TUG 2019 program

(* = presenter)

**Friday**

August 9

8:15 am registration

8:55 am Boris Veytsman, TeX Users Group

Welcome

9:00 am Erik Braun, CTAN

Current state of CTAN

9:30 am Arthur Reutenauer, Uppsala, Sweden

The state of XeLaTeX

10:00 am Frank Mittelbach, lmodern Project

The lmodern “dev” format

10:45 am Frank Mittelbach

Taming UTF-8 in pdfTeX

11:15 am Uwe Ziegenhagen, Cologne, Germany

Combining LATEX with Python

11:45 am Henri Menke, University of Otago

Parsing complex data formats in LuaTeX with LPEG

**Saturday**

August 10

8:55 am announcements

9:00 am Petr Sojka, Ondřej Sojka

The unreasonable effectiveness of pattern generation

9:30 am Arthur Reutenauer

Hyphenation patterns in TeX Live and beyond

10:00 am David Fuchs

What six orders of magnitude of space-time buys you

10:45 am Tomas Rokicki, Palo Alto, CA

Searchable PDFs with Type 3 bitmap fonts

11:15 am Martin Ruckert, Hochschule München

The design of the HINT file format

11:45 am Doug McKenna, Mathemaesthetics, Inc.

An interactive iOS math book using a new TeX interpreter library

12:15 pm lunch

1:30 pm Jennifer Claudio, Sally Ha, Oak Grove H.S.

A brief exploration of artistic elements in lettering

2:30 pm William Adams, Mechanicsburg, PA

Design into 3D: A system for customizable project designs

3:15 pm Boris Veytsman, Sch. Systems Biology, GMU

Creating commented editions with TeX

3:45 pm Behrooz Parhami, UC Santa Barbara

Evolutionary changes in Persian and Arabic scripts to accommodate the printing press, typewriting, and computerized word processing

4:15 pm Amine Anane, Montréal, QC

Arabic typesetting using a Metafont-based dynamic font

4:45 pm Takuto Asakura, National Institute of Informatics, Japan

A TeX-oriented research topic: Synthetic analysis on mathematical expressions and natural language

5:15 pm Herb Schulz, Naperville, IL

Optional workshop: TeXShop tips & tricks

6:30 pm banquet

**Sunday**

August 11

8:55 am announcements

9:00 am Antoine Bossard, Kanagawa University

A glance at CJK support with XeTeX and LuaTeX

9:30 am Jaeyoung Choi, Saima Majeed, Ammar Ul Hassan, Geumho Jeon, Soongsil Univ.

FreeType MF Module 2: Integration of METAFONT and TeX-oriented bitmap fonts inside FreeType

10:00 am Jennifer Claudio, Emily Park, Oak Grove H.S.

Improving Hangul to English translation

10:45 am Rishikesh Nair T*, Rajagopal C.V., Radhakrishnan C.V.

TeXFolio—a framework to typeset XML documents using TeX

11:15 am Sree Harsha Ramesh, Dung Thai, Boris Veytsman*, Andrew McCallum, UMass-Amherst, (*) Chan Zuckerberg Initiative

BinTeX-based dataset generation for training citation parsers

11:45 am Didier Verna, EPITA

Quickref: A stress test for Texinfo

12:15 pm lunch

1:30 pm Uwe Ziegenhagen

Creating and automating exams with LATEX & friends

2:00 pm Yusuke Terada, Tokyo Educational Institute

Construction of a digital exam grading system using TeX

2:30 pm Chris Rowley*, Ulrike Fischer, lmodern Project

Accessibility in the LATEX kernel—experiments in tagged PDF

3:00 pm break

3:15 pm Ross Moore, Macquarie Univ.

LATEX 508—creating accessible PDFs