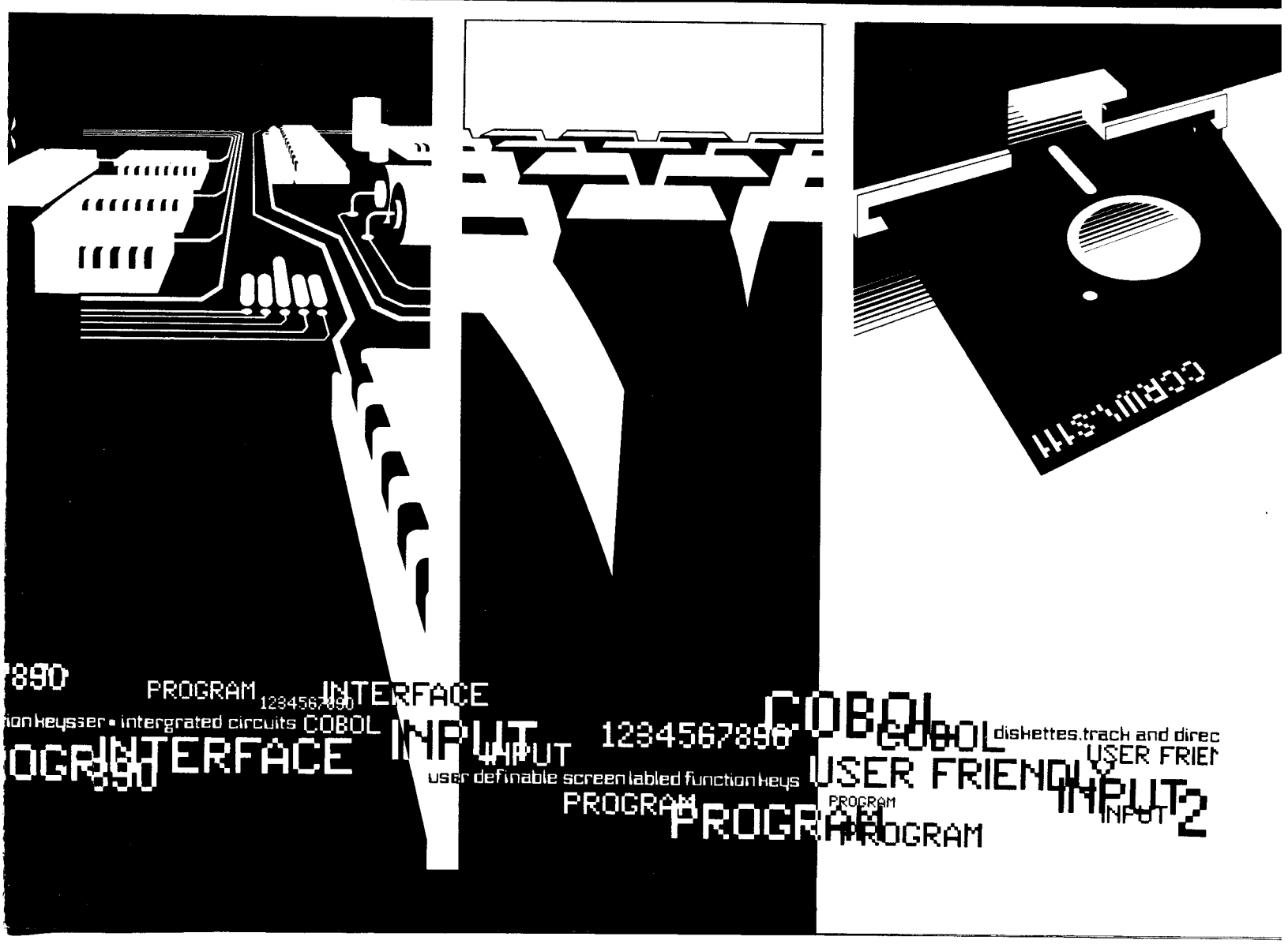
RESEARCH IN WORD PROCESSING NEWSLETTER

South Dakota School of Mines and Technology Rapid City, SD 57701 (605) 394-2481
Volume 6 Number 8 November 1988

Hard Disk Utilities: File Recovery Programs 2
Mauro G. Di Pasquale, M.D.

Bibliography Update 6
Bradford A. Morgan

Humanities Conference
page 10



Research in Word Processing Newsletter

Editors
Bradford A. Morgan, Ph.D.
James M. Schwartz, Ph.D.

