

Speakers' Schedule

April SVFIG Meeting

The Fourth Saturday
27-April-2013



Google+ Hangout

We will participate in a Google+ Hangout. 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. (If you are not subscribed to the SVFIG email list, send an email to: forther-at-comcast-dot-net)

Here is a link to the [SVFIG Hangout page](#)

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

May – no meeting, SVFIG will man tables at the Maker Faire (May 18th & 19th)
June, November, and December – meetings are on the third Saturday

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If you are planning to attend, please go to Meetup.com and register for the meeting. There is no need to register if you are not attending.

NOTES FOR FIRST-TIME ATTENDEES:

- 0) Some of this month's meeting topics do 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) Look at the [additional online information](#).
- 3) Suggested parking is in the small lot near the intersection of [Santa Teresa St and Lomita Dr](#). 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. **Read the signs!**

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This page is for the schedule and coming attractions only, other meeting details will be included in the email announcement and will be posted online [here](#).

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

Speakers' Schedule

9:45 --- Coffee and a Chat

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10:00 --- Forth Instructions per Cycle > 1 --- Alexey Chapyzenka

Alexey will present his findings and discuss: Forth processors with FIPC > 1 (Forth Instructions per Cycle), instruction bundling, encoding, decoding, and execution.

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10:30 --- Registers as Stack Cache and Its Implications --- Samuel A. Falvo II

"Topics I'd like to cover include (in no particular order):

1. Proposed Basic Algorithm
2. Benefits (stack manipulation words generally produce `_zero_` code, frequent operations like `+ @` reduce to CPU-supported addressing modes).
3. Disadvantages (basic block boundaries needs to fix up stack image in RAM).
4. Example output: 6502, 80386, Data General Nova
5. Compiler Implementation Issues (expectation stacks, code backtracking and rewriting, strict interfaces between compiler and code generator, etc.)
6. Extensions to the concept: instruction scheduling as a separate pass to exploit superscalar architectures, optional static type checking, etc."

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11:30 --- eP32 Stacks --- [Chen Hanson Ting](#)

"I can talk a little bit about the stacks in eP32."

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11:45 --- Lunch

We'll walk to the [Treehouse](#) for lunch.

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13:00 --- Introductions, Announcements, Rumors, and Gossip

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13:10 --- Stacks to Variables inside Graphical Haiku Forth --- Brad Nelson

To squeeze greater performance out of Javascript and to support WebGL, Graphical Haiku Forth converts stack operations to variables. Brad will examine the method used in the current implementation and discuss its properties and limitations. Recent and coming enhancements to Haiku Forth will be discussed.

<http://forthsalon.appspot.com/>

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14:10 --- Break

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14:25 --- Review of Cool Product Expo & Robot Block Party --- [Dave Jaffe](#)

Dave will review the product offerings at the recent Cool Product Expo and show some video from the annual Robot Block Party – both Stanford events.

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We'll say goodbye to our Google+ Hangout friends at this point. The rest of the meeting will be purely local. See you in June (third Saturday)!

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14:45 --- Design West 2013 --- All present

The annual Embedded Systems Conference is now called Design West, held this past week at the San Jose Convention Center. We'll talk about what we saw and where the industry is headed.

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15:00 --- Maker Faire Discussion --- [Chen Hanson Ting](#)

Ting wrote: "At the Faire, I will show a few simple tutorials and demos, basically for young people to use Forth on the Arduino. Let's determine what we need to take to the Faire."

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15:20 --- Eternal Sorrow & Schubert --- [Chen Hanson Ting](#)

"I have reworked the video on Eternal Sorrow, based on a poem by Pai Ju-yi and songs by Schubert (Winterreise). It was actually sung in Chinese. I trimmed it down to about 40 minutes and added English subtitles to the existing Chinese subtitles."

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Random Access

Impromptu talks, amiable ambling discussions, sauntering through <news:comp.lang.forth> and other conversations will be offered for your amusement in the interstices if any.

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15:55 --- Clean Up

16:00 --- Adjourn

Do we try to stick to the schedule? Yes, most of the time. Sometimes somebody runs a little long. Once in a while we shuffle things around. If you're desperate to see a particular thing at a particular time please mention it and we'll try to accommodate you.

The above schedule may be reformatted or line-justified, but please transmit it verbatim or not at all. A link to this page is preferred.

No Newsgroup posts or other media distribution please!

The Speakers' Schedule 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. His work is more carefully done and is of better quality, but the monthly announcement has its own rustic charm. Corrections and other comments are welcome.

