

SFAMI

Newsletter

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Executive Officers 2007

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What's New in the Second Edition Of the SFAMI News- letter!

In this issue you will find Chairperson Sheaks address to the membership on her vision and thoughts on the convergence of Health IT and Biomedical, HL7 and a few surprises. Also news about past meeting of SFAMI under the SFAMI Events column.

New features are the Biomed Grapevine, a crossword puzzle and a few web picks for your edification.

And last but not least some network commands you may find helpful in the **BIOMED IT TOOL-BOX** see below

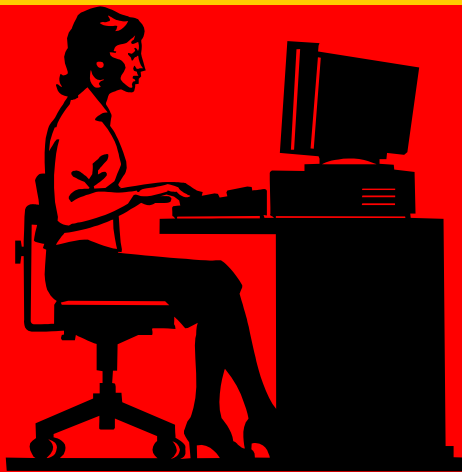
ABOUT IPCONFIG

Ipcfg is a DOS utility which can be used from MS-DOS and a MS-DOS shell to display the network settings currently assigned and given by a network. This command can be utilized to verify a network connection as well as to verify your network settings.

SYNTAX

```
ipconfig [/? | /all | /release [adapter] | /renew [adapter] | /flushdns | /registerdns | /showclassid adapter | /setclassid adapter [classidtoreset] ]
```

/all	Display full configuration information.
/release	Release the IP address for the specified adapter.
/renew	Renew the IP address for the specified adapter.
/flushdns	Purges the DNS Resolver cache.
/registerdns	Refreshes all DHCP leases and re-registers DNS names
/displaydns	Display the contents of the DNS Resolver Cache.
/showclassid	Displays all the dhcp class IDs allowed for adapter.
/setclassid	Modifies the dhcp class id.



SFAMI EVENTS

Message From the Chairperson:

I hope everyone had a good spring break. One of my major focuses this year is what I feel is in our imminent future. The convergence of Biomed and Healthcare IT. I think we need to come to terms with that thought and forge ahead. If not, I fear we will be lost in the shuffle. Have you heard of HIMSS? They are the Healthcare Information and Management Systems society. They have been primarily an IT society in the past. They have several special interest groups that are very interesting. One is the CE & IT Convergence SIG. They have recognized the need for communication on the subject. I have spoken to several Clinical Engineering members of the society and I am working on getting someone to come and talk at one of our meetings. Have you heard of HL7? This is Health Level 7. "Applications used by health organizations that have adopted the HL7 messaging standard can communicate to each other-even when they speak different languages." This coming from an article written by Dave Shaver for Radiology Today. Here are the 7 standards:

1. Physical: Connects the entity to the transmission media.
2. Data Link: Provides error control between adjacent nodes.
3. Network: Routes the information in the net-

February 2007 SFAMI meeting was held at Weston Regional Health Park, on Wednesday February 28th, 2007 . The Technical presentation was on "The changes in Medication Delivery" (smart pump technologies) . The speaker for the Technical presentation was Kristin Miller RN, BSN of Hospira Worldwide, Inc. this was a great presentation that was well received by all .

March meeting of SFAMI was held at Weston Regional Health Park, Thursday March 29, 2007 at 5:30 pm Our Technical presentation was on Vocera and other VoIP systems hosted by Rene' Zipper of Hil-Rom Corp. It was a great introduction to the many sides of this up and coming information technology. Many tools for alarm management to give patients better response times.

Aprils meeting will be Held on April 25,2007 at Broward General medical Center 1600 South Andrews Ave, Fort Lauderdale. The topic will be "Equipment Acquisition: How Clinical Engineering Can Help—A Vendor's Perspective. The speaker will be Otho Boone, president of Neoforce. Your host will be Frederick McMurtrie from the North Broward Hospital District. We look forward to see you all. Bring a new member.