Contributing Editors
Bryan Pfaffenberger, Ph.D.
University of Virginia
Tom Carney, Ph.D.
University of Windsor
Mauro G. Di Pasquale, M.D.
Warkworth, Ontario

Research in Word Processing Newsletter. Volume 6, Number 8. Copyright © 1988 by the South Dakota School of Mines and Technology. All rights reserved. ISSN: 0748-5484. Also indexed by *ERIC, COMPUTER AND CONTROL ABSTRACTS (NSPEC), COMPUTER LITERATURE INDEX, LITERARY CRITICISM REGISTER,* and *SOFTWARE REVIEWS ON FILE.* The *Research in Word Processing Newsletter* is published 9 times a year (September through May) by the South Dakota School of Mines and Technology, Rapid City, South Dakota, USA 57701-3995; (605) 394-2481. Postage paid at Rapid City, South Dakota. SUBSCRIPTION RATES US funds: $18 (US); $24 (Canada); $27 (Foreign). Address all subscription inquiries and manuscripts to the Editors, *Research in Word Processing Newsletter*, SDSM&T, 501 East St. Joseph Street, Rapid City, South Dakota, USA 57701-3995. The Editors are not responsible for any unsolicited manuscripts. Please allow 4 to 6 weeks for subscription order processing. Selected back issues are also available: contact the Editors for more details. POSTMASTER: Send address changes to *RWPN*, South Dakota School of Mines and Technology, 501 East St. Joseph Street, Rapid City, South Dakota, USA 57701-3995.

Hard Disk Utilities
File Recovery Programs

Mauro G. Di Pasquale, M.D.

It's hard to always be on the ball. Sooner or later you'll answer yes when you really meant no. It's bad enough inadvertently wiping out some files, but if you've ever accidentally formatted your hard disk, then you know the true meaning of despair. But all is not lost.

There are dozens of programs on the market for undeleting files (and some will, to a greater or lesser extent, ease your despair over your newly formatted hard disk), including *Baker's Dozen, DS Recover, Disk Explorer, Mace Utilities, The Norton Utilities* (Version 4.0 and Advanced Edition) and *PC Tools.*

Of course you could use DEBUG, the only DOS program that helps you to recover erased files—you could that is if you're feeling rather masochistic. DEBUG, unless you're an experienced hacker (and even they would rather use one of the commercial programs), is an exercise in frustration. Everything must be done manually, even to the point of having to alter the directory and file allocation table.

Even so, there are many public domain and shareware utilities for recovering files. While most of these programs work to some extent, they don't compare with the power, flexibility and ease of use of the commercial software.

However, no matter which program you use to undelete your files, it's important to act quickly. Since DOS doesn't physically erase the deleted file from the disk (it only marks the physical space that the file occupies as free space which can be written to), you have to get to the undeleted file before it's written over with new information. Once the physical space of the deleted file is occupied by a new file(s), you've lost your chance at recovering all of the deleted file, although you can still recover portions that haven't been written over.

Recovering part of text files may be worthwhile since recovering any part of the data is preferable to losing it all. For program, spreadsheet and database files, partial file recovery is usually not helpful. Until you physically overwrite the deleted files, you can still bring them back with one of the many commercial file recovery programs.

The competition among the various commercial programs is keen, each program bringing on new version with improvements and more features. Most have added other hard disk utilities in an effort to gain a competitive edge – that edge, however, is quickly lost as the others play catchup.

Norton Utilities

The *Norton Utilities* is the most widely known and used of all the file recovery programs. Besides unerasing files and directories, its byte level editor, its ability to test disk integrity and give system information, the *Norton Utilities Advanced* can also unformat a hard disk (you need to run a special program whenever you boot up for this feature to be functional) and optimize your hard disk (this speeds up file access by reordering the data on the disk/diskette in order to reduce head movement).

Another nice touch on both versions of the *Norton Utilities* is their excellent demo program, which gives you a well organized and easy to understand tour of all the features.

I'm fond of the *Norton Utilities*. It's slick, easy to use, and has the best documentation of any of the other utility programs. When I have to undelete a file, I use the *Norton Utilities*. Recovering files is easier than ever, and in most instances the quick unerase program is all that's needed to save that file.

DS Recover

This memory resident program actually saves erased files by not allowing DOS to overwrite them. Thus every deleted file is saved until you decide that you want to get rid of it permanently (a true second chance – if you blow it again, then you deserve to lose the file, but you could probably recover it anyway). You can see the directory of all erased files and recover the ones you want. In essence it's like copying all deleted files to another subdirectory, out of sight but not out of mind. You can also use *DS Recover* to recover deleted files in much the same manner as the other utilities.

DS Recover also includes another RAM resident program called *Snapshot,* which protects your memory resident information in the event of power failures or system lockups. Every few minutes *Snapshot* saves to disk everything that's in RAM – so if your computer crashes you won't lose much work or time. *DS Recover* is an interesting program and one I would use more extensively except for my already overflowing hard disk (I'd need a WORM drive to be able to hold all the files I delete). But for those of us who are accident prone, it's the only one that will guarantee 100% recovery of all deleted files, no matter when they were deleted. And for those of us who are slack about saving our files to disk at frequent intervals, and who regularly crash their system (especially if you use a number of RAM resident programs) *Snapshot* (even though it also takes up hard disk space equivalent to your RAM) is a Godsend.

