The 5th ASIST Program Committee

ASIST-5 Program

Start	End	Paper title	Main author	Affiliation
Tuesday, November 14, 2000				
Opening Address (9:00-9:20)				
Media 1				
9:20	9:50	(Invited)	Dr. Ouchi	AIT (Akita Research Institute of Advanced Technology)
9:50	10:10	CoCrPt-X (X=C, SiO2) granular thin film media for high areal density recording	Jian Ping Wang	Data Storage Institute
10:10	10:30	Effect Of Nonmagnetic Underlayer On Structural And Magnetic Properties Of CoCr-Alloy Thin Film Media	Masaaki Futamoto	Hitachi Ltd.
		Tea Break		
Media 2				
10:45	11:05	The Preparation and Magnetic Properties of Strontium Ferrite Thin Film for High Density Recording	Dongping Wua	Lanzhou University
11:05	11:25	Preparation of ferrite thin film media by ECR sputtering	Setsuo Yamamoto	Yamaguchi University
11:25	11:45	Fabrication and Recording Characteristics of Sputter-deposited Ferrite Thin Film Disks	Shigeki Nakagawa	Tokyo Institute of Technology
11:45	12:05	Dynamic coercivity measurements on magnetic thin film media	S.N. Piramanayagam	Data Storage Institute
		Lunch		
Media 3				
13:30	13:50	Pulsed Filtered Vacuum Arc Deposition of ta-C Films	W.F. Lau	The Chinese University of Hong Kong
13:50	14:10	Properties of Magnetic Metal-Carbon Nanocomposite Films by Pulsed Filtered Vacuum Arc Deposition	M.F. Chiah	The Chinese University of Hong Kong
14:10	14:30	Effects of CrAl Underlayer and Intermediate Layer on Magnetic and Structural Properties of Thin Film Media	Siew It Pang	Data Storage Institute
14:30	14:50	Micro- And Nano-Scale Measurement In Data Storage Industry: A Challenge Task For Surface Analysis	Zhi-Cheng Jiang	SAE Magnetics (H.K.)
		Tea Break		
Media 4				
15:05	15:25	Thermal Stability for Media with Strong Inter-particle Interaction	Toshiyuki Suzuki	Kyushu Institute of Design
15:25	15:45	A Study on VMn underlayer in a CoCrPt Longitudinal Media	S. C. Oh	KAIST
15:45	16:05	Magnetic Properties of Co Nanowires Arrays as Deposited and Annealed in Alumina Template and Micromagnetic Computer Simulation	Hu-Lin Li	Lanzhou University
16:05	16:25	Patterned ultra-high-density Magnetic Storage Medium	Yang Shaoguang	Physics Department of Nanjing University
16:25	16:45	Ultra thin magnetic films and their applications in information storage technology	Dr. Xiaofeng Jin	Fudan University
16:45	17:05	The Reversal Mechanism and Coercivity of Pt3Co Alloy Film	Y. J. Tang	Hong Kong University of Science and Technology
Wednesday, November 15, 2000				
Plenary Talk				
9:00	9:30	(Invited)	Dr. Mee	
Ultra High Density Recording 1				
9:30	9:50	Recording properties of perpendicular media and high Bs ring head for high density recording	Kyoung Mi Lee	Nano System Lab., SAIT
9:50	10:10	A Study On The Modeling Of Readback Pulse Shape Of GMR Head	Weichun Ye	Data Storage Institute
10:10	10:30	Analytical expression for shielded MR head response	Hiroaki Muraoka	Tohoku University
		Tea Break		
Ultra High Density Recording 2				
10:45	11:05	Nonlinear Performance Study Of Dual FDTS/DF Detector	Ming Jin	Data Storage Institute
11:05	11:25	Electron Transport in Metal-Amorphous Silicon-Metal Memory Devices	J. Hu	Edinburgh University
Recording System 1				
11:25	11:45	Enhancement of the Head/Disk Interface Durability with Lubricant Additives	D.J. Perettie	Admat International
11:45	12:05	TOF-SIMS Analysis: Application To Ultra-Thin AWA Film On Magnetic Head	Zhi-Cheng Jiang	SAE Magnetics (H.K.) Ltd.,
12:05	12:25	A Method to Reduce Slider Excitation from Laser Produced Bumps	Sam Shueh	Kaifa Technology (H.K.)
		Lunch		
13:30	13:50	Tribomagnetics for Nanometer Spaced Head-Disk Systems	Bo Liu	Data Storage Institute
13:50	14:10	Wide Range Servo System Surpassing Resonance Mode for Magnetic Head Actuator --Importance of In-Phase Property in Optimal Servo System Design--	Koji Saito	AIT (Akita Research Institute of Advanced Technology)
14:10	14:30	Development of Accelerated CSS Testing Methods Using Acoustic Emission	Sung-Chang Lee	Nano System Lab., SAIT,

