



## President's Forum



Helen Jones, CBET  
NCBA President

### **Inside This Issue:**

<i>President's Forum</i> .....	1
<i>NCBA Officers</i> .....	2
<i>NCBA Board Minutes</i> .....	3
<i>What Happened To?</i> .....	4
<i>Fluke SPO2 Analyzer</i> .....	5
<i>Treasurer's Report</i> .....	6
<i>Positions Available</i> .....	7
<i>Netech AED Tester</i> .....	7
<i>Symposium Class Schedule</i> .....	8
<i>Caldwell Graduates</i> .....	9
<i>Keyboard Shortcuts, Part 2</i> .....	10
<i>BMET Week Proclamation</i> .....	11

There are several ways to handle a problem. Play mind games with yourself and substitute “challenge” for the word “problem”. Ignore it and hope that with enough neglect, the whole thing will blow over. Shirk your responsibility and pass it on to another more deserving soul. Accept it with a grumbled remark and a defeatist outlook. Greet it with a “let’s get it fixed and fixed right” attitude.

Let’s try the first option and rename it a challenge. Somehow it doesn’t sound so insurmountable. The problem is still unresolved, it just has an alias. In my experience, ignoring a problem gives it a chance to thrive on neglect until it has grown into “THE PROBLEM”. Passing off the issue to someone else generates a lot of ill-will and can result in the shirkee mounting a revenge campaign upon the shirker. Taking on the task while complaining bitterly does very little to boost your reputation with those around you and the defeatist attitude only makes a difficult job unpleasant as well. That leaves us with the “bring it on” attitude.

Now, what is the problem we are facing? Patient Safety Goal #6 is an effort on the part of JCAHO to deal with a challenge that has been around for a while. It’s related to the riddle of “if a tree falls in the forest and no one hears it, does it make a sound?” JCAHO reworded the riddle to read “if an alarm on a piece of equipment engages and no one can hear it, are you providing a safe patient environment?” The answer to that is easy. If no one hears it, no one will respond to it. The appropriate measures will not be taken. The patient might have a negative outcome. The fix is not so easy. Each facility must analyze themselves. How much do we monitor? Aren’t we already doing this? Do we just rewrite policies for that? Do we buy a “system”? Do we change the way we go about our business?

**continued on pg. 7**

# 2003 Board of Directors

## 2003 NCBA Officers

### President:

Helen H. Jones, CBET  
Wake Forest Univ. Baptist Med. Ctr.  
336-713-2891 – Business  
336-713-2901 – Fax  
president@ncbiomedassoc.com

### Vice-President:

Dan Harrison  
ARAMARK Clinical Technology Svs.  
800-999-6678 x 5254 – Business  
404-248-9495 – Fax  
vicepres@ncbiomedassoc.com

### Treasurer:

Linda K. Leitch  
Duke University Health System  
919-681-4293 – Business  
919-681-7361 – Fax  
treasurer@ncbiomedassoc.com

### Membership Secretary:

Christina Fleming  
Moore Regional Hospital  
910-215-5178 – Business  
910-215-4382 – Fax  
memb\_sec@ncbiomedassoc.com

### Recording Secretary:

Sam A. Wright  
Wake Forest Univ. Baptist Med. Ctr.  
336-716-3437 – Business  
336-716-9395 – Fax  
record\_sec@ncbiomedassoc.com

### Ex-Officio:

Boyd Campbell, CBET, CRES  
Catawba Valley Medical Center  
828-326-3899 – Business  
828-326-2105 – FAX  
pastpres@ncbiomedassoc.com

## 2003 At-Large Board of Directors

Dale Allman  
ARAMARK Clinical Technology Svs.  
800-825-1786 – Business  
704- 528-2325 – Fax  
director4@ncbiomedassoc.com

Sally L. Goebel  
Siemens Medical  
919-319-2922 – Business  
919-319-2716 – Fax  
director3@ncbiomedassoc.com

John Noblitt, CBET  
Caldwell Community College  
828-726-2263 – Business  
828-726-2384 – Fax  
director2@ncbiomedassoc.com

Mark Renfroe, CBET  
Wayne Memorial Hospital  
919-731-6077 – Business  
919-731-6951 – Fax  
director5@ncbiomedassoc.com

Glenn Scales, CBET  
Duke University Health System  
919-681-6638 – Business  
919-681-7361 – Fax  
director1@ncbiomedassoc.com

## 2003 Standing Committees

### Rules and Bylaws

Helen Jones (Chair), Mark Renfroe,  
Glenn Scales

### Nominating Committee:

Sam Wright (Chair), Helen Jones, John  
Noblitt

### Finance Committee:

Linda Leitch (Chair), Dale Allman,  
Charles Worrell

### Membership Committee:

Christina Fleming(Chair), Obie Godley,  
Mark Renfroe

### Education Committee:

Dan Harrison (Chair), Boyd Campbell,  
Linda Leitch, Sally Goebel, John Noblitt

### Apprenticeship:

Helen Jones (Chair)