Baker's Dozen

This a hard program to categorize. It's file recovery features and byte level editor are as good as any, but not as slick or as easy to use. On the other hand, this shareware pro-

gram has over a dozen extra utilities which run the gamut from a mini RAM resident spreadsheet to a *Sideways*-like printing feature. It has a calendar, a file comparison feature, a screen capture feature (but not for graphics), text and file location capabilities, and a few small programs to swap your LPT and COM ports. All in all a handy package to have around. And the price is right, you only pay if you like and intend to use program. I'd recommend everyone give this program a try; you'll find countless uses for it.

PC Tools Deluxe

PC Tools Deluxe offers more features than any other utility. It has excellent file recovery capabilities (including the ability to recover from an accidental hard disk format), a full-featured text editor, a DOS shell, disk caching (a feature which speeds up disk access by storing frequently used data in memory instead of re-reading it from disk—similar to the features seen in stand alone programs such as *Fast Forward*, *Flash*, and *Lightning*), a disk optimizer (see *RWPN*, October '88), and a hard disk backup.

As well as having the most features, it also has the lowest price tag (it can be bought for under $70 from the discount houses). All of *PC Tools* features are first rate: there is no trade off for the low price. In fact some of the features are superior to those found in the other utilities. For example, the hard disk format recovery feature is superior to those found in the *Norton Utilities Advanced* and even the *Mace Utilities* (unlike the *Mace Utilities'* Unformat, *PC Tools'* Unformat feature will correctly rebuild your file allocation table so that you will not have to copy off all the files, reformat your hard disk, then copy them back on. Further, it will work regardless of whether the directory, or file allocation table, or both, have been damaged).

PC Tools, like the *Norton Utilities* and *Mace Utilities*, also has a safer and more reliable method of guarding against an inadvertent hard disk format—it makes a backup directory at a special location on the hard disk where it isn't affected by the format. This feature necessitates that you run a program when you boot up your system (most conveniently as part of your **autoexec.bat**).

Although *PC Tools* file recovery features will let you unformat a formatted hard disk, you won't be able to unformat your floppies (there's no program that I know of that will let you do this) since in formatting floppy disks the data itself, rather than just the directory and FAT, is corrupted.

PC Tools' undelete features are also first rate. Unlike most other utilities, *PC Tools'* Undelete doesn't lose the first character of the file name. As well it can successfully undelete fragmented files with less fuss and bother than some of the other utilities.

PC Tools' backup features are every bit as fast and reliable as *Fastback*'s. Both it and *Fastback* create a "parity" record that allows recovery of data even if there is an error on every single track of the backup diskette (up to 160 errors).Unlike the other utilities, PC Tools has an optional resident mode (I'll have more to say on this in a future article discussing RAM resident multitasking).

An added bonus support for the new PS/2 family of IBM computers has been added to *PC Tools Deluxe*, including support for DOS 3.3, and 1.44 megabyte, 3.5" diskettes.

Mace Utilities

Peter Norton and Paul Mace are the Coke and Pepsi of file recovery programs. Their ongoing competition, a bit nasty at times, has driven the market, resulting in the excellent products we have today.

In contrast with the *Norton Utilities*, the *Mace Utilities* is a bit rough around the edges. However, the program does almost as much as *PC Tools Deluxe*, and includes an excellent disk caching program, a disk optimizer, a *dBASE* file recovery system, and floppy disk and video display enhancement programs (from Golden Bow Systems).

A recent addition to the Mace lineup is *Mace Vaccine*, a simple yet effective utility for warding off a computer flu or virus: those malignant pieces of computer codes which can destroy information on your disk. *Mace Vaccine* is designed to warn you when unusual attempts are made to access vital disk areas and system files. You can raise the protection level to prevent any unauthorized access outside of DOS. This will stop any virus before it infects your system.

Recommendations?

If you had to do with just one hard disk utility I would choose ***PC Tools***. It's got the most bang for the buck.

If you need a powerful byte level editor (one that will allow you to edit disk data, directories, the Fat, the disk partition table and anything else your heart desires), and advanced file recovery capabilities, then you should get one of the two versions of the ***Norton Utilities***.

DS Recover deserves some mention for its rather unique way of protecting deleted files and memory. If you have the disk space, it might be the best safety net your computer ever had.

Mace Utilities, as well as having features comparable to the other programs, also has some unique options to recommend it (such as disk caching, and floppy disk and video display enhancement). And for those prone to the flu, the new *Mace Vaccine* will work better than vitamin C. And finally, there's the ***Baker's Dozen***, which while it has the look and feel of a CP/M utility, can be extremely handy to have on hand.

If you've got the bucks, go for more than one. After all with two or three of these utilities on hand, you'll have power, safety, convenience, and, most of all, peace of mind.

Software Reviewed

Baker's Dozen

ButtonWare Inc., PO Box 5786, Bellevue, WA, USA 98006

DS Recover

Design Software, 1275 Roosevelt Rd., West Chicago, IL, USA 60185

Mace Utilities

Paul Mace Software, 400 Williamson Way, Ashland, OR, USA 97520

Norton Utilities

Peter Norton Computing Inc., 2210 Wilshire Blvd., Santa Monica, CA, USA 90403

PC Tools

Central Point Software, Inc., 9700 SW Capitol Hwy. #100, Portland, OR, USA 97219

Contributing Editor Dr. Mauro G. Di Pasquale may be reached for questions or comments at 23 Main Street, Warkworth, Ontario, Canada K0K 3K0.

