

TUG90

First Announcement/
Call for Papers

T_EX Users Group
11th Annual Meeting

Texas A&M University
June 18–21, 1990

Forward into the 90s**THE CONFERENCE:**

In 1990, there will be *two* TUG-sponsored T_EX meetings: one in Texas in June, the other in Cork, Ireland in September. The Texas meeting will be held at Texas A&M University June 18–21, 1990 (4 days).

The theme for the Texas meeting will be **FORWARD INTO THE 90s**. We celebrated our 10th Anniversary at Stanford University this past August, amidst announcements of revisions and revitalization in both T_EX and L^AT_EX. As we move into TUG's second decade, T_EX will continue to grow and expand in everyday working situations. The challenge of bringing new users into contact with T_EX, of stretching T_EX and METAFONT to merge and work with old or new procedures, is exciting.

Plan to attend. Better yet: submit a short abstract outlining your own contribution to the new decade. For details, see below.

CALL FOR PAPERS:

Presentations should be approximately 20–25 minutes in length — roughly 6 pages of text, using a 10pt font on a 12pt baseline. Abstracts (no longer than one page) should be submitted as quickly as possible, for the **December 1st** deadline, to the Program Coordinator. Preliminary abstracts may be sent via regular mail, electronic mail, or FAX machine. See address information below.

TOPICS FOR DISCUSSION:

The following list of potential topics is neither inclusive nor exclusive; however, papers addressing T_EX and METAFONT issues for the 1990s would be particularly welcomed. Theoretical analyses and actual experiences dealing with various aspects of T_EX and L^AT_EX, and METAFONT will be considered. Papers will be selected on the basis of clarity, usefulness to either the experienced or the neophyte user, and general interest to the T_EX community.

- How does T_EX do it? — overview of the T_EX process; how T_EX uses all those font files
- T_EX for non-T_EX users: — teaching/training personnel (support staff, students, colleagues); front-end/interface programs; from beginner to expert; documentation — what's available, how to write it; source of information: user groups, courses, bulletin boards, books, etc.
- Integrating T_EX with non-T_EX programs: — graphics; other software
- Fonts: — font design: how to put/pull it together; font compatibility: how to use non-T_EX fonts; font experiences: samples, design histories
- Document design: — theoretical aspects of document design; styles: from technical reports to poetry
- Using T_EX as part of a larger system: — extensions to T_EX; subsets of T_EX
- T_EXnical nuts and bolts: — what are drivers: how do they work, how do they differ, standards; what's portability: how to make things portable; fonts and printers and drivers: making them work together; electronic sources of information: how to find them, use them; suggestions and comments

IMPORTANT DATES:

Abstract	December 1st, 1989
Notification	January 15th, 1990
Preliminary Paper	March 15th, 1990
Presentation at Texas Meeting	June 18–21, 1990
Final Paper	July 15th, 1990

PROGRAM COORDINATOR:

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PROGRAM COMMITTEE:

Shawn Farrell	Regina Girouard	Tom Reid
McGill University	American Mathematical Society	Texas A&M University

T_EX USERS GROUP:

Questions concerning any other aspect of this Meeting or T_EX90 (Cork, Ireland) should be directed to the TUG Office: 401-751-7760 (Eastern Time); electronic mail: tug@math.ams.com; or FAX: 401-751-1071.

5th European T_EX Conference 1990
1st T_EX Users Group Meeting in Europe

Announcement and
Call for Papers

T_EX90

Cork, Ireland — 10–12 September 1990

THE 1990 T_EX meeting in Europe is the fifth such conference organised since 1985. It also breaks new ground as the first to be a T_EX Users Group (TUG) meeting outside North America. The T_EX computer typesetting program is now widely established as the *de facto* standard in scientific, educational and commercial use for the setting of documents requiring very high standards of typographic control, particularly technical documents, and for applications where high quality, portability and device-independence are of importance.

Contributions are now being sought by the programme committee for presentation in September 1990. Papers may present material on a wide range of topics related to (but not limited to) the areas suggested below. Selection will be made on the basis of originality, applicability, utility and interest to the T_EX user community.

