

TUG'95

Preliminary Program

St. Petersburg Beach, Florida

July 24 – 28

↔ Monday a.m. ↔

TeX and METAFONT techniques: We start with a good burst of traditional TeX papers, hearing about the remarkably different ways TeX and METAFONT are developing:

Richard J. Kinch: METAFONT: converting METAFONT shapes to contours;

Jiří Zlatuška: When METAFONT does it alone;

Gabriel Valiente Feruglio: Modern Catalan typographical conventions;

Jose Luis Ruiz: Complex labels, legends, and composition of figures in TeX documents;

Petr Sojka: Notes on compound word hyphenation in TeX;

Yannis Haralambous: ScholarTeX version 1.

↔ Monday p.m. ↔

TeX practical workshops: This is where people get up and actually *explain* how to use a package, and how you can get started with it. This will probably be organized as parallel sessions, possibly repeated later in the conference. Topics that are likely to be covered include:

PS Tricks, the package to access almost all the power of PostScript from within TeX; with its developer, **Tim van Zandt**;

4AllTeX, the first (and only!) plug'n'play TeX system for DOS on a CD, with unrivaled features and fun; with one of its authors, **Wietse Dol**;

MusicTeX, high-quality music typesetting with TeX;

XyMTeX, sophisticated chemistry structures;

AMS-L^ATeX, the best add-on for mathematical L^ATeX users;

PostScript fonts, how to set up new font families; with the developers of `fontinst` and `PSNFSS`;

MetaPost, the drawing package based on METAFONT which Knuth himself uses; introduced by its author, **John Hobby**.

Anyone who wants to offer a session here should contact Sebastian Rahtz (s.rahtz@elsevier.co.uk).

↔ Tuesday a.m. ↔

TeX Futures: The TeX world is not standing still: there are several projects which build on standard TeX to try and solve old and new problems. This session will give participants the opportunity to listen to progress reports from, and have detailed discussion with, members of the development teams.

Omega, a 16-bit TeX with sophisticated input/output filters, and the complementary Unicode font project, will be on show by its authors, **Yannis Haralambous** and **John Plaice**;

NTS, the New Typesetting System;

e-TeX, the first release of the extended TeX software; support programs like *MakeIndex*, *BibTeX* and *Patgen*, that are all at present being extended and developed.

↔ Tuesday p.m. ↔

Free for an exciting outing!

↔ Wednesday and Thursday ↔

Real World TeX, and electronic publishing: These two days will be devoted to traditional publishing concerns, how to get TeX working, and how it will be used in electronic publishing. Among the activities you can expect during these days are: What's new in electronic publishing? Is TeX playing a part? How can we preserve our hard work in the age of the Internet? Papers offered include:

T.V. Raman: An audio view of L^ATeX documents — Part II (Raman's thesis on this subject, presented recently won a national award);

Sebastian Rahtz and Yannis Haralambous: Practical L^ATeX and Acrobat — how you can get rich PDF documents automatically from L^ATeX;

Michel Goossens: Practical `latex2html`, serious strategies for converting large document databases;

Bart Wage: Real-world electronic journals — how Elsevier Science approaches on-line journal creation; members of the *HyperTeX Project* will describe their approach to publishing academic papers.

We are organizing presentations by various publishers on how they are using TeX, and how they solve practical problems. We will have practical workshops to discuss issues of general concern:

- publishing in physics;
- using Scientific Word and Maple;
- linguistics;
- virtual fonts;
- ScholarTeX and the humanities;
- converting SGML to L^ATeX;
- book design with TeX.

There will be a special session on TeX standards; the working groups of the TUG Technical Council will be invited to report on their progress. A particular feature will be the presentation of the final report of the TeX Directory Structure (TDS) working group, specifying how to set up TeX systems, and a discussion of organising TeX distributions and archives. **Norman Walsh** (O'Reilly), the coordinator of the TDS effort, and **Rich Morin** (Prime Time Freeware), the publisher of the first CTAN CD-ROM, will act as moderators.

Thursday will end with the TeX Users Group business meeting, your chance to hear what the Board of Directors has been up to over the year, check the financial accounts, and put forward your suggestions.

↔ Friday ↔

Projects: TeX in practice involves more than just quality typesetting; we can also delve into TeX tools, TeX programming style, the lessons we have learnt from TeX, and TeX as a programming language. Papers will include:

Sergey Lesenko: T1Part (Type1 partial);

Alan Hoenig: Poetica: a virtual font project;

Wlodek Bzyl: Literate `plain.tex` source is available!

Bart Childs and Deborah Dunn: Teaching CS/1 courses in a literate manner;

Matthew Swift: Modularity in L^ATeX;

Sebastian Rahtz and Michel Goossens: Another look at L^ATeX-to-SGML conversion.