## 2002 Special Committees

### Newsletter Committee:

Glenn Scales (Chair), Boyd Campbell,  
Sally Goebel, Dan Harrison

### Scholarship Committee:

Helen Jones(Chair), Dale Allman,  
Christina Fleming, Linda Leitch

### Vendor Coordination:

Mark Renfroe (Chair), Boyd Campbell,  
John Noblitt, Charles Worrell

### Hotel Coordination:

Helen Jones (Chair), Linda Leitch,  
Glenn Scales, Jim Tripp

### Public Relations:

Helen Jones (Chair), Dan Harrison,  
John Noblitt, Sam Wright

### Internet Committee:

Glenn Scales(Chair), Dale Allman,  
Mike Howell

### Professional of the Year:

Helen Jones (Chair), Dale Allman, Dan  
Harrison, Linda Leitch, Sam Wright

### Historian:

Glenn Scales (Chair), Obie Godley,  
Charles Worrell



NCBA News is an information service of the North Carolina Biomedical Association (NCBA). It has a distribution of about 500 and is published six (6) times per year. Articles and ads are due on or before the first day of odd numbered months. The newsletter is mailed on or about the 15<sup>th</sup> day of the odd numbered months.

While the NCBA makes every effort to assure that its content is accurate, articles are the products of individual authors and the NCBA is not responsible for the content.

NCBA News intends to disseminate information and ideas to its subscribers. While the NCBA News accurately reflects the source of the articles, the content is of variable quality and validity. The Newsletter Committee will attempt to verify all articles, but neither the Editor nor the NCBA is responsible for information.

**YOUR HELP IS NEEDED!!!** Articles of interest to our readers are constantly needed and frequently in short supply. If you have written any articles that may be of interest to our readers, submit it to Newsletter Editor, Glenn Scales, at editor@ncbiomedassoc.com.

# NCBA Board Minutes Friday, July 11, 2003

## Wayne Memorial Hospital — Goldsboro, NC

**Present:** Helen Jones, Mark Renfroe, Linda Leitch, Glenn Scales, Sally Goebel and guests Obie Godley, Mike McCoy, and Dennis Edwards.

**Absent:** Dan Harrison, Sam Wright, Dale Allman, John Noblitt, Christina Fleming, and Boyd Campbell.

Helen called the meeting to order at 10:10am. There not being enough members present to constitute a quorum, it was decided to proceed with a planning session for the symposium.

**Financial report:** There was a discussion of the financial affairs of the organization. Linda has contracted with the accounting firm she has been dealing with in Durham to continue to handle all tax information.

**Education:** Dan has promised to e-mail a preliminary schedule for the symposium to Glenn. Linda, Mike McCoy, Glenn and Helen all expressed a willingness to assist Dan with whatever he needs at this point of the planning process.

**Newsletter:** Glenn asked for articles from the board for the newsletter.

**25th Anniversary:** Dale had not forwarded any information regarding the 25th Anniversary celebration at the symposium to anyone. Sam was going to look into shirt prices as was Mike McCoy. We decided a silver color for gifts and prizes would emphasize our 25th anniversary, including extending this theme to centerpieces for the tables. Mark is checking into a banner for the vendor area and signage directing people to the vendor area. Helen is to check with the hotel about signs about the NCBA at the entrance. Helen will check on possible alternatives to Tuesday's evening meal at the hotel, possibly another off-site location with chartered buses? We discussed having a hospitality suite for after the evening meal. This might be a good time to display old photos, maybe in a Power Point format? The 25th anniversary is an ideal time to recognize our supporters, vendors, individuals. Suggestions were made for this event.

**ASHE Involvement:** Our involvement with ASHE was discussed. In the past we maintained enough contact with that organization to receive awards as a member organization. It was suggested that we should make this a part of the recording secretary's job description to apply for recognition awards for our educational programs, newsletter, etc.

**Nomination report:** Sam has received the names of a few individuals who are interested in board membership. Those board members who remain on the board this year are Sam Wright, John Noblitt, Glenn Scales, and Sally Goebel. Helen has one year remaining in her term but must rotate off to the ex-officio position next year, leaving an opening for which we will appoint someone. Rotating off the board and eligible to run is Christina Fleming, Mark Renfroe, Dan Harrison, and Dale Allman. Rotating off the board but not eligible to run is Linda Leitch. We need a slate of at least ten people in order to give a good selection.

The next meeting is September 12, 2003 at ARAMARK Clinical Technology Services in Charlotte, NC. Dale Allman will be the host.

The meeting was adjourned at 1:40pm.

