

Thomas M. Coughlin, BIBLIOGRAPHY (8/13/2010):

2010 Hard Disk Drive Capital Equipment and Technology Report, T. Coughlin and E. Grochowski, Coughlin Associates, 2010.

Virtualization of Consumer Storage, T.M. Coughlin, Transactions of the 2010 IEEE International Symposium on Consumer Electronics, June 2010.

Reliability and Recovery, How Can We Make Better Storage Devices, T. Coughlin, Presentation at the 2010 Asilomar Microcomputer Conference.

2010 Digital Storage for Media and Entertainment Report, T. Coughlin, Coughlin Associates, 2010.

A Novel Taxonomy for Consumer Metadata, T. M. Coughlin and S. L. Linfoot, presented at the 2010 IEEE International Conference on Consumer Electronics and submitted to the IEEE Transactions on Consumer Electronics, Jan. 2010.

Digital Archiving in the Entertainment and Professional Media Market, The Economics of Information, Communication and Entertainment, Volume 1, Television Goes Digital, Springer, New York, 2009.

Data Storage for Professional Media and Entertainment, T. Coughlin, SMPTE PDA Now On-Line Presentation, Nov. 2009.

Disposal of Disk and Tape Data by Secure Sanitization, G. Hughes, T. Coughlin and D. Commins; IEEE Security and Privacy, July/August 2009.

Survey of Storage in Professional Media and Entertainment, T. Coughlin, Proceedings of the 2009 SMPTE Annual Technical Conference, Oct. 2009.

Flash and HDD: Symbiosis or Survival of the Fittest, T. Coughlin, J. Handy and R. Hoyt, Coughlin Associates, 2009.

NAND Flash Solid State Storage for the Enterprise; J. Thatcher, T. Coughlin, J. Handy, N. Ekker; SNIA Whitepaper, April 2009.

A Need for Improved Standardization of Metadata for Consumer Devices, S. Linfoot and T. Coughlin, Proceedings of the 2009 IEEE International Symposium on Consumer Electronics, June 2009.

2009 Media and Entertainment Storage Report, T. Coughlin, Coughlin Associates, 2009.

Solid State Storage 101: An Introduction to Solid State Storage; N. Ekker, T. Coughlin, J. Handy; SNIA Whitepaper, January 2009.

2008-2013 Capital Equipment and Technology Report for the Hard Disk Drive Industry, T. Coughlin and E. Grochowski, Coughlin Associates, 2009.

Digital Storage in Consumer Electronics: The Complete Guide, Thomas Coughlin, Newnes Press, March 2008.

Personal storage for mobile applications, Thomas M. Coughlin, Journal of Magnetism and Magnetic Materials, Volume 320, Issue 22, November 2008, pp. 2860-2867.

2007 iNEMI Mass Storage Roadmap, T. M. Coughlin, et. al, Nov. 2006.

Flash vs. hard drives: The battle intensifies, T. Coughlin and J. Handy, Solid State Technology, September 2006.

Hard Disk Drive Capital Equipment Market and Technology Report, T. Coughlin, Coughlin Associates, July 2006.

Development of Digital Storage for Consumer Electronics, T. M. Coughlin, Presented at the June 2006 IEEE ISCE Conference in St. Petersburg, Russia and submitted to IEEE Consumer Electronics Society Transactions, June 2006.

Oh Data Where Art Thou, T. Coughlin, Axiom Magazine, 2006

Tape and Disk—A User's Perspective, T. Coughlin and F. Neema, Coughlin Associates, April 2006

Backup and Archive—A User's Perspective, T. Coughlin and F. Neema, Coughlin Associates, March 2006

Continuous Data Protection—A User's Perspective, T. Coughlin and F. Neema, Coughlin Associates, Feb. 2006

Tiered Storage—A User's Perspective, T. Coughlin and F. Neema, Coughlin Associates, Jan. 2006

NAS and NAS Virtualization—A User's Perspective, T. Coughlin and F. Neema, Coughlin Associates, Nov. 2005

Integration of Digital Storage in Consumer Electronics, T. Coughlin, Coughlin Associates, Nov. 2005

Digital Storage in Entertainment Creation and Distribution, T. Coughlin, Coughlin Associates, Oct. 2005

Storage requirements for digital content: higher-resolution content is driving the need for huge storage capacities and high-speed bandwidth, T. Coughlin, InfoStor, Sept. 2005.

