## *Silicon Valley Chapter of the Forth Interest Group*

### More SVFIG on the Web

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SVFIG information (The Next Meeting, Past meeting announcements, Contact information, How to join, Other Meetings, and Websites) is now available at http://forth.org/fig/svfig/svfig.html .

**Meeting Agenda for Saturday, 1998 Jan 24**
**at**

## Cogswell College

### 1175 Bordeaux Dr, Sunnyvale, California

**09:45  Coffee and Donuts**

**10:00  21st Century Forth Visions -** *lead by John Carpenter*
A blue sky discussion by all attendees about what Forth should be like in the future to make it uniquely beneficial to solving software problems. John's idea of environmental fuzzy interpretation will be used to catalyze the discussion as well as answering the question as to what are the features and applications of yet another interpreter that would make it the Forth interpreter that should be standardized for its richness in tools.

**12:00  Lunch**    Pizza? or subs from Togos? and Glen Haydon's Brown Bag Tutorial. Bring your forth problem to Glen and he will organize the tutorial accordingly.

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

**13:30  More on the ADSP2100 Forth -** *Dwight Elvey*
The compiler is working quite well in the test stage without optimization and by the time of the talk, there will be an optimization capability. Unoptimized comparisons are made with a 1k sort algorithm that ran in 19.1 ms on the 4MHz NC4000 and now runs on the 33MHz 2181 in 8.7 ms.

**14:30  Break**

**15:00  Stiquito -** *John Rible*
Anyone want to build a little Forth walky robot bug? John will talk about a kit for this.

**16:00  Adjournment**
Post meeting "tea" at a Mt. View coffee house or somewhere is possible - if it is too early for dinner. "Wierd Stuff" is not too far away; most months, a few bargain/oddity hunters gather there after our meetings.

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**North Bay FIG**

**Meets on the second Saturday of each month at 2055 Center Street, Berkeley.**

**Contact Leonard Morgenstern at 510-376-5241, or  Email: nleonard@aol.com**

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## Meeting Agenda for Saturday, 1998 Feb 28

**at**

## Cogswell College

### 1175 Bordeaux Dr, Sunnyvale, California

**09:45  Coffee and Donuts**

**10:00  Revising eForth —** *C.H. Ting*

Ting will use the morning session to discuss the advantages and disadvantages of various threading models and implementations. His subroutine threaded model may be working before the meeting and he would then be able to show some benchmarks and maybe formally release it as 8051 eForth version 2.01.It will probably speed up the 8051 eForth by a factor of 5 if not more.

**12:00  Lunch**    Pizza? or subs from Togos? and Glen Haydon's Brown Bag Tutorial. Bring your forth problem to Glen and he will organize the tutorial accordingly.

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

**13:30  Tutorial on eForth Data Structures —** *John Rible*

John will describe the how and why eForth implements even the simplest data structures in high level Forth rather than in machine code.

**14:30  Break**

**15:00  Open Floor** — anyone who has something about Forth to talk about

**16:00  Adjournment**

Post meeting "tea" at a Mountain View coffee house or somewhere else is possible — if it is too early for dinner. "Wierd Stuff" is not too far away; most months, a few bargain/oddity hunters gather there after our meetings.

# Meeting Agenda for Saturday, 1998 Mar 28

## at

## Cogswell College

### 1175 Bordeaux Dr, Sunnyvale, California

**09:45**  **Coffee and Donuts**

**10:00**  **Token Threaded eForth —** *C.H. Ting*

The goal is to reduce the eForth size to 4k so that it will fit into an 8751 chip. This effort will probably result in a Forth Stamp

**12:00**  **Lunch**   Pizza? or subs from Togos? and Glen Haydon's Brown Bag Tutorial. Bring your forth problem to Glen and he will organize the tutorial accordingly.

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

**13:30**  **Bit Hashed Pattern Matching —** *Paul Snyder*

This is a space saving sort of pattern matching used in spell checkers and the like. This was written in FPC from a technique used in a spell checker written by John James. (Note: If Paul cannot attend, this presentation will be made for him by John Carpenter.)

**14:30**  **Break**

**15:00**  **Diskless Linux as a Prelude to a Forth-OS -** *Skip Carter*

Skip has built a disk-less Linux system that uses a boot-ROM that he installed on a network card. He is not running a Forth-OS yet, but the concepts might prove to be useful for anybody who wants to try a pure Forth-OS.