---

**NCBA News** is accepting advertising that relates to biomedical equipment and of interest to our readers. Suggested subjects are: Positions Desired, Positions Available, Biomedical Equipment Wanted or For Sale (New or Used), or Announcements of Educational Opportunities or Service Schools in the area.

Advertising is open to all individuals, hospitals, and companies. The decision to carry a particular ad or classified will be the decision of the Editor with support of the NCBA Board. Either jpeg or tiff files of the actual size ads is required. **Corporate Members please remember what free advertisement your membership allows.** Please contact the Newsletter Editor for other pricing.

## Information Update Requested

Please remember that if you move, change jobs, change phone numbers or e-mail addresses, send an update to the NCBA. All changes can be sent to Crisci Fleming at e-mail [memb\\_sec@ncbiomedassoc.com](mailto:memb_sec@ncbiomedassoc.com) or by phone at 919-688-6890.

Any changes for the web site can be sent to Glenn Scales at [webmaster@ncbiomedassoc.com](mailto:webmaster@ncbiomedassoc.com) or phone 919-681-6638.

***Privacy Note: Member information is released only to registered NCBA Vendors and only business contact information is provided. Under no circumstances is information provided for the purpose of marketing inappropriate material or services.***

---

## Prepayment of all advertising is required.

### Classified Advertising

Except "Position Wanted" notices by members (one ad per year – limit 50 words – no charge) the following ad rates apply:

Full Page	\$200. <sup>00</sup>
Half Page	\$100. <sup>00</sup>
Quarter Page	\$50. <sup>00</sup>

If the ad is a single page to be included as an insert, the advertiser will pay all additional printing and handling costs. Placement of non-member ads is on a "space available basis. Advertising that is to be printed in color will include all additional costs to prepare and insert the color page.

## What Happen To.....continued

Many of our past NCBA Officers return to the yearly symposium, but there are some we haven't heard from in a while. While working with the "NCBA 25<sup>th</sup> Year Anniversary Committee, I was able to locate some of them.

Our 1987 President: Margaret Clark. Margaret lives in Fuquay Varina, NC and works as a field service representative for Abbott Laboratories.

Our 1988 President: Charles Worrell. Charles has been with TRC Environmental, since 1978, working as a contractor at the US Environmental Protection Agency's Human Studies Facility in Chapel Hill, NC. He served the NCBA as Vice President in 1991 and Treasurer in 2001 and 2002.

Our 1989 President: Dale Allman. Dale is currently with ARAMARK Clinical Technology Services. SunHealth was merged into Premier in January 1996. At that time he was TM for Western NC, Managing 9 accounts. In April 1997, he was promoted to Area Manager for Central Region of Premier CTS. Currently Dale is managing 29 regional account service hubs.

Our 1990 President: Ken Bissett. Ken is also with ARAMARK Clinical Technology Services.

He was Program Director and Lead Instructor at Caldwell Community College during my two terms as President of the NCBA. 1984 & 1990. He then worked for five years as Director of Clinical Equipment Management. For the last seven year as Technical Support Representative in the Clinical Engineering field for ServiceMaster, now ARAMARK, covering five states.

Our 1993 President: Lane Rushing. Lane is with Medtronic Physio-Control.

Since serving a President in 1993, he has served a term as a General Board Member, 1998-2000. He continues to support the NCBA every chance possible.

Lane completed 20<sup>th</sup> year as a Technical Service Representative with Medtronic Physio-Control. Coverage area is Eastern North Carolina and Tidewater Virginia.

Our 1994 President: Greg Johnson. Greg is with Catawba Valley Medical Center. From 1988–1998, he served as Director of Clinical Technology Services for Catawba Memorial Hospital. In 1998, was promoted to Director of Facility Services with continued responsibility for CTS and management responsibilities for Plant Operations and Construction services. In 1999, assumed responsibility as Chairman of the Environment of Care Committee with 5 subcommittees reporting.

*From the NCBA perspective, "I have served on several committees since serving as President. I continue to be concerned about the future of the NCBA. One observation I have is related to education. I feel the association has always done a good job educating members from the technical perspective. The association was originally developed and focused on technical education. In the beginning, hospitals had very small departments. As the field has grown, departments have grown and members have accepted many more equipment management responsibilities. I feel the association needs to also change with the field to support our members by providing*

*additional managerial related education such as technology assessment, JCAHO related topics, forums discussing elimination of service contracts and communication skills to name a few."*

Our 1995 President: Obie Godley. Obie is with Pitt County Memorial Hospital.