Bibliography Update

Bradford A. Morgan

Atran, Steven M. "Bibliography Files Using *WordPerfect*." *Science Software*. 4:2 (April-June 1988), pp. 118-120.

Allen, Robert F. "The Stylo-Statistical Method of Literary Analysis." *Computers and the Humanities*. 22:1 (1988), pp. 1-10.

Bailin, Alan and Philip Thomson. "The Use of Natural Language Processing in Computer-Assisted Language Instruction." *Computers and the Humanities*. 22:2 (1988), pp. 99-110.

Bowcutt, Roy. "See MAXX Run: CD-ROM Product Represents Technological Advance in Medical Publishing." *LAN Times*. 5:9 (October 1988), pp. 55, 60-61.

Brogan, Daniel. "Building a Publishing System for You: Building a System Ought to Be a Liberating Experience, Not a Frightening One." *Personal Publishing*. 4:10 (November 1988), pp. 26-27.

Budgett, Henry. "*PageMaker 3.0*." *Personal Computer World*. 11:7 (July 1988), pp. 172-179.

Carson, Scott. "Linguistically Oriented Greek Scansion." *Computing and the Classics*: *Supplement*. 4:4 (August 1988), pp. 1-8. (describes the verse-analyzing program *SCAN)*

Cline, Craig E. "Word Processing Approaches Desktop Publishing." *LAN Times*. 5:9 (October 1988), pp. 37-38.

Crismond, David. "Desktop Publish or Perish: Administration and Faculty Are Bringing Desktop Publishing into the University." *Publish!* 3:10 (October 1988), pp. 52-57.

Desktop Publishing Solutions. Farmington Hills, MI: ABC Information Systems, 1988. (*Ventura Publisher* training course with two videocassettes, a workbook, and exercises on a floppy disk)

Durbin, Jason. "A Bargain *Ventura*? *Publish It*." *Publish!* 3:10 (October 1988), pp. 98, 100, 102.

Durbrow, Eric. "Atari & Amiga Publishing, Part Three." *Personal Publishing*. 4:10 (November 1988), pp. 74-75, 86, 88. (author is an anthropologist)

"EXPRES." Telepublishing Report. (February-March 1988), pp. 27-39. (*EXPRES* is the National Science Foundation's Unix-based EXPerimental Research in Electronic Submission)

Frisse, Mark E. "Searching for Information in a Hypertext Medical Handbook: Medicine Is an Ideal Domain for Hypertext Applications and Research. Implementing a Popular Medical Handbook in Hypertext Underscores the Need to Study Hypertext in the Context of Full-Text Document Retrieval, Machine Learning, and User Interface Issues." *Communications of the ACM*. 31:7 (July 1988), pp. 880-886.

Garner, Rochelle. "Building Beyond the Desktop: Workstations Offer Network Publishing Today. Is It Time to Move Up?" *Personal Publishing*. 4:10 (November 1988), pp. 56-60.

Hamby, Paul W. "An Envelope Macro for *WordPerfect 5.0*." *The Lawyer's PC*. 6:1 (October 1, 1988), pp. 8-10.

Hansen, Sheridan R. "LANs Speed Up the Newsroom: When Deadlines Mean Everything, Networking Makes a Difference." *LAN Times*. 5:9 (October 1988), pp. 52-53.

Heid, Jim. "The Great Write-Off. Which Is the Best Powerhouse Word Processor: *Microsoft Word, FullWrite,* or *WordPerfect?*" *Macworld*. 5:11 (November 1988), pp. 122-135.

Helgerson, Linda W. "CD-ROM and Scholarly Research in the Humanities." *Computers and the Humanities*. 22:2 (1988), pp. 111-116.

Herold, Steve. "Building a Macintosh System: As the Ever-increasingly Sophisticated Mac Proves, Ease-of-Use Needn't Mean Lack of Power." *Personal Publishing*. 4:10 (November 1988), pp. 32-41.

Hobbs, N. T. "Notebook Computers in Biological Research: Less Technology, More Productivity." *Science Software*. 4:1 (January-March 1988), pp. 14-16.

Hogan, Robert D. and Rebecca A. Kenyon. "Object-Oriented Database Management in Research." *Science Software*. 4:1 (January-March 1988), pp. 7-13.

Hume, Barbara R. "Novell Updates Education Grant Program." *LAN Times*. 5:9 (October 1988), p. 14.