**16:00**  **Adjournment**

Post meeting "tea" at a Mountain View coffee house or somewhere else is possible — if it is too early for dinner. "Wierd Stuff" is not too far away; most months, a few bargain/oddity hunters gather there after our meetings.

**Next Business Meeting:** Monday, 1998 April 06, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

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# Meeting Agenda for Saturday, 1998 Apr 25

## at

## Cogswell College

### 1175 Bordeaux Dr, Sunnyvale, California

**09:45**  **Coffee and Donuts**

**10:00**  **How to Drive a Robotic Arm —** *C. H. Ting*

Ting will talk about how to control a robot arm with stepper motors. Topics will include acceleration and deceleration, coordination of arm and wrist motors, multitasking, and host computer interface. Much of the code was developed on a microcontroller-based system using Philips' 16-bit 80C51XA chip. The eForth model was greatly enhanced and optimized for this fairly-advanced system.

**12:00**  **Lunch**   Pizza? or subs from Togos? and Glen Haydon's Brown Bag Tutorial. Bring your forth problem to Glen and he will organize the tutorial accordingly.

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

**13:30**  **OS/Forth —** *Chris Passauer*

Chris calls this "The complete operating system for real people". The tenet being: Forth, when used to implement — and be — an Operating System, can displace all other current offerings of (Microsoft, OS/2 and UNIX based) OSs on the PC/Intel single-user desktop platform.

**14:30**  **Break**

**15:00**  **Open Floor** — anyone who has something about Forth to talk about

**16:00**  **Adjournment**  Post meeting "tea" at a Mountain View coffee house or somewhere else is possible — if it is too early for dinner. "Wierd Stuff" is not too far away; most months, a few bargain/oddity hunters gather there after our meetings.

**Next Business Meeting:** Monday, 1998 May 04, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

**NOTE: THE NEXT MEETING WILL BE ON MEMORIAL DAY WEEKEND!**

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# Meeting Agenda for Saturday, 1998 May 23
## (Memorial-Day Weekend) at
# Cogswell College
### 1175 Bordeaux Dr, Sunnyvale, California

**09:45**    **Coffee and Donuts**

**10:00**    **ForthOS Workshop —** *Chris Passauer* **and** *Alan Furman* **leading**

This is first of many workshops, perhaps, for the development of the operating system based on Forth. Ting will set the foundation with what the boot PROM needs to be like. The importance of this is that it can ultimately serve as a better Java Operating System by simply building in a JVM as a default, as there is a redundancy between Java bytecode primitives and Forth word primitives.

**12:00**    **Lunch**    Pizza? or subs from Togos? and Glen Haydon's Brown Bag Tutorial. Bring your forth problem to Glen and he will organize the tutorial accordingly.

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

**13:30**    **The Smallest eForth, Less than 4K Bytes! —** *C.H. Ting*

Ting had successfully shoehorned an eForth into the 4K byte memory of an 8051. He will demonstrate this system and talk about how to port it to other small microprocessors. A Forth-Stamp is becoming a reality.

**14:30**    **Break**

**15:00**    **Open Floor** — anyone who has something about Forth to talk about

**16:00**    **Adjournment**

Post meeting "tea" at a Mountain View coffee house or somewhere else is possible — if it is too early for dinner. "Wierd Stuff" is not too far away; most months, a few bargain/oddity hunters gather there after our meetings.

**Next Business Meeting:** Monday, 1998 June 08, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

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# Meeting Agenda for Saturday, 1998 Jun 27
### at
# Cogswell College
### 1175 Bordeaux Dr, Sunnyvale, California

**09:45**    **Coffee and Donuts**

**10:00**    **More ForthOS Workshop -** *Chris Passauer and others*

ForthOS can be a lean, mean, and fast operating system that should please anyone as confidence is gained in the graphical user interface: much better than LINUX, perhaps like WinNT only. An expanded HTML interface to the ForthOS is a discussion possibility..

**12:00**    **Lunch**    Pizza? or subs from Togos? and *Glen Haydon's* Brown Bag Tutorial. Bring your forth problem to Glen and he will organize the tutorial accordingly.

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

**13:30**    **Is Forth Already Object Oriented? -** *John Carpenter*

By comparing an example program written in Java and pseudo Forth, methods can be identified to make Forth fully object oriented by simply using a Java style of programming

**14:30**    **Break**

**15:00**    **Open Floor** — anyone who has something about Forth to talk about

**16:00**    **Adjournment** Post meeting "tea" at a Mountain View coffee house or somewhere else is possible — if it is too early for dinner. "Wierd Stuff" is not too far away; most months, a few bargain/oddity hunters gather there after our meetings.