Suggested topic list:

- ◊ Document origination, editing and markup
- ◊ Typographic layout and design: aesthetics, practicalities
- ◊ Specialist macros and their applications
- ◊ Database and hypertext and their relationship with T_EX
- ◊ T_EX training and induction: the new user
- ◊ Merging of text and graphics, new symbol sets
- ◊ Font designs and new fonts: their uses and limitations
- ◊ Output devices and drivers, en-T_EXing and de-T_EXing
- ◊ Merging of T_EX with other systems and applications
- ◊ Structure and design of tagged and markup documents
- ◊ Multi-lingual T_EX and the representation of languages
- ◊ Portability: development of new program versions
- ◊ User groups and the dissemination of information
- ◊ Conformity and standards, international and otherwise
- ◊ Novel applications of T_EX, METAFONT etc

Requirements

- ◊ Authors must submit an abstract of one page (or two 80×25 screens) by 1st December 1989, by postal mail, electronic mail or facsimile (fax).
- ◊ **Submissions should be sent in the first instance to the author's national user group if there is one: failing this, to one of the programme coordinators.**
- ◊ Speakers selected will be notified of acceptance by 1st February 1990.
- ◊ Complete texts must be submitted by 1st April 1990: **five copies** are required on paper.
- ◊ Final copies of papers for publication in the proceedings must be submitted by 1st June 1990: **two copies** are required in camera-ready form (details of layout size and formatting will be sent to speakers at the time of notification).

Addresses

Conference Office:

T_EX90 Office
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Programme Coordinators:

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[University College Cork \(cbts8001@vax1.ucc.ie\)](mailto:cbts8001@vax1.ucc.ie)
Dean Guenther (*Programme Co-Chairman*)
[Washington State University \(guenther@wsuvm1.bitnet\)](mailto:guenther@wsuvm1.bitnet)

Organising Committee:

Ray Goucher, T_EX Users Group (reg@seed.ams.com)
Dean Guenther, Washington State University
Peter Flynn, University College Cork
Kees v. d. Laan, Rijksuniversiteit Groningen (cgl@hgrrug5.bitnet)

National User Groups:

DAnTe, Germany	Joachim Lammarsch	Heidelberg University (rz92@dhdurz1.bitnet)
Nordic T _E X UG	Roswitha Graham	KTH Stockholm (roswitha@duvan.nada.kth.se)
NTG, Holland	Johannes Braams	DNL Leidschendam (braams@hlsdn15.bitnet)
GUTenberg, France	Bernard Gaulle	CIRCE Orsay (ucir001@frors31.bitnet)
UKT _E X	Malcolm Clark	Imperial College London (fps@vaxa.cc.imperial.ac.uk)



TEX USERS GROUP
STANFORD UNIVERSITY
STANFORD, CALIFORNIA
AUGUST 20-23, 1989

Reflections

Bart Childs

Ray Goucher requested that I write an article about my four years as President. My first thought was sure, then after thinking about what has happened, I wonder why? I am proud of my service and sincerely appreciative of the opportunities of representing you in a number of activities.

Norman Naugle introduced me to T_EX after I tried to impress him with a word processor that I was supporting. We started an attempt to port T_EX79 to PL/I but dropped it (like the WP) when Don announced that T_EX82 and WEB would be coming. We started the port on version 0.6 and had it working with 0.9. The speed with which T_EX was ported to systems is evidence that WEB is the most overlooked success in computing, even with the *Literate Programming* column in CACM.

My first TUG meeting was 1984. During the 1985 meeting the nominations committee asked Norman to consider a nomination for the Presidency. If you know Norman, you know that he would not, instead, he threw my hat in the ring. It appears that my election came about for two reasons, the (unwritten?) direction that we should have a significant leadership from academia and Don's hopes to have an officer from T_EXas.