Individual Training for Pagemaker. San Carlos, CA: Individual Software, 1988. (on-disk tutorial running side-by-side with Macintosh *Pagemaker)*

Kahn, Paul. "Full, but Not Right: *Fullwrite Professional*." *Publish!* 3:10 (October 1988), pp. 96, 98. (version 1.0 for the Macintosh)

Kimbrell, Roy E. "Searching for Text? Send an N-Gram. Short Character Strings Called N-Grams Give Every Document a Unique Signature." *Byte*. 13:5. (May 1988), pp. 297-312.

Lindgren, Amy. "Freedom of the Press: Personal Computers Liberate the Newsroom While Blurring the Definition of `the Press.'" *Computer User*. 7:11 (November 1988), pp. 18-20.

Lombardi, John. "*Wordstar Professional 5.0*: Classic Word Processing Program Still Fighting. Update Challenges Rivals While Maintaining Original Interface." *InfoWorld*. 10:40 (October 3, 1988), pp. 65, 68.

Lombardi, John et al. " Product Comparison: Executive Word Processors. *InfoWorld* Examines 11 Easy-to-Use Word Processors for the Busy Executive." *InfoWorld*. 10:39 (September 26, 1988), pp. 43-77. (reviews of *DAC Easy Word II 1.0, IBM Displaywrite Assistant 1.0, MS Windows Write 2.1, PC Type Plus, PC Write 2.71, Professional Write 2.00, Q&A Write 1.01, Textra 5.2, Volkswriter Deluxe Plus 1.0, Webster's New World Writer II 1.0,* and *Word Perfect Executive 1.0)*

Mardesich, Jodi. "Desktop Publishing Integrations Solutions Can Be Complicated." *LAN Times*. 5:9 (October 1988), pp. 35-36. (focus on KEEPS in technical writing context)

Mathisen, Ralph W. "The Creation of a Prosographical Database for Late Antiquity." *Humanistiske Data*. 2 (1988), pp. 33-40.

Millenson, Janet. "Desktop Publishing in the Black: How to Ensure That Your Desktop Publishing System Makes Sense at the Bottom Line." *Publish!* 3:10 (October 1988), pp. 66-71.

Morris, Gloria. "*Grammatik III* Forges Ahead As Best Product in Its Field: Easy-to-Use Copy Editor Helps Writers to Fight against Jargon, Clutter, and Grammatical Errors." *InfoWorld*. 10:41 (October 10, 1988), pp. 72, 76.

O'Haver, Thomas C. "An Alternative Approach to Scientific and Technical Word Processing." *Science Software*. 4:2 (April-June 1988), pp. 109-111.

Pagemaker Live. El Modena, CA: Image Express, 1988. (two-hour videotape, disk with templates, for the IBM PC or Macintosh; beginning, intermediate, or advanced modules)

Parker, Mike. "The Future of Type." *Corporate Publishing Special Supplement: Technology Trends*. (1988), pp. 6-7.

Potter, Rosanne G. "Literary Criticism and Literary Computing: The Difficulties of a Synthesis." *Computers and the Humanities*. 22:2 (1988), pp. 91-97.

Rivera, Christine. "Champagne Documents on a Beer Budget: You Don't Need an Expensive Desktop Publishing Package to Get Good Results from a Laser Printer. You Can Get the Same Results with a High-End Word Processor. Here's How to Do It." *Information Center*. 4:10 (October 1988), pp. 16-22.

Rosch, Winn L. "A PostScript Primer: What It Is, How It Works." *PC Week*. 5:41 (October 10, 1988), p. S/10.

Roth, Steve. "*PageMaker* at Three: The Program We Dreamed about Three Years Ago Is Almost Here." *Personal Publishing*. 4:10 (November 1988), pp. 64-73

Rundel, Robert D. "*Turbofonts*: The Quest for the Ultimate Scientific Word-Processing System Continues." *Science Software*. 4:2 (April-June 1988), pp. 186-189.

Schneiker, Henry. "Problems with Font Availability." *Digital News*. 3:19 (October 3, 1988), pp. 21, 23.

Selfe, Cynthia L. and Billie J. Wahlstrom. "Computers and Writing: Casting a Broader Net with Theory and Research." *Computers and the Humanities*. 22:1 (1988), pp. 57-66.

Smith, Gina. "DOS-Based Word-Processing Programs Invade World of Unix." *PC Week*. 5:41 (October 10, 1988), pp. 79, 81-82.

Smith, M. W. A. "The Authorship of Acts I and II of *Pericles*: a New Approach Using First Words of Speeches." *Computers and the Humanities*. 22:1 (1988), pp. 23-41.

Snapp, Cheryl. "Will Networking and Desktop Publishing Ever Make It to the Alter." *LAN Times*. 5:9 (October 1988), pp. 30-32.

"*Sprint*: The Professional Word Processor." *Software Digest Buyer's Alert*. 5:9 (September 1988), pp. 1-6, 8.

Steinberg, Don. "Database Publishing Gives Stored Data a Professionally Typeset Appearance," "Users Benefit from Database-Publishing Software," and "Software Developers Find New Way to Handle Database Files." *PC Week*. 5:40 (October 3, 1988), pp. 77-81.