**Next Business Meeting:** Monday, 1998 July 06, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

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# Meeting Agenda for Saturday, 1998 Jul 25
## at
# Cogswell College

### 1175 Bordeaux Dr, Sunnyvale, California

**09:45**  **Coffee and Donuts**

**10:00**  **Ladder Logic -** *John Bumgarner*

Used by industry to emulate old relay and coil and contact logic system, a modern graphical programming language called Ladder Logic has been developed. John will describe the features of this language to us.

**12:00**  **Lunch   Barbeque by** *Ting*          Bring your appetite!

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

**13:30**  **Rochester Review -** *a panel of those who attended*

The meeting last June is expected to be the last to be held in Rochester. Nevertheless, vendors have made their presence known in an impressive manner.

**14:30**  **Break**

**15:00**  **Multiprocessing -** *CH Ting*

All about hooking up a bunch of Forth computers together and therefore building a network without any work.

**16:00**  **Adjournment**

Post meeting "tea" at a Mountain View coffee house or somewhere else is possible. "Wierd Stuff" is not too far away; most months, a few bargain/oddity hunters gather there after our meetings.

**Next Business Meeting:** Monday, 1998 Aug 03, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

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# Meeting Agenda for Saturday, 1998 Aug 22
## at
# Cogswell College

### 1175 Bordeaux Dr, Sunnyvale, California

**09:45**  **Coffee and Donuts**

**10:00**  **The PSC1000, a Java Machine -** *George Shaw*

George will talk about what went into the Java based version of the Shboom chip. There will be a demonstration of the chip performance and how it handles Java and the JavaOS.

**12:00**  **Lunch**   Pizza? or subs from Togos? and Glen Haydon's Brown Bag Tutorial. Bring your forth problem to Glen and he will organize the tutorial accordingly.

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

**13:30**  **Firmware in Detail for the iMac-** *John Hall*

Examples are given for the firmware in Apple's latest products which, for example, support CD and DVD drives.  What went on in the development of the iMac open firmware will be featured.

**14:30**  **Break**

**15:00**  **Forth Programmers Handbook -** *Doug Hammed*

Doug will give a report about the value of the new handbook recently published by Forth, Inc. which provides an experienced programmer a good reference to ANSI and various other dialects of Forth.

**16:00**  **Adjournment**

**Next Business Meeting:** Monday, 1998 *AUGUST 31*, at 19:00. NOTE THAT THE USUAL MONDAY WILL LIE ON LABOR DAY!!! THEREFORE THE MEETING IS BEING SCHEDULED A WEEK EARLIER!!! Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

## *Silicon Valley Chapter of the Forth Interest Group*

# Meeting Agenda for Saturday, 1998 Sep 26
## at
## Cogswell College
### 1175 Bordeaux Dr, Sunnyvale, California

As the August meeting had to be relocated to Ting's home because Cogswell College was closed, two speakers scheduled at that time consented to be rescheduled for September. The agenda is as follows:

**09:45 Coffee and Donuts**

**10:00 The PSC1000, a Java Machine -** *George Shaw*
George will discuss the Java based version of the Shboom chip and demonstrate the chip's performance and how it handles Java and the JavaOS

**12:00 Lunch** Pizza? or subs from Togos? and Glen Haydon's Brown Bag Tutorial. Bring your forth problem to Glen and he will organize the tutorial accordingly.

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

**13:30 iMAC Firmware in Detail -** *John Hall*
John will discuss the firmware in Apple's latest products which support CD and DVD drives. The development of the iMac open firmware will be featured.

**14:30 Break**

**15:00 A Binary Keyboard to Play Binary Music -** *C.H. Ting*
Dr Ting proposes a keyboard with 16 even tempered note intervals per octave; a hex on classical composition. He will demonstrate some Bach organ pieces with this scale.

**16:00 Adjournment**

Post meeting "tea" at a Mountain View coffee house or somewhere else is possible — if it is too early for dinner. "Wierd Stuff" is not too far away; most months, a few bargain/oddity hunters gather there after our meetings.

**Next Business Meeting:** Monday, 1998 Oct 05, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

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## *Silicon Valley Chapter of the Forth Interest Group*

# Meeting Agenda for Saturday, 1998 Oct 24
## at
## Cogswell College
### 1175 Bordeaux Dr, Sunnyvale, California

**09:45 Coffee and Donuts**

**10:00 Music on an Hexadecimal Keyboard -** *CH Ting*
Ting will show the keyboard and will invite anybody to play it and make some musical sense out of it.