*"I continue to be a man of many convictions, but only 4 in North Carolina. My wife Becky and I continue to raise and enjoy our 2 daughters, now ages 13 and 15.*

*I continue to be a part of the NCBA and enjoy being on committees and helping with whatever I'm needed to do.*

*PCMH's Biomedical Department continues to grow and take on additional responsibilities. Since my presidency we have taken on 5 additional hospitals and many clinics and physician offices. This keeps us all extremely busy!!*

*We are in the process of having a new facility built to house the Biomedical Department. It will be completed in January 2003. Please feel free to visit us after we move into our new home."*

*"I encourage everyone to continue to support the NCBA and be involved. It is well worth the effort."*

Our 1996 President: Mike Marrow. Mike is the Vice President of Operations for ARAMARK Clinical Technology Services. Mike lives near Charlotte, but his duties frequently keep him on the road when he isn't in the new Charlotte office.

Our 1997 President: Dennis Minsent. Dennis is currently with ARAMARK Clinical Technology Services.

*"Since leaving office I have been an Area Manager in the northeast and western regions for Premier Clinical Technology Services. For the last two years I have been a manager in Premiers' Technology Assessment group. In my new role I am responsible for the clinical laboratory area as well as doing consulting work in strategic technology planning and risk management for hospitals all over the country."*

*"After 25 years I was able to move back home to Oregon. I serve on the local school board and the U. S. Certification Commission for Biomedical Technology."*

*"North Carolina is very fortunate to have such an outstanding biomedical association. I have traveled all over the country and none compare to the NCBA!"*

Our 1998 President: Ray Laxton. Ray is with ARAMARK Clinical Technology Services

*"Since leaving office I have transferred to Indiana with ARAMARK as the Director of Clinical Engineering for Clarian Health Partners (Methodist Hospital, Indiana University Hospital, and Riley Hospital for Children)."*

*"We are responsible for the maintenance and life-cycle management of more than 52,000 medical devices ranging from infusion devices to high-end imaging and oncology therapy systems. I have also invested significant time with AAMI serving as the Annual Conference Program Committee Co-Chair for 2001 and 2002, and serving as a Director on the AAMI Board of Directors since 2002."*

## Index-2 SpO2 Analyzer Welcomes New Enhancements

CARSON CITY, NV — Fluke Biomedical Corporation (FBC) is proud to announce a new firmware release for the Index-2 SpO2 analyzer. This firmware, which provides customers with new testing capabilities and strengthens the Index-2 position as the market leader, comes standard in all new instruments and existing instruments can easily be upgraded.

**Transmission Level Control (TLC):** Today, SpO2 simulations are based on a fixed finger thickness. With the Index-2's implementation of TLC, pulse oximeters and probe performance is thoroughly tested over a wide range of simulated finger thicknesses. This capability easily facilitates the ability to compare performance between brands, models, and probes. In addition a base line can be established that will detect minute degradations in performance prior to the development of major problems. Quality-minded medical device manufacturers and biomedical engineers will appreciate this new testing feature while evaluating pulse oximeters.

**Three new R-curves for Philips Medical Systems (formerly Agilent / H-P):** Philips Medical Systems (PMS) provided a

customized R-curve for the Index-2 that is fully compatible with their PMS M1190 re-useable SpO2 probe. This probe is used throughout their extensive patient monitoring and cardiac resuscitation product lines. PMS also provided FBC with two additional customized Index-2 R-curves for earlier PMS SpO2 probes.

**New N-10 R-curve:** The Nellcor N-10 R-curve is updated to more accurately simulate SpO2 with the Nellcor N-10 Pulse Oximeter.

The Index-2 is the industry standard SpO2 analyzer and is used by major manufacturers such as Nellcor, Masimo, Philips Medical Systems, Datex-Ohmeda, Criticare and other industry leaders. The Index-2 implements several patent-protected techniques for optical simulation and motion, including sixteen (16) motion pre-sets co-developed with both Masimo and Nellcor. Index-2 was the first SpO2 simulator to support Masimo technology and still is the only simulator on the market that combines both optical and electrical simulation with dynamic SpO2 sensor and probe testing in one portable test instrument.

## The Medical Equipment Buyer's Expo!

**October 27-29, 2002**

Callaway Gardens Resort • Pine Mountain, GA  
(1 hour south of Atlanta)

*Exhibitor Trade Show/  
Conference co-hosted  
with Georgia  
Biomedical  
Instrumentation  
Society*



**MEDICAL  
DEALER**  
2 0 0 2

### Biomedical Educational Seminars

- The Principles of Servicing Radiology Equipment—Manny Roman, Co-Founder, DITEC
- Olympus Brand Flexible Endoscopes: Understanding the Basics & How to Reduce Repair Costs—Doyle Merhoff, Matlock Endoscopic
- How to Properly Market Pre-owned Medical Equipment to Hospitals—Jim Fedele, BMET, Susquanna Health System

**OVER 50 Medical  
Equipment & Service  
Exhibits!**

**Golf Tournament,  
BBQ Hoedown,  
Networking & Fun!**

**800.906.3373 • [www.mdpublishing.com](http://www.mdpublishing.com)**



## Dollars and Sense

By Linda Leitch, NCBA Treasurer

Account balances as of 7/11/2003:

