst. of Phys. and Chem. Res. and *Ricoh, Japan</i> )	
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<b>12:00 PM— 1:20 PM</b>		<b>Lunch</b>	
<b>1:20 PM— 2:50 PM</b>		<b>Poster Presentation</b>	
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		Presider: D. Chen ( <i>Chen and Associates, U.S.A.</i> )	
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		Presider: M. Ojima ( <i>Hitachi, Japan</i> )	
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<b>5:30 PM—</b>		<b>CLOSING ADDRESS</b>	
		Y. Mitsuhashi ( <i>Electrotechnical Lab., Japan</i> ) <i>Steering Committee, Chairperson</i>	