Business Continuance and Disaster Recovery, T. Coughlin and F. Neema, November 2004

Backup and Archive—A User's Perspective, T. Coughlin and F. Neema, October 2004

The Disk Drive: 50 Years of Progress and Technology Innovation: The Road to Two Billion Drives, T. Coughlin, D. Waid, J. Porter, Computer Technology Review, April 2004.

Data Storage for Mobile Devices, T. Coughlin, The Mobile Imperative, Montgomery Research, 2003.

2004 NEMI Mass Storage Roadmap, T. M. Coughlin, et. al, November 2003.

Matching Data Storage to Consumer Applications, T. Coughlin, Presentation at IDEMA Mini-Symposium, May 2002

Data Storage Test and Process Equipment Report, T. Coughlin, D. Waid, June 2002

Secure Erase of Disk Drive Data, T. M. Coughlin and G. F. Hughes, IDEMA Insight Magazine, Spring 2002.

Effective Permeability and Imaging of Multilayered Soft Magnetic Films for Perpendicular Recording, J. Monson, T. Coughlin, Presented at InterMag Conference, April 2002

Entertainment Storage Market, T. Coughlin, Presentation at Storage Visions 2002 Conference, January 2002

Entertainment and Consumer Electronics Data Storage Report, T. Coughlin, D. Waid, June 2001.

Data Storage Trends and Directions, T. Coughlin, Presentation at Pennwell Data Storage Symposium, November 2001.

SANS/SSPs Drive Storage Demand, T. Coughlin and D. Waid, Data Storage, February 2001

Storage Area Networks—SAN 2001 Report, F. Neema, T. Coughlin, D. Waid, February 2001

New Markets for Storage Products, T. Coughlin, Presentation at IDEMA Novel Storage Technologies and Application Symposium, February 2001.

New Storage Products and Markets, T. Coughlin, Presentation at Pennwell Head/Media Symposium, November 2000.

Fibre Channel HBAs, hubs, and switches, T. Coughlin, F. Neema, and D. Waid, InfoStor, Vol. 4, No. 11, November 2000.

New Directions in Storage Technology and Applications, IDEMA Analyst's Assessment, May 24, 2000.

2000 Computer Peripheral Test/Process Equipment Report, with Dennis Waid of Peripheral Research Corporation.

2000 New Applications for Data Storage, A Market and Technology Report, with Dennis Waid of Peripheral Research Corporation.

HDD Data Rage Demands Focus on Materials, Interconnects, T. Coughlin, Data Storage, December 1999.

Such Stuff as Dreams are Stored On, T. M. Coughlin, Data Storage, March 2000, pp. 24-32.

The Effect of Lubricant Thickness on Head Contamination Susceptibility, G. Vazirani, T. M. Coughlin and D. Oot, presented at ISPS Conference, 1999.

Effective Permeability of Soft Magnetic Layers Adjacent to Recorded Media, J. E. Monson and T. M. Coughlin, presented at InterMag 1999.

1999 Computer Peripheral Test/Process Equipment Report, with Dennis Waid of Peripheral Research Corporation.

1999 New Applications for Data Storage, A Market and Technology Report, with Dennis Waid of Peripheral Research Corporation.

On the Thermal Decay of Magnetization in the presence of Demagnetizing Field and a Soft Magnetic Layer, R. Wood, J. Monson, T. Coughlin, Jour. Magn. and Mag. Matls. 193 (1999), pp. 207-212.

Comparison of Time-Decay of Read-back Signals in Keeped and Non-Keeped Media, J. Chen, J. H. Judy and T. M. Coughlin, IEEE Trans. Magn. 34 (1999), pp. 1624-1626.

Magnetic tape equipment, T. M. Coughlin and D. H. Davies, article for *The Encyclopedia of Electrical and Electronics Engineering*, 1999.

1998 Computer Peripheral Test/Process Equipment Report, with Dennis Waid of Peripheral Research Corporation.

Under-Keeped Media with MR Heads, M. Nichols, B. M. Lairson, T. M. Coughlin, B. Gooch, J. Kehl, J. Perez, IEEE Trans. Magn. 34, (1998), pp. 1152-1154.

Recording Physics of Keeped Inductive Media, E. T. Yen, H. J. Richter, G. L. Chen, G. Rauch, T. M. Coughlin, IEEE Trans. Magn. 34 (1998), pp. 1555-1557.

Sputtering Update: On the Road to GMR, T. Coughlin, Data Storage, May 1998, pp. 21-24.

End of the Road for Magnetic Storage or Just the Beginning, T. Coughlin, Data Storage, March 1998.

Keeped Media Quieter, T. Coughlin, Data Storage, Nov./Dec. 1997, p. 24.