Checking:		\$8,534.62
CD's:	XX205	\$24,820.11
	XX257	\$24,087.62
Scholarships:	Eddie Whisnant	\$602.32
	Norm Reeves	\$602.32
Asset Liability (tax)		\$2,125.00

### (Income highlights)

Contribution	\$125.00
Interest	\$124.48

### (Expense highlights)

Office Expenses	\$1,486.18
2001 Taxes	\$2,444.96



# The Battery Clinic, Inc.

MEDICAL, INDUSTRIAL, COMMERCIAL

**800-786-1511**

## The Battery Clinic, Inc.

is a company devoted to *Quality* and *Customer Satisfaction*. With many years experience in the battery field, we can help you with most every type of battery or battery question. If we don't know, we will try to find out for you. When you need a battery or information on a battery, give us a call. **"We've Got The Cure."**

[www.BatteryClinic.com](http://www.BatteryClinic.com)



*We Gladly  
Accept  
Government  
IMPAC  
Cards!*



Physio Control

Hewlett Packard

Spacelabs

Baxter Travenol

Critikon

Corometrics

Datascope

Sherwood

Tektronix

Kontron

Lifeline

Abbott

Air Shields/Vicker

Burdick

Cambridge Medical

Criticare

## Batteries For:

### Portable X-Ray Machines

- General Electric AMX Units
- Philips Medical Units
- Picker International Units
- Raytheon Units
- CGR Batrix Units
- OEC C-Arm Units
- And Many Others

### Biomedical Equipment

- Defibrillators
- Monitors
- Pumps
- Bed Scales
- Recorders
- Oximeters
- Transports Call Us for Best 2001 Prices!
- Patient Cables & Leadwires



McGaw

Laerdal

Marquette

Nelcor

Ohmeda

Ross Labs

Zoll

Digitron

Gould

Impact Medical

Ivy Biomedical

MDE

Novamatrix

Parks Electronics

PPG Biomedical

Many, Many, More!

3105-A2 Spring Grove Drive \* Augusta, Georgia \* 30906

**Proud Supporters Of The NCBA Since 1992**

## Position Available for a Biomedical Equipment Technician II & III

Catawba Valley Medical Center is seeking a general biomedical technician as well as a radiology equipment specialist to join our team of professionals. We are located in Hickory, NC at the foothills of the Blue Ridge Mountains. Catawba Valley Medical Center is a progressive facility that was named as the 32nd Magnet Hospital in the nation. We are seeking a general biomedical technician who has experience in servicing a wide variety of general biomedical devices such as physiological monitoring, respiratory equipment, life support devices and a Radiology specialist who has knowledge of a wide array of radiological devices from RF rooms to CT scanners. Applicants must have experience in their respective fields. AAMI Certification is a plus. We offer exhilarating growth and learning opportunities in a friendly, patient focused environment. Please mail your resume to: Catawba Valley Medical Center, Human Resources, 810 Fairgrove Church Rd., Hickory, NC 28602; phone: (828) 326-3359; or FAX resume to: (828) 326-2450



### ***President's Forum continued***

On June 20, several NCBA members attended a panel discussion on Patient Safety Goal #6 at Catawba Valley Medical Center in Hickory, NC. We found that each facility was approaching the topic in different ways. Various things impacted on the response of the facilities represented (size of the institution, acuity of the patients, and physical layout of clinical areas), but the common thread that ran through the meeting was that the biomedical or clinical technologies departments were key players in dealing with the issue. It's another example of the institutions for which we work turning to us when being faced with a challenge. It's our choice as to how we respond to the request for help with a problem. We're free to choose from the list of responses above, but I see it as a perfect opportunity for our departments to shine as the "go to" resource for other hospital departments. North Carolina Biomedical Technicians Week is coming up August 3-9. Give your facility another reason to thank you for all you do.

## A New Device To Test AED'S (Automatic Electronic Defibrillator)

Netech Corporation, a leading manufacturer of Biomedical test instruments, has introduced a unique device, the DELTA 1500, to verify the performance of Automatic Electronic Defibrillators. AEDs are emergency life saving devices that restore a normal heartbeat by delivering an electric shock to the heart after sensing a life threatening arrhythmia.

AEDs are placed in ambulances, police cars, businesses, sport stadiums, malls, aircraft, and other locations. New York and Pennsylvania have legislation that requires that an AED be on site in every school and at any school sponsored activity away from the school. New versions approved for personal home use have recently been introduced.

It is important to periodically test the operation and check the performance of patient connected devices including these defibrillators. The DELTA 1500 is the first inexpensive instrument designed to test the functions of any automatic or semi-automatic defibrillator.