PLEASE, SET YOUR CALENDER TO REFLECT MEETINGS. HOPE TO SEE YOU THERE!

work.

4. Transport: Provides end to end communication control.
5. Session: Handles problems that are not communication issues.
6. Presentation: Converts the information.
7. Application: Provides different services to the applications.

Still wondering how this all effects you? This all comes together in the Electronic Health Record. The transferring of critical information into an electronic file. This will include patient data such as vital signs, lab results, imaging, etc. The patient monitoring systems will be interfaced and have the information entered into the EHR. This is where there will be an important working relationship with Biomed and IT. This standard was created to interface between healthcare applications and vendors to reduce the need for costly custom interface programming. I think we need to educate ourselves and be ready when asked instead of sitting by thinking it will never happen. We need to take control of our destiny and stay informed.

I watched an interesting news story the other night about a temporary total artificial heart. I copied the following from their website.

"The design of the CardioWest™ temporary Total Artificial Heart (TAH-t) is a technological marvel, yet the heart is elegantly simple in appearance. The size and shape of the artificial heart is designed to fit in the space of the removed diseased ventricles. The device fits in a majority of adults and some larger adolescents. The CardioWest TAH-t utilizes a partial fill and full eject mechanism. As patients exercise, their muscles and blood vessels contract causing more blood to fill the ventricles which is then fully ejected with each artificial heart beat. The TAH-t is able to pump high volumes of blood (up to 9.5 Liters per minute) safely through the body while minimizing contact with non-

human surfaces. These design features combined with state of the art surgical and anticoagulation regimens have resulted in good outcomes and have minimized complications.

In a pivotal clinical study (NEJM 2004; 351: 859-867), these patients were successfully transplanted 79% of the time. One-year and five-year survival rates after heart transplant among these patients were 86 and 64 percent."

The link to the story on channel 7 is: <http://www1.wsvn.com/features/articles/medicalreports/MI44364/>. You can click on watch the video and see the broadcast. The link to the manufacturer of the heart is: <http://www.syncardia.com/cardiowesttaht/index.php>.

Starting with the next newsletter we will be featuring one outstanding industry representative per quarter. We have chosen Mr. Harvey Jackson to start things off. Please let me know if you have anything you would like to say about Mr. Jackson that can be added to the newsletter. Maybe a funny story or just a comment. While we have chosen the representative for the next quarter, I would like to get recommendations for upcoming newsletters. Do you know someone that has been a supporter of our field? Please send me your recommendations and we will take it from there.

Another feature I will be adding is some type of entertainment. This month it is a crossword puzzle. Just something to take your mind away from the everyday grind and do something fun.

Hope to see you at the next meeting!!

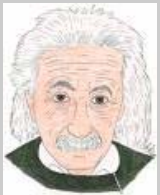
Robin Sheaks

Chair

The Biomed Grapevine:



GE Healthcare has announced it will start charging for telephone technical support. (have your PO number or credit card in hand) How this will work is still unclear, but one thing is for sure it will definitely create debate around the biomed community. Many are already talking about boycotting GE Healthcare products. Time will tell? Please, Provide feedback to GE and let the SFAMI board know how you feel. It maybe possible to bring your thoughts on the matter to their attention in a unified manner.



Because you want to Know.

Our Web Pick for this Quarter is the following: "Physics for Future Presidents" by Professor Richard A. Muller at UC Berkeley. In this series of 26 lectures Professor Muller offers you great insight into to the world of physics in a real down to earth way. You will find it entertaining and rich with facts from Atoms to Quantum plus a really good explanation of the MRI and PET scanner operation. What is more is that this Gem is FREE that's right go to Google.com videos enter physics 10 in the search field and away you go.

