Speakers' Schedule

Forth Day 2013

Brought to you by SVFIG

November 16 - Third Saturday

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Google+ Hangout

SVFIG will participate in a Google+ Hangout on Forth Day.The YouTube video stream should let everybody join in, while questions and comments can either be posted on Google or emailed to the SVFIG email list. When it is started, the URL for the video stream will be posted on the Hangout page and emailed to members of the SVFIG list. Material with intellectual property conflicts will not be streamed.

A subscription to Google+ is not required to view the video.

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SVFIG meets on the fourth Saturday of each month this year with the following exception:

> December – meeting will be held on the third Saturday

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If you are planning to attend the meeting, please register on Meetup.com. If you are not planning to attend, there is no need to register.

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NOTES FOR FIRST-TIME ATTENDEES:

0) Some SVFIG's meeting topics may not pertain directly to Forth. You are welcome to skip the parts which don't interest you!

1) Print a map so you can find the building easily. If you get lost, call Kevin Appert at 650/678-0532

2) Browse the [additional online information](#).

3) The suggested parking lot is near the intersection of [Santa Teresa Street and Lomita Drive.](#) You may park in any "A" or "C" designated areas. There is no need to feed the meter on the weekends. Do NOT park in any place marked with 24/7 restrictions! Most other places are okay on Saturdays. **When in doubt, read the signs!**

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*** Computer Free Cycle, For Sale, Rummage, Disposal ***

Bring your used computer and other electronic items to donate or sell at the meeting. You must be prepared to remove items that can be given away, sold, or disposed of as NOTHING can be left behind at the end of the day.

There is a SMALL electronics (cell phones, calculators, PDAs, and items of similar size) recycling bucket in the building as well as a battery recycling bucket for conventional household battery chemistry ONLY. No Hydrogen Peroxide fuel cells or Dilithium Crystals.

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This page is for the Speakers' Schedule and coming attractions only. Other meeting details will be sent in an SVFIG email announcement and posted [online](#).

Links, PowerPoint slides, PDFs, meeting videos, and source files from previous months' meetings are posted on the [SVFIG website](#).

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8:30 --- Coffee and a Chat

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9:00 --- Chairman's Welcome --- [George Perry](#)

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9:05 --- Implementing APL concepts in Forth -- Bob Armstrong
While Forth implements an extensible dictionary, APL provides arguably the most expressive vocabulary for implementing complex algorithms. [4th.CoSy](#) is working to implement a concise APL-informed vocabulary acting on dynamic recursive list structures in [Reva Forth](#).

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9:40 --- Gforth for eCOS --- John E. Harbold
John will give a give an update on his effort to port Gforth to the eCos platform. [eCos](#)

is an embedded configurable operating system which is open source, POSIX-compliant, real-time, and multi-threaded with a choice of scheduler.

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10:00 --- Cortex-M4 SwiftX --- Leon Wagner

We'll learn about flash-resident SwiftX programming on the Atmel SAM4S series. Establishing a fast coding and testing development cycle on an embedded microcontroller with a flash-resident program requires an optimized flash loader. Leon will show the difference between the traditional Atmel Studio approach and the Forth approach. Leon's appearance is currently tentative as it may be canceled due to other commitments.

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10:30 --- Break & The LED Cube --- CH Ting

Ting will demo his Forth-driven LED cube on a side table.

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10:40 --- 64-bit Standalone Forth System --- Stefan Mauerhofer

FLOS is a 64-bit Forth project that runs directly on the PC without an operating system. It takes advantage of the 64-bit capabilities of modern Intel-based microprocessors and employs indirect threaded code for the inner interpreter with a polyForth-like tasking model. Careful use of the memory management unit allows efficient stack and heap management. In this project, Forth is used more as a philosophy rather than a standard. The language is extended with namespaces, a graphical user interface, and object-oriented programming to support large software projects. The presentation will give a brief introduction to the language and the system. The project is still in its infancy, but a running prototype will be presented.

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11:15 --- Simple Scalable Fonts in Forth --- Brad Nelson

How small can code to generate a useful scalable font be? Brad will explore cramming a scalable anti-aliased font into a few Forth blocks.

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11:30 --- The Flight of the Kestrel II --- Samuel A. Falvo II

Sam will describe the final hardware design of the Kestrel-2 personal computer and tell us where he's headed.

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12:00 --- Lunch

Catering by CH Ting, a Forth Day tradition!

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13:30 --- [GreenArrays](#)
   The afternoon session will be devoted entirely to GreenArrays and their parallel processing Forth chips. They will begin with a short briefing on the progress of GreenArrays in the past year and then provide a glimpse of their plans for the company's future. GreenArrays engineers and partners will discuss the chips and their applications, presenting high-level strategies for choreographing the work of teams of computers in a variety of applications as well as some insight into lessons learned while implementing them.

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16:00 --- Fireside Chat --- [Chuck Moore](#)
   Almost every year since the early days of FIG, Chuck has held forth on our favorite programming language.

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17:00 --- Clean Up and Adjourn

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17:45 --- Dinner --- Venue TBD

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   Do we try to stick to the schedule? Yes, most of the time. On Forth Day, we're pretty serious about it, but stuff still happens. But, sometimes a presentation runs a little long and once in a while we shuffle things around. If you're desperate to see a particular presentation at a particular time, please mention it and we'll try to accommodate you.
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   The schedule above may be reformatted or line-justified, but please transmit verbatim or not at all. A link to this page is preferred.
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   No Newsgroup posts or other media distribution please!
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   This schedule document is produced by Kevin Appert, the SVFIG Program Chair. It is distinct from the SVFIG and FIG websites which are produced by the SVFIG Webmaster, Dave Jaffe. Comments and corrections are always welcome.