The hand held, micro-controller based DELTA 1500 simulates user selectable heart attack waveforms for the AED to detect and analyze. When the AED recognizes certain waveforms it will either automatically charge the defibrillator or alert the user to manually charge the defibrillator. The discharge energy is then measured through a circuit that simulates the impedance of the human thorax and is displayed on the tester's large LCD display.

In addition to the manual mode, an automatic test sequence may be selected on the DELTA 1500. In this mode, the simulated heart attack waveform changes back to a normal rhythm following recognition of the waveform, and the charging and discharging of the energy by the AED. Only a couple of minutes are required to complete the performance tests and measurement.

A 9-Volt battery powers the portable DELTA 1500. It is shipped with its own carrying case, an instruction manual, test cable connectors to adapt to any AED, a Certificate of Calibration traceable to the NIST, and a two-year warranty.

Its size, speed of testing, simplicity of operation, and cost make the DELTA 1500 the perfect device for those charged with maintaining the strict performance levels of AED defibrillators.

Netech Corporation has been designing, manufacturing, and distributing biomedical test instruments to the medical industry, worldwide, for over 15 years. Other Netech products include electrical safety analyzers, patient simulators, pacemaker analyzers, defibrillator testers, and pressure/vacuum meters. Netech is ISO 9001-2000 certified and its products are CE marked.

# NCBA Preliminary 2003 Symposium Schedule

## Monday, December 1, 2003

	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	Location
Registration / Cont. Breakfast																Conf. Center Foyer
NCBA Board Meeting																Convention Office
Vendor set-up Time																
Managing PACS																South
Principles of Radiology																Ross
Zoll M Series Defibrillators																Olmsted
Principles of Ultrasound																North
Valleylab LigaSure ESU Systems																Tufts
Lunch																Oakley
Introduction to Oximetry and Capnography																North
Study Habits for CBET Certification																Tufts
Drager Anesthesia Units																Olmsted
Exhibit Hall Opening Reception																Exhibit Hall

## Tuesday, December 2, 2003

	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	Location
Registration																Conf. Center Foyer
Keynote Address																Olmsted
Visit the Vendors/Cont. Breakfast)																Exhibit Hall
NCBA Lunch/Business Mtg.																Callaway / Oakley
Datascope Passport 2 Monitors																Ross
Principles of Clinical Lab Equipment																Tufts
Hill Rom Infant Incubators & Workstations																Azalea
Power Conditioning and Line Filtration																Dogwood
Computer Power Tips & Tricks																North
Erbe Electrosurgical Units																South
Vendor's Social																Exhibit Hall
NCBA Dinner																Cardinal Ballroom

## Wednesday, December 3, 2003

	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	Location
Registration																Conf. Center Foyer
Final Exhibit Removal																Exhibit Hall
Puritan Bennett 840 Ventilators																Oakley
Introduction to Linear Accelerators																Tufts
Troubleshooting Diagnostic Ultrasound																Ross
Philips IntelliVue Monitoring																North
Lunch																Callaway
Radiographic Injectors																North
Golf Tournament																Pinehurst Golf Course



## Caldwell Community College Graduates

This years graduating class of Caldwell Community College and Technical Institute is off and running. A big NCBA congratulation goes out to the following students who have accepted positions in the biomedical field.

Ms. Namia Hallman has accepted a position in Greenville, S.C. at Greenville Hospital System. Namia came to Caldwell with college credit from Gardner Webb University and a B.S. degree from Liberty University in another health related field. She called to inform me the other week that she had accepted the BMET 1 position in Greenville and was very excited about her new career.

Mr. Tracy Corpening has accepted a job offer from InterMed, Inc. out of Charlotte, N.C. Tracy brought the work ethic it takes to be division one football recruit to the classroom at Caldwell and I'm sure he will continue his exceptional work at InterMed.

Our next graduate moved from Florida to N.C. specifically to take the BMET classes at Caldwell Community College. Mr. Mike McAuliffe has accepted a position as a field service technician for Florida Medical Consultants, Inc. out of Kissimmee, Fl. Mike will specialize in diagnostic ultrasound equipment with Florida Medical Consultants.

Mr. Kris McVey, a very accomplished classical pianist and an honors graduate from DITEC level one has accepted a position with Siemens, Inc. Kris will be working out of the Cary, N.C. office as a Technical Support Representative.

Last but certainly not least is Mr. Cary Setzer. Cary, a motorcycle enthusiast and mechanical wiz has accepted a position with J & J imaging out of Kernersville, NC. After training Cary will be working in the imaging field while based out of Roanoke, Virginia. Cary brings a wealth of mechanical knowledge with him to J & J Imaging. These skills make Cary well suited for a position in the imaging field. Cary is also a graduate of DITEC level one.