Stephens, Mark. "Educators Endorse Group Computer Instruction." *InfoWorld*. 10:39 (September 26, 1988), p. S15. (focus on Galludet College's LAN-based *Realtime Writer* software)

Swanson, Julie. "Fine-Tuning the Written Word: How Coffee House Press Uses Electronic Page Layout in Its Quest for Excellence." *Computer User*. 7:11 (November 1988), pp. 15-16.

"Teaching Writing to Dyslexic Students: The Forman School Project." *The Catalyst*. 6:2 (1988), pp. 3-4.

Torgerson, Kimberly. "A Top Contender: *Word Perfect* for the Macintosh." *Publish!* 3:10 (October 1988), pp. 102, 103-104.

Van Dam, Andries. "Hypertext '87 Keynote Address." *Communications of the ACM*. 31:7 (July 1988), pp. 887-895.

Webb, Craig. "Making the Grade: How Colleges Are Teaching Desktop Publishing." *Publish!* 3:10 (October 1988), pp. 58-60.

Will-Harris, Daniel. "Building an IBM System: Nobody Said It Would Be Easy, but the End Results Can Be Well Worth It." *Personal Publishing*. 4:10 (November 1988), pp. 44-54.

Wood, Lamont. "Word Processors for Desktop Publishing: Advanced Packages Can Do Some Desktop-Publishing Functions, but a Gap Still Exists." *Byte*. 13:5. (May 1988), pp. 102-116.

Wright, Haviland. "Thoughts on the Role of Artificial Intelligence in Publishing." *Corporate Publishing Special Supplement: Technology Trends*. (1988), pp. 13-14.

Want to reach a highly focused readership of over 1,000 professional writers in universities, corporations, and government laboratories throughout the world?

As an informational aid to its readers, the *Research in Word Processing Newsletter* invites companies and colleges to insert preprinted, ready-to-be-inserted announcements, advertisements, or product brochures into future issues. Contact the Editors at (605) 394-2481 for information about the nominal, cost-recovery charge.

Call for Papers: Artificial Intelligence and Education

The 4th International Conference on Artificial Intelligence and Education will be held at the University of Amsterdam on May 24-26, 1989. The theme is "Synthesis and Reflection," focusing on intelligent teaching systems and AI-based learning environments, including applications to text and the writing process. December 1, 1988, is the deadline for submission of 4-page (3000 word) papers with a half-page abstract. Writers should address the main research question (relevance), research method, results and evaluation (answers to research question), and a comparison with previous work to highlight what is new. Contact the AIED-89 Secretary, SWI, University of Amsterdam, Herengracht 196, 1016 BS Amsterdam, The Netherlands, or call (+31) 20-525 20 73.

Computers and Teaching in the Humanities Conference

"Redefining the Humanities" is the theme of CATH 88 or Computers and Teaching in the Humanities, to be held December 13-15, 1988, at the University of Southampton. Papers presented include

"Text and Hypertext: Computers and the Teaching of Poetry"
The use of hypertext as the medium for studying poetry enables the intertextuality of a poem to be properly represented. This is likely to change our conceptions of what a poem is.

"Computing: Means and Ends in the Study of Literature"
The introduction of a computer course for English Literature students will be reviewed, illustrating some of the problems in learning methods that occurred and some contrasting attitudes among students and staff.

"The Image of a Word"
A possible system is described for generating pictorial representations of texts, such as narratives and poems. Its implications for research on underlying cognitive processes will be considered.

"Computers in the Study of Set Texts"
Developments at Oxford in the use of computer facilities to support textual study are raising several questions about the role of the computer in learning, such as its effectiveness in literary criticism and the problems of dealing with large textual databases.

Contact Dr. May Katzen, Office for Humanities Communication, University of Leicester, Leicester, England, LE1 7RH or phone 0533-522598.

Call for Papers: Computational Linguistics

The 27th Annual Meeting of the Association for Computational Linguistics will meet June 26-29, 1989, at the University of British Columbia in Vancouver. January 6, 1989, is the deadline for papers on substantial, original, and unpublished research on all aspects of computational linguistics, including, but not limited to, pragmatics, discourse, semantics, syntax, and the lexicon; phonetics, phonology, and morphology; interpreting and generating spoken and written language; linguistic, mathematical, and psychological models of language; machine translation and translation aids; natural language interfaces; message understanding systems; and theoretical and applications papers of every kind.

Authors should submit twelve copes of an extended abstract not to exceed eight double-space pages (exclusive of references) in a font no small than 10 point (elite). The title page should include the title, the name(s) of the author(s), complete addresses, a short (5 line) summary, and a specification of the topic area. Contact Julia Hirschberg, ACL89 Program Chair, AT&T Bell Laboratories, 2D-450, 600 Mountain Avenue, Murray Hill, NJ 07974, or call (201) 582-7496.

