



## President's Forum



Helen Jones, CBET  
NCBA President

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It's the North Carolina Biomedical Association's 25th year of existence. It's a normal time for retrospection and sentences that start with the words "remember when..." but what about our future as a profession?

One of the most common phrases I hear around my shop is "never a dull moment" and that atmosphere of expecting the unexpected is exactly what keeps my interest peaked year after year in this field. That readiness to meet the unexpected is a component of our business that starts from the moment we start the evaluation process on a new piece of equipment. While we listen to a salesman's presentation, biomedical staff tends to run through a list of concerns about the equipment being demoed that constitutes our own customized background check. "How does it do that?" "What can the clinical staff do to make it stop doing that?" "We're going to get lots of calls on this." "That little clamp on the side will snap off first thing." "Look at how it mounts." "It's flimsy." "Who came up with that color?" (Biomedics sound like picky souls who may be closely related in temperament to art critics in our inability to be pleased.)

Are we hard-to-please pessimistic fanatics or experienced realists? I tend to go with the option of us being a perpetually curious breed. Our natural tendency to poke, prod and ponder the workings of the equipment around us is what led us to choose this profession in the first place. We were the children who, when left to our own devices, dismantled our parents' toaster and one toaster wasn't enough because the next toaster might be just different enough to be interesting.

The next time you are in a technical training class observe how nervous the instructor looks when begging the class to please refrain taking the equipment apart until instructed to do so. (They know us.) The curious child hidden within the biomed is just itching to break into this brand new and improved "toaster" because we want to learn about it.

What does the future hold for our field? Faster and smaller, bigger and better equipment? Probably. But it will always hold the chance for us to learn more and that will satisfy our curious natures.

# 2003 Board of Directors

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336-713-2891 – Business  
336-713-2901 – Fax  
president@ncbiomedassoc.com

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

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

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Catawba Valley Medical Center  
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828-326-2105 – FAX  
pastpres@ncbiomedassoc.com

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## 2003 Standing Committees

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Glenn Scales

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Helen Jones (Chair), Dale Allman, Dan  
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### 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.

# New Technology Management Council Proposed

Earlier this year, AAMI conducted a study of its technology management members to determine their perceptions about AAMI in general; existing and new benefits; and current and potential ways that technology managers could best interact with AAMI, other members, and the health care community. (The results of this study are posted at <http://www.aami.org/resources/BMET/news.html>.)

This segment of the membership includes BMETs, clinical engineers, and other technical professionals who provide management and support services related to medical technology.

As a result of the study and the perceptions of AAMI staff and leadership that new services were needed to be responsive to the needs of technology managers, a 15-member BMET Task Force was created to review the study results and develop recommendations on existing and new services.

The BMET Task Force has completed its work and has made a number of recommendations, including a recommendation for the creation of a new Council and Technical Management Executive Committee that will provide a more focused voice for technology managers.

The Council and its Executive Committee would work to increase the recognition of technology managers and their important role in health care, serve as a focal point for formulating AAMI policies and programs for technology managers, assist staff and the AAMI Board with the development of strategic and business plans, and work to optimize communications between this segment of the membership and other members and the health care community.

While technology managers now serve on a number of committees, their viewpoints are focused on specific

programs. By contrast, the Council would provide the clear focus necessary to enhance the recognition and services that technology managers need and deserve.



The AAMI Board of Directors will review this plan in November. The plan contemplates the creation of the TM Executive Committee and Council early

in 2004. The Executive Committee will consist of five AAMI members. The Council will consist of up to 50 members from all categories of the AAMI membership: Individual, Institutional, Corporate, Local and State Biomedical Organization, and Student.

The BMET Task Force and AAMI staff have outlined a number of benefits that will be enhanced or developed to better serve this segment of the membership, including advocacy efforts to increase recognition and support; new publications and educational activities; links with local biomedical societies and their programs; and market research and benchmarking on career issues such as compensation, fringe benefits, and work responsibilities. A compensation study was recently conducted and the results will be published in the November-December issue of AAMI's peer-reviewed journal, *Biomedical Instrumentation & Technology* (BI&T.)

If the AAMI Board approves this proposal in November, the Task Force plan and details of implementation will be available on the AAMI website and in its publications. For questions or comments about this plan, contact Steve Campbell at [scampbell@aami.org](mailto:scampbell@aami.org).

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**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.

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## 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.