I would like to thank the other NCBA members who helped in educating these fine students. A big thank you goes out to Thomas Horton from Lincoln Medical Center in Lincolnton, NC, Tim Johnson from Blue Ridge Health Care System out of Valdese, NC, Mr. Boyd Campbell from Catawba Medical Center in Hickory, NC, Larry Kodack from Duke Univ. Medical Center and to Manny and Ruth Roman from DITEC, Inc. All of these people were instrumental in preparing these graduates for careers in the biomed world. A sincere thank you goes out to each of you and to your fine staff who helped these students along their journey.

Caldwell Community College graduated several other fine candidates for entry-level positions but as of yet have not found their right opportunity. If anyone would like to know more about this years graduates please contact John Noblitt at [jnobitt@cccti.edu](mailto:jnobitt@cccti.edu)

Submitted by John Noblitt, B.S., CBET  
BMET Program Director  
Caldwell Community College and Technical  
Institute



*This morning  
he red-tagged  
your equipment.*

*Now comes  
the fun part.*

You need on site labeling and you need it fast. MET Laboratories has the solution.

Our field labeling program combines the best of both worlds—response time and technical competence. What it will mean for you is minimal downtime. Call backs in one hour. Quotes in 24 hours or less. And next day service in most locations.

So, next time you see red, give MET a call at 800-321-4655.

[www.metlabs.com](http://www.metlabs.com)



# Keyboard Shortcuts, Part 2

## By Glenn Scales, CBET

Some time back I wrote an article about the use of keyboard shortcuts in working with Windows NCBA News Vol. 21, No. 3). Since we spend so much time with our hands on the keyboard, it makes sense to learn to use these shortcuts to improve our efficiency. Most of these shortcuts, like Ctrl-C for Copy and Ctrl-X for Cut are well known and most people frequently use them, but some are more subtle and may only be used in one particular application. I'd suggest that if you frequently use a command in a program, learn the corresponding shortcut to improve your speed and efficiency.

The next step in learning how to use the keyboard to become more productive is to extend your repertoire of shortcuts by the use of multiple keys. For instance, in many Microsoft applications, pressing Ctrl-Shift-Spacebar enters a non-breaking space. Pressing Ctrl-Shift-hyphen enters a non-breaking hyphen. This means that Word will not split your word when the word wraps at the end of a line. This is particularly useful when you don't want a person's name or a hyphenated name, such as Winston-Salem to be split across two lines or you always want to ensure that a title is part of a name, such as King George IV.

The use of the Shift key in many Microsoft applications will cause new items to appear of the menus if you hold the Shift key down when making your menu selection. For instance, when you click on the File menu in MS Word you will find selections for Save and Close. Hold the Shift key and click on File and you will find Save All and Close All. This is very useful when you are working on multiple documents.

Have you ever wanted to copy a chart from an Excel document and add it to a document as if it were a piece of clip art? If you copy and paste, Windows will try to establish a link in your second document back to the original spreadsheet. This adds unnecessary size and complexity to your document if all you want is a pretty picture. Instead, try this – click on the chart to select it, then hold down the shift key and click on the Edit menu. You will find a new selection labeled “Copy Picture...” which will open a dialog box with options for copying the picture exactly as it appears in the chart. In this way you get an exact picture of the chart – not the chart itself or an ODBC link.

I use Internet Explorer so much I feel I can't get any work done without it. However, a few shortcut keys makes it even more useful to me.

- F3 opens the search dialog box
- F4 displays a list of addresses you've typed
- F5 refreshes your web page. Ctrl-F5 causes a forced refresh from the server that completely rebuilds the page and updates your internal cache
- F6 selects the entry in the Address Bar (so you can copy and paste)
- F11 toggles the view from your normal configuration to a full screen view

Clicking on a link while holding down the Shift key causes the link to open in a separate window.

If you have a scroll wheel mouse, I found two new functions that are not described in any of the mouse literature. Just moving the scroll wheel will cause the page you are viewing to scroll up and down. I have found that the scroll wheel works with almost any application. Here are some special undocumented features:

1. If you have selected a drop down box on a web page, say for selecting your state, moving the scroll wheel will cause you to scroll through the list options.
2. When viewing a web page in Internet Explorer, if you hold down the Ctrl key and scroll, the text on the web page will change size. Unfortunately this does not work with Netscape. Holding the Shift key while you scroll allows you to go back and forward through the pages you have visited.
3. In Microsoft Word and Excel, if you hold down the Ctrl key and scroll, the Zoom size will increase or decrease in 10% increments as you scroll.

Do you work with Excel and have spreadsheets with multiple worksheets? This can be very useful, but it's aggravating to constantly have to use the mouse to move between worksheets. Well – no more. Holding down the Ctrl key and pressing Page Up and Page Down allows you to move between your worksheets. You may also know that if you select more than one worksheet you can make changes to all of them at the same time. To select multiple worksheets navigate to the first one, then press Ctrl and Shift then Page Down to add the next page to your selection, and so on. All without the use of the mouse.