Call for Papers: Professional Communications

"Communicating to the World" is the theme of IPCC 89, the IEEE's International Professional Communication Conference, set for October 18-20, 1989, in Garden City, NY. January 15, 1989, is the deadline for submission of 300-500 word abstracts for papers covering any aspect of the use of high-tech and computer technology in the world of technical writing, in addition to other topics of interest to the technical communicator. Send abstracts to Dr. Robert Krull and Dr. Philip Rubens, Department of Language, Literature, and Communication, Rensselaer Polytechnic Institute, Troy, NY 12180. IPCC 89 information can be obtained from Mr. Richard M. Robinson, Grumman Corporation, MS C39-05, Bethpage, NY 11714, or call (516) 575-5472.

Call for Papers: Small College Computing Symposium

December 2, 1988, is the deadline for submitting one-page abstracts of papers for the 22nd Annual Small College Computing Symposium, to be held April 21-22, 1989, at the University of Wisconsin in Eau Claire. Contact Donna Raleigh, Academic Computing Services, University of Wisconsin, Eau Claire, WI 54702-4004, or call (715) 836-5162.

RWPN Back Issues

Volume 6, #7 [October '88], 16 pp.
How the Other Half Wordprocesses; Bibliography Update; Hard Disk Utilities, DOS Shells, and Disk Optimizers

Volume 6, #6 [September '88], 16 pp.
Improving Your Writing With Style Analysis Programs; Bibliography Update; News & Notes

Volume 6, #5 [May '88], 32 pp.
Writing in a World of Word Processing, Hypertext, CD-ROM, and Computerized Typesetting: A Bibliographic Report on the Rise of Computer-Oriented Document Engineering (CODE)

Volume 6, #4 [April '88], 16 pp.
Norton Textra: Word Processing for Composition Classes; Bibliography Update; Beyond Word Processing—Text Management Programs

Volume 6, #3 [March '88], 16 pp.
Microsoft Word 4.0: Battling *WordPerfect* for #1; Bibliography Update; Prewriting and Revising with *Writer's Helper*

Volume 6, #2 [February '88], 20 pp.
The Professional Writer's Workstation: Software for Managing Information; Bibliography Update; News & Notes

Volume 6, #1 [January '88], 16 pp.
Ten Computerized College Writing Programs: Toward a Benchmark; The Professional Writer's Workstation: Content Analysis Comes to the Micros; The Future of Desktop Publishing in Technical Communications

Volume 5, #9 [December '87], 20 pp.
Electronic Manuscripts in the Midwest, Or, When Chicago Talks, People Listen; Word Processing in College Writing Labs: What the Experience at Ten American Universities is Telling Us; Bibliography Update; News & Notes

Volume 5, #8 [November '87], 24 pp.
An Approach to Multilingual Texts; *RamFont* and Transliterated Greek: A Look Back at the Hercules Graphics Card Plus; News & Notes

Volume 5, #7 [October '87], 20 pp.
A Computing Program for Word Processing; News & Notes; Bibliography Update; On the Meaning of the Term "Desktop Publishing"

Volume 5, #6 [September '87], 20 pp.
Building Text Filters in *Turbo Pascal*; News & Notes; Bibliography Update; Mainframe Text Analysis Journeys to Micros

Volume 5, #5 [May '87], 44 pp.
From Word Processing to Desktop Publishing and CD-ROM: A Five-Year Bibliographic Perspective on the Impact of Computers on Writing and Research

Volume 5, #4 [April '87], 16 pp.
"Desktop Publishing": Some Semantic Quibblings; Bibliography Update; News & Notes; The Impact of Word Processors on Authors and Their Books

Volume 5, #3 [March '87], 18 pp.
Software Review: *PC-Write 2.7*; Bibliography Update; Evaluating Student Papers with a Word Processor: A Progress Report

Volume 5, #2 [February '87], 16 pp.
Cyrillic Word Processing; 1987 CCCC Convention Program; Bibliography Update; Shareware Integration

Volume 5, #1 [January '87], 18 pp.
Desktop Publishing and the Writer: An Outline of the Future; Footnote to "The Global Microcomputer"; Bibliography Update; The Productivity Chimera

Volume 4, #9 [December '86], 16 pp.
A Customized *AppleWriter* Startup Program; Bibliography Update; *SNOBOL4* Programming as Word Processing; 1986 Software Review Index

Volume 4, #8 [November '86], 18 pp.
Multilingual Word Processing with the Macintosh; Bibliography Update; Memory Resident Thesaurus Programs

Volume 4, #7 [October '86], 18 pp.
FinalWord II: Word Processing for a College Writing Program; Word Processing as a Tool for Revision; Bibliography Update

Volume 4, #6 [September '86], 18 pp.
Desktop Publishing That Anyone Can Do; Software Review: *AppleWriter II*; Computer Projected Thinking in the Classroom; Bibliography Update; Electronic Outlining Comes of Age

Volume 4, #5 [May '86], 24 pp.
Word Processing, Electronic Research, and Desktop Publishing: Annual Cumulative Bibliography

Volume 4, #4 [April '86], 32 pp.
Personal Publishing on Microcomputers; Writing-Instruction Software with *HBJ Writer*; Software Review: *WordPerfect 4.1*; Bibliography Update; Scholar's Software Library: *RightWriter 2.0*