Using ipconfig

[Continued from page](#)

To use **ipconfig**, simply open a Command Prompt window and enter "ipconfig". When you do, Windows NT will display a summary of each network adapter installed in your system, along with its TCP/IP configuration. The **ipconfig** command is especially useful for diagnosing DHCP problems. If you're using a DHCP server, you can use **ipconfig** to see the address that DHCP has assigned to the adapter. If you're using a DHCP server, but you see the IP address 0.0.0.0, your computer has either lost communication with the DHCP server or the DHCP server is malfunctioning. If you're using static IP addresses, you can use **ipconfig** to see the TCP/IP configuration as the Windows server sees it. The information displayed isn't simply a regurgitation of what's inserted into the TCP/IP properties sheet--rather, it's a way to tell if Windows has accepted the address that you've used.

By default, **ipconfig** lists the IP address, subnet mask, and default gateway of each network adapter. If you require more detailed information, you can use the **/all** switch after the **ipconfig** command. Doing so will cause the **ipconfig** program to display more detailed information, such as the MAC address of each network card, and an indication of whether the address was provided by a DHCP server.

EXAMPLES

Below is an example of the output you should expect to see when running **ipconfig /all**. Because of security concerns, the below network information is false.

```
Windows 98 IP Configuration
Host Name . . . . . : COMPUTERH1
DNS Servers . . . . . : 123.45.67.8
111.111.111.1
111.111.111.1
Node Type . . . . . : Broadcast
NetBIOS Scope ID. . . . . :
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
NetBIOS Resolution Uses DNS : No
```

0 Ethernet adapter :

```
Description . . . . . : PPP Adapter.
Physical Address. . . . . : 44-44-44-54-00-00
DHCP Enabled. . . . . : Yes
IP Address. . . . . : 123.45.67.802
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . : 123.45.67.801
DHCP Server . . . . . : 255.255.255.255
Primary WINS Server . . . . . :
Secondary WINS Server . . . . . :
Lease Obtained. . . . . : 01 01 80 12:00:00 AM
Lease Expires . . . . . : 01 01 80 12:00:00 AM
```

1 Ethernet adapter :

```
Description . . . . . : 3Com 3C90x Ethernet Adapter
Physical Address. . . . . : 00-50-04-62-F7-23
DHCP Enabled. . . . . : Yes
IP Address. . . . . : 111.111.111.108
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 111.111.111.1
DHCP Server . . . . . : 111.111.111.1
Primary WINS Server . . . . . :
Secondary WINS Server . . . . . :
Lease Obtained. . . . . : 11 16 00 12:12:44 AM
Lease Expires . . . . . :
```

The second serving is even sweeter than the first!