To select non-sequential Excel worksheets, hold down the Ctrl key and click the worksheets you want to select, then perform the action you intended. To unselect, just click on any other worksheet. If you have selected all the worksheets, how then do you ungroup them? Just right click on any worksheet and select “Ungroup Sheets.”

We have to deal with dialog boxes every day, but a few shortcuts can make them much easier to navigate. You've seen dialog boxes with multiple tabs for selecting various options. Did you know that you can move through the tabs by using Ctrl-Tab and Ctrl-Shift-Tab to move forward and back. Once you have selected the tab with the information you need, you can move through the various options with the Tab and Shift-Tab keys. If you come to a series of check boxes, you can tab to what you want and use the spacebar to select it.

By now I'm sure that many of you are wondering why all this is necessary when you have a perfectly good mouse just laying there next to your keyboard. I've found over the years that when I'm working on a document, these keyboard shortcuts are more productive for me than stopping my work, reaching for the mouse and resuming working again. Also, when I travel I don't always take a mouse with my laptop and the built-in glide pad just slows me down. For many things the mouse is indispensable and we certainly can't work well without it, but it isn't always the fastest or most efficient method for some tasks. Give it a try – you may find you like this way of working better and may get more done more easily.

# State of North Carolina



MICHAEL F. EASLEY  
GOVERNOR

## BIOMEDICAL EQUIPMENT TECHNICIANS WEEK

2003

BY THE GOVERNOR OF THE STATE OF NORTH CAROLINA

### A PROCLAMATION

WHEREAS, modern health care relies upon machines and people for the best treatment available. Diagnostic instruments such as patient monitors, EKG machines, and laboratory and X-ray equipment help establish the need for care. Therapeutic systems such as anesthesia machines, physical therapy instruments, pacemakers, and radiation devices provide needed service to patients; and

WHEREAS, while health care costs are a major concern, costs can be controlled by effectively selecting and repairing medical equipment by qualified clinical engineers and biomedical technicians; and

WHEREAS, the biomedical technician has the level of education, experience and competence needed to work professionally with physicians, hospital administrators and other personnel regarding the technological aspects of health care delivery. They install, inspect, repair, calibrate and modify medical devices and medical support systems. These professionals offer advice about the operation, underlying physiological principles and the practical, safe clinical application of medical devices. They also supervise biomedical equipment maintenance activities;

NOW, THEREFORE, I, MICHAEL F. EASLEY, Governor of the State of North Carolina, do hereby proclaim August 3-9, 2003, as "BIOMEDICAL EQUIPMENT TECHNICIANS WEEK" in North Carolina, and urge our citizens to recognize the importance of this profession in maintaining quality health care in our State.



*Mike Easley*  
MICHAEL F. EASLEY

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Great Seal of the State of North Carolina at the Capitol in Raleigh this twelfth day of May in the year of our Lord two thousand and three, and of the Independence of the United States of America the two hundred and twenty-seventh.

## SCHEDULE of NCBA BOARD of DIRECTORS MEETINGS for 2003

**March 14, 2003, Time: 10:00 a.m.**

Siemens Uptime Service Center, Cary, NC  
Host – Sally Goebel, Ph: 336-586-0868

**May 16, 2003, Time: 10:00 a.m.**

Sheraton Hotel, Research Triangle Park, NC  
Host – Glenn Scales, Ph: 919-681-6638

**July 11, 2003, Time: 10:00 a.m.**

Wayne Memorial Hospital, Goldsboro, NC  
Host – Mark Renfroe, Ph: 919-731-6077

**September 12, 2003, Time: 10:00 a.m.**

ARAMARK Clinical Technology Svs., Charlotte, NC  
Host – Dale Allman, Ph: 800-825-1786

**November 14, 2003, Time: 10:00 a.m.**

Pinehurst Resort & Hotel, Pinehurst, NC  
Ph: 800-487-4653, [www.pinehurst.com](http://www.pinehurst.com)

**December 1-3, 2003**

2002 NCBA Symposium and Expo  
Pinehurst Resort & Hotel, Pinehurst, NC

**January 9, 2004, Time: 10:00 a.m.**

Duke University Hospital, Durham, NC  
Host – Glenn Scales, Ph: 919-681-6638

**February 6-7, 2004, Time 8:30 a.m.**

Board of Directors Planning Retreat  
Myrtle Beach, SC - Location to be determined

**Board Meetings are open to the NCBA Membership.**

**Please plan to attend.**

*North Carolina Biomedical Association*

*6300-138 Creedmoor Road, PMB 272*

*Raleigh, NC 27612-6730*

*Phone: 919-688-6890*

*Website: [www.ncbiomedassoc.com](http://www.ncbiomedassoc.com)*



PRESORTED  
FIRST CLASS  
U.S. POSTAGE  
PAID  
Raleigh, NC  
Permit # 1854