**12:00 Lunch** Pizza? or subs from Togos? and Glen Haydon's Brown Bag Tutorial. Bring your forth problem to Glen and he will organize the tutorial accordingly.

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

**13:30 My AMS'98 Talk -** *John Carpenter*
I programmed a micro-arrayer in Forth which can spot 40,000 samples of DNA onto each of up to 48 slides. I will present viewfoils of my talk from the Automated Mapping and Sequencing conference held earlier this month at Washington University in St Louis, Missouri.

**14:30 Break**

**15:00 Forth Day Planning Session - all who are interested in getting involved**
(Special Business Meeting) Those with ideas for the Forth Day agenda who would like to get more involved in planning that event are invited to attend. Forth Day is on Saturday, 1998 November 14, so this session is needed to tie up the loose ends.

**16:00 Adjournment**

Post meeting "tea" at a Mountain View coffee house or somewhere else is possible — if it is too early for dinner. "Wierd Stuff" is not too far away; most months, a few bargain/oddity hunters gather there after our meetings.

## *Silicon Valley Chapter of the Forth Interest Group*

# Meeting Agenda for Saturday, 1998 Nov 14
at
## Cogswell College
### 1175 Bordeaux Dr, Sunnyvale, California

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* **F O R T H   D A Y** \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The meeting fee for this event is 5 dollars

**09:45   Coffee and Donuts**

**All day**       \*\*\*\*\*\*\*\*\*\*\*\*Computer and so forth swap meet\*\*\*\*\*\*\*\*\*\*\*\*\*
        \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Vendors' Tables\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*
         In the break room near our meeting room.

**10:00   First Session**   First set of 15 minute talks.
    Wil Baden - Easy OOP
    John Rible - SQ4 Hybrid Stack RISC Architecture
    David Jaffe - Wearable Data Acquisition System
    Skip Carter - (topic to be announced)
    (other talks to be announced)

**12:00   Barbeque by Ting**. Ting will provide the essentials. Others may, if they wish, may bring enhancements such as chili, desert, etc.
    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Programming Challenge\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*
    Get Ting's light pen, mounted on a computer controllable turret, to project a Figure-8 on a wall. This will be held in the meeting room during lunch.
    \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**13:00   Second Session**   Second set of 15 minute talks.
    Len Morgenstern - (topic to be announced)
    Bill Ragsdale - (topic to be announced)
    (other talks to be announced - especially from those who have been involved in the early days of FIG)

**14:30   Break**

**15:00   Chuck's Hour** — the thoughts of Charles Moore by the man himself.

**16:00   Adjournment** Adjourn to the bar near the Hong Seng Restaurant

**18:00   Dinner at the Hong Seng Restaurant** The cost will be shared by those dining. The restaurant is located on Lawrence Expressway in Sunnyvale. Directions will be given at the meeting.

**Next Business Meeting:** Monday, 1998 Nov 30, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.

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## *Silicon Valley Chapter of the Forth Interest Group*

# Meeting Agenda for Saturday, 1998 Dec 19
at
## Cogswell College
### 1175 Bordeaux Dr, Sunnyvale, California

**09:45   Coffee and Donuts**

**10:00   Genetic Algorithm Design Process – *Jet Thomas***

This is in Forth. An example, "The Rectilinear Steiner Tree" problem, will be presented.

**12:00   Lunch**   Pizza? or subs from Togos? and Glen Haydon's Brown Bag Tutorial. Bring your forth problem to Glen and he will organize the tutorial accordingly.

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

**13:30   P16 Microprocessor in a Xilinx XC4005XL FPGA Chip – *C.H. Ting***

Ting will report on the progress of implementing P16 design on this FPGA. Using the RAM cells, it is possible to make two stacks that are 16 levels deep, thus making it possible to run eForth on this chip.

**14:30   Break**

**15:00   What Happened at FORML20? - *John Rible*** will chair a panel of those who have attended

**16:00   Adjournment**

Post meeting "tea" at a Mountain View coffee house or somewhere else is possible — if it is too early for dinner. "Wierd Stuff" is not too far away; most months, a few bargain/oddity hunters gather there after our meetings.

**Next Business Meeting:** Monday, 1999 Jan 04, at 19:00. Those with ideas for the next meeting agenda and those who would like to get more involved in the general meeting process are invited to attend. The business meeting location is the Jack's Pizza on 2nd, ½ block west of "B" in San Mateo.