## Dollars and Sense By Linda Leitch, NCBA Treasurer

*Account balances as of 11/12/2003:*

Checking:		\$59,482.21
CD's:	XX205	\$25,044.66
	XX257	\$24,087.62
Scholarships:	Eddie Whisnant	\$602.32
	Norm Reeves	\$602.32
Asset Liability (tax)		\$2,125.00
<b>(Income highlights)</b>		
Corporate Memberships		\$22,600.00
Symposium registration (individuals)		\$5,525.00
Golf registration		2,810.00
Symposium donations		\$6,500.00
Table sponsorships		\$1,300.00
Golf Hole sponsorships		\$800.00
<b>(Expense highlights)</b>		
Newsletter		\$1,003.61
Postage		\$1,670.85
Taxes		\$1,884.60

## Netech Releases New Devices

Netech has released several new products lately. You can get additional details and specifications at their web site [www.gonetech.com/](http://www.gonetech.com/)

UniMano is a universal Pressure, Vacuum and Temperature meter designed for very precise measurements of pressure, vacuum and temperature. It offers more features than any other pressure/temperature meter in the market.

UniMano is available in 8 different Models- from pressure ranges 02 PSI to 200 PSI in Gauge and Absolute with temperature in YSI 700 or K/J types.

The EXPMT 2000 has evolved from the best selling EXPMT 100 pacer analyzer. The EXPMT 2000 has a new look, new features, new controls, and new display that combine to make it the easiest to use and the most comprehensive pacer analyzer available.

The EXPMT 2000 will test and verify all the functions of any external pacemaker - transvenous, transcutaneous, and A-V.

Measurements are simultaneously presented on a large LCD display. The standard RS 232 serial port allows for printing or storage on a Palm Pilot.

The LKG 610 is a hand-held, microprocessor based Electrical Safety Analyzer designed to test any medical equipment.

The full function tester has 10 leads that accept snaps and any post. Tests are quickly and easily performed when the appropriate

key is pushed. Measurement results are displayed on the large LCD and measurement units are clearly indicated by an LED. Large switches change polarity, open and close neutral, and lift the ground.



In addition to the standard electrical safety tests, the LKG 610 makes both lead ISO and point-to-point measurements. Calibrated test points ensure accuracy and repeatability. Either the AAMI or the IEC601 test load may be selected. The fuse is accessible.

The LKG 610 provides the best combination of features, performance, and value of any portable electrical safety analyzer.

# Vendors Rush to Sign Up for the 2003 Symposium & Expo

At the time this Newsletter was sent to the printers, we had a total of 76 vendors already signed up for the 2003 Symposium and Expo and of those, seven had double booths. This has been an extraordinary year for the NCBA and thanks to the generosity of several vendors, this will be highly memorable for those of you attending. If you haven't done so already, send in your Symposium registration form today. This is a Symposium that you definitely don't want to miss.

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# Round Table Discussion of Patient Safety Goal # 6

JCAHO's Patient Safety Goal #6 was designed to improve the effectiveness of Clinical Alarm Systems by:

Implementing regular preventative maintenance and testing alarm systems;

Assuring that alarms are activated with appropriate settings and are sufficiently audible with respect to distance and competing noises within the unit.

The purpose of Patient Safety Goal #6 is to reduce the deaths and the injuries related to alarms. In 2002, JCAHO Sentinel Event Alert reported 23 ventilator deaths and injuries. Out of those 23, 65% of those deaths and injuries were directly related to alarms. It makes one wonder how many near misses were not reported?

There are two prominent kinds of alarms in a healthcare facility: clinical alarms and self-actuating alarms.

A clinical alarm is an alarm triggered by physical or physiologic monitoring with equipment such as ventilators or respirators.

A self-actuated alarm is an alarm that has to be physically activated such as a bathroom panic button or an elopement /abduction button.

Recently, representatives from six medical facilities met for an informal round table discussion on JCAHO's Patient Safety Goal #6. The participating medical facilities included: Catawba Valley Medical Center of Hickory, Wake Forest Baptist Medical Center of Winston-Salem, Wilkes Regional Medical Center of Wilkesboro, Pardee Hospital of Henderson, Moses-Cone of Greensboro, and Lincoln Medical Center of Lincolnton. The group discussed many of the various aspects of how to efficiently accomplish Patient Safety Goal #6. The following are some of the questions asked and answered in the discussion.

## Is the testing of alarms being overemphasized?

Some say yes, some say no. Essentially checking an alarm according to manufacturer's specifications is a part of a biomedical technician's job every time they service, repair, or calibrate a piece of equipment. In addition to checking the alarms, JCAHO wants biomed to confirm that the alarm can be heard at a distance and through the other noises in the unit.

## How do biomed test for audibility?

The sound levels of an alarm do not measure audibility because some equipment has alarms that can be turned down or even off. This is one of the primary reasons technicians

are having a hard time trying to find a solution to the Patient Safety Goal #6. Several members of the round table stated that their hospitals had agreed that future purchases of critical equipment would be equipment that did not have a volume button. This way the volume could not be manually turned down or off.