I had been to several meetings of the Steering Committee as a Site Coordinator. I recall two things from the last meeting at the '85 meeting. Don welcomed me aboard to the inner circle or some term like that. The other memory is it seemed that our primary topic of discussion was our precarious financial status and how would we declare bankruptcy if it became necessary? While flying back to T_EXas, I began to wonder what I had really gotten into. I did start referring to Norman as my ex-friend.

We quickly became a stable organization, in a fiscal sense. There were several reasons and actions on the part of some T_EXers that caused our improved status. I think that some of the most significant were:

1. The quality of the T_EX systems and the fact that Don put it in the public domain.
2. Wider availability and distribution of T_EX, especially those distributed to large numbers of users by the following who worked closely with TUG and encouraged membership:
 - The *unix* distribution by Pierre MacKay and Rick Furuta.
 - The VMS distribution by Kellerman and Smith.
 - The Personal T_EX distribution of PCT_EX.
 - The Addison-Wesley distribution of MicroT_EX.
 - The generic distribution from DP Services and David Fuchs' public domain change files.
3. Ray Goucher's capable management, spreading the word, seeking every opportunity to find another T_EX publication that we can sell, and aggressive pursuit of teaching T_EX courses and expansion of the offerings, especially at Los Alamos and other labs.
4. Support, sheltering arms and facilities of the American Mathematical Society in helping us start.
5. Many volunteers who contributed so much. It would be a travesty to not name Barbara Beeton and Sam Whidden, who served us so well as Editor and Treasurer, respectively. The organization that was fostered by Richard Palais, Mike Spivak, Pierre MacKay, and many of you, was the basis of this success. Just a few of our heroes have been mentioned. Notice that most are still active in our community. Some have changed where they work, but they are still good volunteers.

In closing, I would like to point out several indications of our maturity.

- We have become a separate legal entity. We still have a good working relationship with AMS and are a customer of theirs.
- We have moved into space of our own by leasing a renovated fire station nearby AMS.
- We supported the finishing of the T_EX project at Stanford.
- We are supporting the moderating of the T_EXhax bulletin board at the University of Washington.
- We subsidized the creation of teaching materials for T_EX and related subjects. This documentation will grow significantly over the next year or so.
- We are supporting the finishing of BIBT_EX by Oren Patashnik. It should be finished in August.
- We are actively pursuing closer involvement with T_EX groups outside North America.
- The 10th TUG meeting will have significant METAFONT and WEB activities.

We generally put TUG finds and/or moral support to use as a supplement to volunteer activities that started an activity. We need to continue pushing for new horizons. Your ideas will be appreciated and volunteers should expect to get used. We have not always succeeded in following through, but the staff that is now in place will make that a rare event in the future.

Thanks for your support and I look forward to being an active worker as Past-President.

T_EX USERS GROUP
Ten Years of T_EX and METAFONT
Stanford University
August 20–23, 1989

Sunday – August 201:00 – 2:00 pm *Registration***Font Forum**

1:30 – 2:00 Introduction to METAFONT – Doug Henderson
 2:00 – 2:30 Opening Pandora's Box – Neenie Billawala
 2:30 – 3:00 Order into Chaos: Typesetting Fractal Images – Alan Hoenig
 3:00 – 3:15 *Break*
 3:15 – 3:45 Design of Oriental Characters with METAFONT – Don Hosenk
 3:45 – 4:15 Thai Languages and METAFONT – Bob Batzinger (Thailand)
 4:15 – 4:45 A METAFONT-like System with PostScript Output – John Hobby
 4:45 – 5:15 Migration from Computer Modern Fonts to Times Fonts – Ralph Youngen,
 Daniel Latternner, and William Woolf
 5:15 – 5:45 Fine Typesetting with T_EX Using Native Autologic Fonts – Arvin Conrad
 7:00 – 10:00 pm *Dinner at the Sino Restaurant*¹

Monday – August 21

7:45 – 9:30 am *Registration*
 8:00 – 8:30 Introduction to T_EX and T_EX Systems (*for New Members*) – Bart Childs and
 Alan Hoenig
 8:30 – 9:00 Introduction to TUG and TUG Officers and Staff