Keeped Media slow Thermal Decay of Data, T. Coughlin, Data Storage, May/June 1997, pp. 10-12.

Keeped Media Recording: super-resolution for magnetic recording, R. Wood, T. Coughlin, J. Monson, J. Magnetics Soc. Japan, Vol. 21, Supplement S2 (1997).

Read-Back Nonlinearity in Longitudinal Keeped Recording, B. A. Wilson, S. X. Wang and T. M. Coughlin, IEEE Trans. Magn. 33 (1997).

Experimental Study of Recording Performance of Sendust and CoZrNb Keeped Thin Film Media, J. Chen, X. Lin, J-G Zhu, J. H. Judy and T. M. Coughlin, IEEE T-Mag, Vol. 33, No. 5, Sept. 1997, pp. 3040-42.

The Effects of Sendust Keeper Thickness, Cr Break-layer Thickness and Reproduce Bias on Keeped Media Performance and Pulse Asymmetry, B. Lal, M. Alex, C. Sordello and T. M. Coughlin, IEEE T-Mag, Vol. 33, No. 5, Sept. 1997, pp. 3037-39.

Magnetic Recording Performance of Keeped Media, T. M. Coughlin, Y. S. Tang, E. M. T. Velu and B. Lairson, J. Appl. Phys. 81(8), April 15, 1997, pp. 4693-95.

High Density Recording with Keeped Media and Planar Heads, T. M. Coughlin, J. R. Hoinville, B. R. Gooch, W. G. Haines and A. Payne, J. Appl. Phys. 81(8), April 15, 1997, pp. 4843-45.

Keeped Media add more Byte to Magnetic Recording Heads, T. Coughlin, B. Gooch and B. Lairson, Data Storage, Oct. 1996, pp.

Near-Contact Recording Means Clean Recording, T. Coughlin, Data Storage, October 1996.

Design Trends in Head/Gimbal Assemblies for Hard-Disk Drives, T. Coughlin, D. Miu, Data Storage, May/June 1995, pp. 23-31.

Glass Platters for Small HDDs Provide Reliable High Density Storage, T. Coughlin, Data Storage, May 1995.

The Future of Disk Magnetic Recording, T. M. Coughlin, invited paper at MAGEL'94 conference in Japan Nov. 1994.

Designing Media with Alternative Substrate Materials, E. Teng, A. Eltouhky, T. Coughlin, Data Storage, September 1994, pp. 35-40.

Magnetometry and Recording on Very High Coercivity Cobalt Alloy Disk Media, T. Coughlin, N. Viswanathan, D. Speliotis, IEEE Transactions on Magnetics, Vol. 27, No. 6, November 1991, pp. 5034-36.

Texture Optimization on Circumferentially Textured Disk Surface for Contact Start/Stop Performance, N. Viswanathan, T. Coughlin, Adv. Info. Storage Syst, Vol. 3, 1991 (ASME/STLE Tribology Conference 1991).

Effect of Chromium Underlayer Thickness on Recording Characteristics of CoCrTa Longitudinal Recording Media, J. L. Pressesky, S. Y. Lee, N. Heiman, D. Williams, T. Coughlin, D. Speliotis, IEEE Transactions on Magnetics, Vol. 26, No. 5, Sept. 1990, pp. 1596-98.

Effects of Cr Underlayer Thickness and Texture on Magnetic Characteristics of CoCrTa Media, T. Coughlin, J. Pressesky, S. Lee, N. Heiman, R. D. Fisher, J. Appl. Phys. 67(9), May 1, 1990, pp 4689-91.

Three-dimensional Finite-Element Analysis of Recording Heads, D. A. Lowther, T. M. Coughlin, J. Appl. Phys. 63(8), April 15, 1988, pp 3375-77.

Sendust Films for High Temperature Processing, T. M. Coughlin, IEEE Transactions on Magnetics, Vol. MAG-21, No. 5, September 1985, pp 1897-99.

Improved Single Sided Perpendicular Recording Write Head, T. M. Coughlin, presented at 1984 InterMag.

Nitrogen-induced FCC Phase in RF Sputtered Co-Cr Films having the HCP phase and Perpendicular Magnetic Anisotropy, T. M. Coughlin, J. Vac. Sci. Tech., 20(2), Feb. 1982, pp 171-74.

Co-Cr Films with Perpendicular Magnetic Anisotropy, T. M. Coughlin, J. H. Judy, E. R. Wuori, IEEE Transactions on Magnetics, Vol. MAG-17, No. 6, Nov. 1981, pp 3169-71.