Volume 4, #3 [March '86], 16 pp.
More on Low-Cost Word Processing; Classroom Computers & Job Seeking Strategies; Bibliography Update; Scholar's Software Library: *Fancy Font 2*

Volume 4, #2 [February '86], 22 pp.
A Typology of Word-Processing Programs; News & Notes; Bibliography Update; Addendum to *Microsoft Word* (Macintosh)

Volume 4, #1 [January '86], 18 pp.
Diagrammatic Writing: "Larger Vision" Software; 1985 Software Review Index; Software Review: *Nota Bene*; Bibliography Update; *TeleCommuter*: Laptop to PC Link

Volume 3, #9 [December '85], 22 pp.
The English Department Microlab: An Endangered Species; Software for Text Analysis and Writing Instruction; Bibliography Update; Software Review: *Microsoft Word* (Macintosh)

Volume 3, #8 [November '85], 14 pp.
Effects of Word Processing on the Correctness of Student Writing; Software Review: *Quintilian Analysis*; Bibliography Update; Software Review: *NoteBook II*

Volume 3, #7 [October '85], 18 pp.
Introducing Word Processing to Students; Software Review: *Readability*; A Cautious View of Computers in Teaching Writing; Bibliography Update; Software Review: *Samna +*

Volume 3, #6 [September '85], 16 pp.
Word Processing on a Budget; Bibliography Update; Scholar's Software Library: *ProofWriter*; Software Review: *MacWrite 4.5*

Volume 3, #5 [May '85], 20 pp.
Word Processing, Writing, Literature, and Linguistics: Annual Cumulative Bibliography

Volume 3, #4 [April '85], 16 pp.
Computers, Word Processing, and the Teaching of Writing; Scholar's Software Library: *Framework*; Word-Processing Errors in Technical Writing; Bibliography Update; *ZYIndex*: State of the Art Text Management

Volume 3, #3 [March '85], 12 pp.
Micros, Minis, and Writing: A Critical Survey; Bibliography Update; Software Review: *Microsoft Word* (IBM)

Volume 3, #2 [February '85], 12 pp.
Setting Up a Word-Processing Microlab; Bibliography Update; Scholar's Software Library: *ASCII*; Software Review: *Wordstar 3.3*

Volume 3, #1 [January '85], 12 pp.
A Scholar's Typology of Database Management Software; Bibliography Update; *Textra* Extra; *WordStar* Tips and Tricks

Volume 2, #9 [December '84], 12 pp.
Teaching News Writing with a Computer; Database Management for Teachers and Researchers III; Bibliography Update; Software Review: *WordMARC*

Volume 2, #8 [November '84], 12 pp.
A Meaning-Based Thesaurus from Old English to the Present; National Science Foundation Research Awards; Database Management for Teachers and Researchers II; Bibliography Update; Software Review: *SuperWriter*

Volume 2, #7 [October '84], 12 pp.
Information Overload and the Library Research Paper; A Computerized *Oxford English Dictionary*; Database Management for Teachers and Researchers I; Bibliography Update; Software Review: *Textplus*

Volume 2, #6 [September '84], 12 pp.
Evaluating Student Papers with a Word Processor; Bibliography Update; Software Review: *Textra*

Volume 2, #4 [April '84], 10 pp.
The Future of Word Processing in Academic Writing Programs; BibliographyUpdate; Software Review: *EasyWriter II*

Back Issue Prices

Volume 6 – $6.00 each
Volume 5 – $5.00 each
Volume 4 – $4.00 each
Volume 3 – $3.00 each
Volume 2 – $2.00 each

Price includes First-Class shipping (UPS available at $1.00 extra per issue ordered).

Please specify volume and issue numbers. Make checks payable to ***RWPN*** and send to the Editors, *Research in Word Processing Newsletter*, South Dakota School of Mines and Technology, 501 E. St. Joseph, Rapid City, SD, USA 57701-3995. Please allow 2-4 weeks for order processing and delivery.

Manuscript Submissions Welcome

The *Newsletter* welcomes article submissions that pertain to word-processing, text-analysis, and research applications in professional writing situations, either corporate or academic. Also, hardware and software reviews are encouraged, but please contact Dr. Jim Schwartz, Hardware/Software Review Editor, before submitting them (call Jim at 605-394-1246). Manuscripts should be submitted on MS-DOS 5¼" floppy disks using Aldus *PageMaker*, XEROX *Ventura Publisher*, *WordPerfect*, *Microsoft Word*, or standard ASCII format. The Editors reserve the right to edit manuscripts if necessary. If you want your disk returned, please send enough postage to cover the return cost along with a self-addressed mailer. Address all correspondence to the Editors, *Research in Word Processing Newsletter*, South Dakota School of Mines and Technology, 501 E. St. Joseph, Rapid City, SD, USA 57701-3995. Jim may also be reached on CompuServe (70177,1154).