Keynote Address

9:00 – 11:30 The Errors of T_EX – Don Knuth²
 11:30 – 1:00 pm *Lunch*³
 1:00 – 2:30 Elections/Business Meeting
 2:30 – 2:45 *Break*
 2:45 – 3:00 Report from the Driver Standards Committee – Robert McGaffey
 3:00 – 5:00 Output Device Manufacturer/Exhibitor Presentations:⁴
 American Mathematical Society; ArborText; Blue Sky Research; Computer
 Composition Corp.; Gestetner Lasers; Kinch Computer Co.; Micro Publishing
 Systems; Northlake Software; Personal T_EX; T_EXnology, Inc.; T_EXplorators Corp.

Orientation

5:00 – 5:15 Things to do in and around Palo Alto – Ginger Brower
 5:15 – 5:30 *Organization of the Birds-of-a-Feather Sessions for Sites* (DG, CMS, MVS, CDC,
 UNIX, VMS, etc.) to be held during and after the Wine & Cheese
 5:30 – ??? *Wine & Cheese* – hosted by Personal T_EX, Inc.

¹ Reservation required. Formerly known as the China First Restaurant.

² Professor Knuth will be available through out the meeting for questions and to autograph copies of his book series "Computers and Typesetting". (A limited number of copies will be available for purchase at the Registration Desk.)

³ Working lunch for the Board of Directors.

⁴ Representatives are scheduled to be available throughout the meeting. Exhibit rooms will be open from 8:30 am Tuesday until 5:00 pm Wednesday.

An IBM PC and Apple Macintosh is available so that members may exchange software.

(Continued)

Tuesday – August 22**T_EX Training**

- 8:30 – 9:00 am Of the Computer Scientist, by the Computer Scientist, for the Computer Scientist – Michael Doob (Canada)
- 9:00 – 9:30 Mastering T_EX with Templates – Hope Hamilton
- 9:30 – 10:00 T_EX and its Versatility in Office Production – Jo Ann Rattey-Hicks
- 10:00 – 10:30 T_EX for the Word Processing Operator – Robin Kubek
- 10:30 – 10:45 *Break*
- 10:45 – 11:30 Site coordinators' status reports:
VAX (VMS) – David Kellerman; UNIX – Pierre MacKay;
“small” systems – Lance Carnes; IBM VM/CMS – Dean Guenther;
IBM MVS – Craig Platt; Data General & Cray – Bart Childs;
CDC Cyber – Jim Fox; Prime 50 Series – John Crawford.
- 11:30 – 11:45 *10th Anniversary Meeting Group Photograph*
- 11:45 – 1:00 pm *Lunch*¹

General Applications

- 1:00 – 1:30 T_EX in México – Max Díaz (México)
- 1:30 – 2:00 T_EX for 30,000 – James Haskell, Wally Deschene and Alan Stolleis
- 2:00 – 2:30 T_EX Enslaved – Alan Wittbecker

Graphics Applications

- 2:30 – 3:00 Methodologies for Preparing and Integrating PostScript Graphics – Tom Renfrow
- 3:00 – 3:40 T_EXpic – Design and Implementation of a Picture Graphics Language in T_EX à la pic – Rolf Olejniczak (West Germany)
- 3:40 – 4:00 *Break and organization of Topical Birds-of-a-Feather*
(Topics to be decided at this time.)