The 2007 FBS Symposium

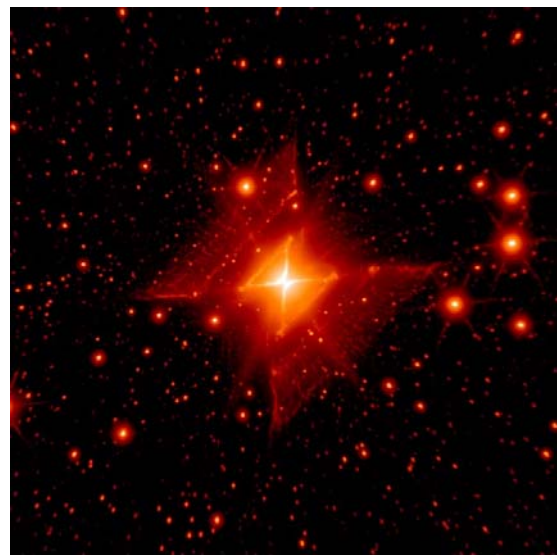
Returns to Disney's

Coronado Springs Resort

October 26-29, 2007

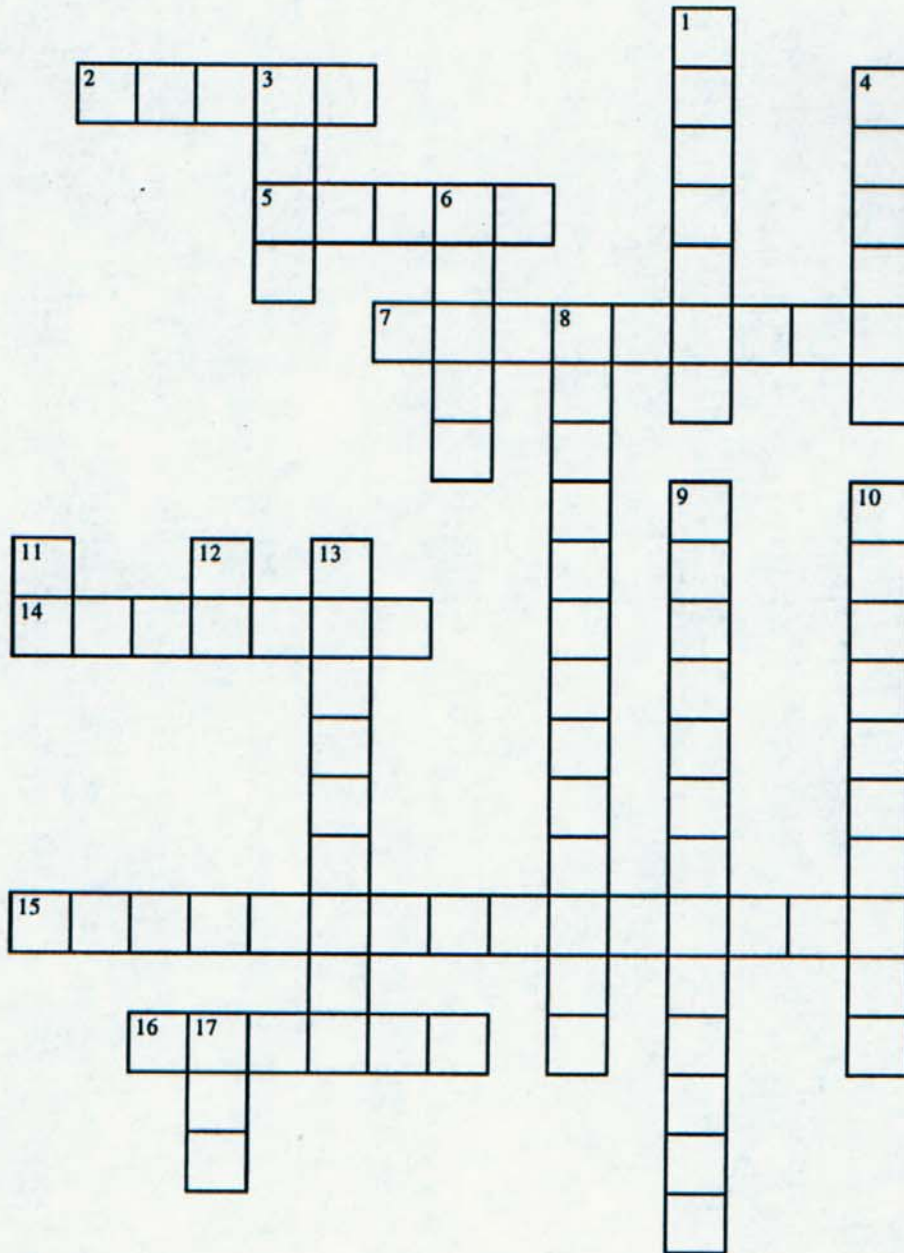


Please, try to make plans to attend and support your state society. Look for more News to come. Schools to be announced and then see all the newest medical wares on the trade show floor. Remember your support is important!



The HST has taken another Cool picture for the ages. "The Red Cosmic Square" it's being called, a near perfect symmetry Nebula. It is from a dying star called MWC 922. Read more about this in April's issue of *Science*.

2nd QTR Newsletter



ACROSS

- 2 Protects patient information.
- 5 Not a real Doc but plays on on tv.
- 7 Long term computer data storage.
- 14 Item no longer used in thermometry.
- 15 Inventor of the ECG.
- 16 Established electrical safety values.

DOWN

- 1 A way to connect computers together.
- 3 Agency for health care administration.
- 4 Something biomed's no longer do a lot of.
- 6 Your local society.
- 8 CLEAR!
- 9 Normal value is 4.7/lpm.
- 10 No more than 500 mohms.
- 11 An at least yearly occurrence.
- 12 Where facilities get accreditation.
- 13 V Tach.
- 17 Your State society.