14:30	14:50	Robust Product Design for Unbalanced-Magnetic-Pull Optimization of High Performance BLDC Spindle Motors Using Taguchi Method	X. K. Gao	Data Storage Institute
Tea Break				
Poster (2-minute speech and poster presentation)				
15:00	17:30	The Influence of Sputtering Condition on the Soft Magnetic Properties of Fe-Ta-N Films	Ma Bin	Shanghai Institute of Metallurgy, Chinese Academy of Sciences
		Study on the Soft Magnetic Thin Films of FeAlN	Daishun Zheng	Lanzhou University
		Preparation, characterization and study of CoCrPt/Al-0/NiFe magnetic tunnel junctions	S. K. Wong	Hong Kong University of Science and Technology
		Natural Oxidation Tunnel Junction for Read Heads	Wanjun Ku	INESC, Rua Alves Redol 9-1, 1000 Lisbon, Portugal
		A study on the oxidation kinetics of ultrathin cobalt films	Won-Cheol Jeong	Seoul National University Centers for Advanced Materials Res.
		Fabrication and Characterization of Heteroepitaxial Multilayers of La-Ca-Mn-O/Y-Ba-Cu-O	Weihua Tang	The University of Hong Kong
		High Quality La-Ca-Mn-O Thin Films on STO (100) Substrates Prepared by Rf-sputtering	Weihua Tang	The University of Hong Kong
		Control of phase homogeneity of ZnMn-Firrite head materials using high temperature static magnetic measurements	A.B. Pakhomov	Hong Kong University of Science and Technology
		Preparation and Magnetic Reseach of Co-Ni Alloy Nanowires	Hu-Lin Li	Lanzhou University
		Micromagnetic Simulation of Nano-scale Co Wire	Hu-Lin Li	Lanzhou University
		Magnetization Processes In Ferromagnetic Cubes From Initial Saturation States	Mai Lu	Lanzhou University
		Magnetic properties of M type ferrite thin film recording media	Xiaoxi Liu	Lanzhou University
		Study on magnetization reversal of Ba ferrite particulate media for magnetic recording	Xiaohong Li	Lanzhou University
		Computer simulation of hybrid medium for perpendicular magnetic recording	Kazuetsu Yoshida	Kogakuin University
		Highly Oriented Longitudinal Media for Ultra-High Density Magnetic Recording	Jian Ping Wang	Data Storage Institute
		Imaging GMR Sensors with Magnetic Force Microscopy Enhanced by Surface Ion Milling	Silas T.F. Hung	The Hong Kong University of Science & Technology
		Study On Dip-Coated Ultra-Thin Low Surface Energy Films By Spectroscopic Phase Modulated Ellipsometer	Y.W.Wong	The Hong Kong Polytechnic University
		Dependence of Domains structure, magnetic and magneto-optical properties of Ni intercalated Pt/Co multilayers	H. Wang	Chinese Academy of Sciences
		Numerical Analysis of Light-beam Diffraction from Magneto-Optical Disk Medium by FDTD Method	Toshitaka Kojima	Kansai University
		Electrochemical Deposition of CdSe Nanowire Arrays UsingAnodic Aluminum Oxide Template	Hu-Lin Li	Lanzhou University
		Skew angle effects on disk medium noise at ultrahigh recording densities	Dan Wei	Tsinghua University
		Evaluation of Pivot Bearing Friction Torque Under Micro Motion in a Hard Disk Drive	Xiong Liu	Seagate Technology International
		A novel design of tuned damping device in the Head Actuator Assembly	L.M. Xu	Nanyang Technological University
		3D MR head sensitivity function using superposition of Lindholm head fields	Dr. K. J. Lee	Nano System Lab., SAIT
		Architecture for Real-time large volume storage system	Simon Chong-Wee See	Asia Pacific Technology CentreSGI,
		The Dynamic Range Analysis and Repeatable Runout Canceling of Hard Disk Drive	Sun Xiaobing	Sony Electronics (Singapore) Pte. Ltd.
6:00pm		**Banquet(by coach from Shaw Collage to restaurant)**		
Thursday, November 16, 2000				
Head 2				
9:00	9:20	Asymmetrical dependence of exchange coupling in synthetic ferrimagnetic FeMn/Co/Ru/Co on the ferromagnetic layer thickness	H.Y. Li	Fudan University
9:20	9:40	Study on Magnetic Tunnel Junctions	An Hu	Nanjing University
9:40	10:00	Magnetoresistance of ferromagnetic tunnel junctions with Al2O3 formed by Plasma-Assisted Atomic Layer Controlled Deposition	Chang-Wook Jeong	Seoul National University Centers for Advanced Materials Res.
10:00	10:20	Enhancement of tunneling magnetoresistance by Co clusters inCo/Al-O/NiFe junctions	C. H. Ho	National Taiwan University
Tea Break				
Head 2				
10:35	10:55	The uniaxial magnetization of epitaxial permalloy (001) films on Cu/Si(001)	C.K. Lo	Industrial Technology Research Institute
11:15	11:35	Electron Gun Induced ESD on GMR Recording Heads	Samuel B. Shueh	Kaifa Technology (HK)
Closing Remarks(11:35-11:45)				
Company visiting Tour (Shenzhen Science Park)				