Database Applications

- 4:00 – 4:30 T_EX at *Mathematical Reviews* – William Woolf and Daniel Latterner
- 4:30 – 5:00 Lexicography with T_EX – Jörgen Pind (Iceland)

General Information

- 5:00 – 5:15 Status of T_EX in Japan – Edgar Cooke (Japan)
- 5:15 – ??? Topical Birds-of-a-Feather sessions (L^AT_EX, graphics, fonts, etc.)
- 6:30 – 7:30 *10th Anniversary “Mexican Fiesta” Dinner* – sponsored by the T_EX Users Group
- 7:30 – ??? *Social Hour/Party Time* – hosted by ArborText

Wednesday – August 23**Help Sessions**

- 8:30 – 9:30 am T_EX Help Session – Barbara Beeton
- 9:30 – 10:15 WEB Help Session – Wayne Sewell
- 10:15 – 10:30 *Break*

General Information

- 10:30 – 11:00 The State of T_EX Users Groups in Europe – Malcolm Clark (England)
- 11:00 – 11:30 The UKT_EX Archive at Aston University – Peter Abbott (England)
- 11:30 – 1:00 pm *Lunch*¹

¹ Working lunch for the Board of Directors.*(Continued)*

T_EX Tools

1:00 - 1:30	With L ^A T _E X into the Nineties - Frank Mittelbach and Rainer Schöpf (Germany)
1:30 - 2:00	T _E Xrecreation - Playing Games with T _E X's Mind - Andrew Greene
2:00 - 2:30	Indexing T _E X's Commands - Bill Cheswick
2:30 - 3:00	A Study in Producing Local Style Files for Letters and Memos - Steve Sydoriak
3:00 - 3:15	<i>Break</i>
3:15 - 3:45	Using WordPerfect 5.0 to Create T _E X and L ^A T _E X Documents - Anita Hoover
" - "	Inserts in Multiple Columns - Gary Benson and Debi Erpenbeck
3:45 - 4:15	T _E X Macros for COBOL Syntax Diagrams - Mary McClure
4:15 - 4:45	Coordinating a Procedural Language and Text Editor to Create an Efficient and Workable PC Interface for T _E X - Brad Halverson and Don Riley
4:45 - 5:00	General wrap-up and closing - Bart Childs et al.

Program Coordinator: Dean Guenther - Washington State University (Pullman, Washington)
 Program Committee: Hope Hamilton - National Center for Atmospheric Research (Boulder, Colorado)
 Doug Henderson - University of California (Berkeley, California)
 Christina Thiele - Carleton University (Ottawa, Ontario)

Program: EuroT_EX89**The 4th European T_EX Conference****Monday, September 12, 1989**

R. Rupprecht and A. Brüggemann-Klein:
 Welcome
 B. Childs: The state of TUG and T_EX
 M. Clark: The state of TUG in Europe
 B. Childs: A report on teaching T_EX

TUG and national user groups [B. Childs and R. Goucher]

J. Lammarsch: La divina comedia
 C.G. van der Laan: Getting organized in the Netherlands

The future of T_EX and L^AT_EX

C.A. Rowley: What Don Knuth said at Stanford
 K. Thull: How to bring up T_EX on a PC
 F. Mittelbach and R. Schoepf: L^AT_EX limitations and how to get around them
 F. Mittelbach and R. Schoepf: With L^AT_EX into the nineties

Tuesday, September 12, 1989

J. Schrod: Changebars without \specials
 K. Neuwirth: T_EX on the Amiga - hands-on experiences
 N. Eiglsperger: A public domain driver for the Digiset typesetter

Foreign T_EX

M. Ryćko: Polish T_EX is ready for use
 B. Jackolowski:
 M. Bryan: JI^AT_EX

Document Structure

M. Clark: T_EX and/or SGML
 A. Brüggemann-Klein: T_EX and document design
 D. Rodgers: Electronic publishing in the nineties

Social event**Wednesday, September 13, 1989****Getting information**

P. Abbott: The UKT_EX Archive at the University of Aston
 J. Lammarsch: Using LISTSERV at DHDURZ1

Fonts and graphics

R. Olejniczak: T_EXpic - design and implementation of a picture graphics language in T_EX
 P.D. Bacsich: MoreMath - a new PostScript font of mathematical symbols
 D. Hosek: Design of oriental characters with METAFONT

T_EX environments

R. Wonneberger: T_EX in an IDP environment
 B. Childs et al.: T_EX environments
 K. Heidrich: Software-design of a complete and comfortable T_EX system
 K. Baer: The use of T_EX at the IKE