## What will JCAHO be looking for?

JCAHO will scrutinize policy and procedure. They will ask for a specific policy in writing. They may ask for documentation on the testing that has been done on alarms. A good way to document this information is to do a basic survey on every alarm tested. Here is an example of a Clinical Alarm Survey that was provided by Boyd Campbell of Catawba Valley Medical.

Department  
Device  
Time activated alarm  
Response time to alarm  
Who responded  
What appropriate action was taken



## How do biomedical departments begin to satisfy the Patient Safety Goal # 6?

First, develop a list of devices that are affected by Goal #6 beginning with the most critical devices. Then, consider the location of the device and staffing schedules. For instance, intensive care patients have a nurse with them 24/7 and are rarely ever left alone. An alarm is answered almost instantaneously. But on a general hospital floor, there may be one nurse to 12 patients. The response time is not as quick and can sometimes go unheard or even ignored. The round table members revealed that many hospitals are already experimenting with telemetry pagers. Each patient is on a different frequency. When an alarm goes off, the pager notifies the nurse which patient and what device. However

Continued on Pg. 10



# Registration Form: 2003 NCBA Symposium

Name: \_\_\_\_\_ CBET \_\_\_\_\_ CCE \_\_\_\_\_ OTHER \_\_\_\_\_

Home Address: \_\_\_\_\_ City, State, Zip \_\_\_\_\_

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Work Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

College or University (Students): \_\_\_\_\_ Current Curriculum: \_\_\_\_\_

Mail future NCBA information to: Home \_\_\_\_\_ Work \_\_\_\_\_ Member of: ASHE \_\_\_\_\_ AAMI \_\_\_\_\_

*Refer questions to Dan Harrison at 800-825-1786, e-mail vicepres@ncbiomedassoc.com or  
Helen Jones at 336-716-3479, e-mail president@ncbiomedassoc.com*

- **Note: Late registration fee in effect after November 14, 2003** •

Late Registration Fees	
<input type="checkbox"/> One Day	\$150
<input type="checkbox"/> Two Days	\$225
<input type="checkbox"/> Three Days	\$275

Late Student Registration Fees	
<input type="checkbox"/> One Day	\$50
<input type="checkbox"/> Two Days	\$74
<input type="checkbox"/> Three Days	\$85

Monday: December 1, 2003	Tuesday: December 2, 2003	Wednesday: December 3, 2003
<input type="checkbox"/> Drager Anesthesia Units <input type="checkbox"/> Managing PACS <input type="checkbox"/> Principles of Radiology <input type="checkbox"/> Principles of Ultrasound <input type="checkbox"/> Study Habits for CBET Certification <input type="checkbox"/> Valleylab LigaSure ESU Systems <input type="checkbox"/> Zoll M Series Defibrillators	<input type="checkbox"/> Datascope Passport 2 Monitors <input type="checkbox"/> Erbe Electrosurgical Units <input type="checkbox"/> Hill Rom Incubators & Workstations <input type="checkbox"/> Power Conditioning and Line Filtration <input type="checkbox"/> Principles of Clinical Lab Equipment <input type="checkbox"/> Puritan Bennett 840 Ventilators *	<input type="checkbox"/> Hazard Alerts and Recalls <input type="checkbox"/> Introduction to Linear Accelerators <input type="checkbox"/> Introduction to Oximetry & Capnography * <input type="checkbox"/> Philips IntelliVue Monitoring <input type="checkbox"/> Radiographic Injectors <input type="checkbox"/> Troubleshooting Diagnostic Ultrasound
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it was mentioned that this only works if the nurse responds to the page. Sometimes a patient can unhook their equipment by rolling over or shifting in the bed. This automatically sets off the alarm. If it happens on a regular basis, a nurse may begin to assume that is what happened and may not respond appropriately.

Among the specific questions, round table members also tossed around some general questions such as: Should all nurses be required to have a hearing test every year? And should alarms have a different speed or tone for each machine? However after speaking with Mr. Boyd Campbell, I pondered the question, should the solution to Patient Safety Goal #6 rely solely on the shoulders of biomed or should other hospital personnel be involved?

I would like to thank Mr. Boyd Campbell, CBET, CRES from Catawba Valley Medical Center's Clinical Engineering Department for taking the time to let me interview him about this subject. He hosted the round table discussion and was able to make Patient Safety Goal #6 a lot clearer for this student.

Submitted by: Susan Zimmer  
Second Year BMET Student  
Caldwell Community College

## Attention NCBA Members

This blank spot is brought to you courtesy of the 400+ members of the NCBA who thought that contributing to the NCBA News was "the other guy's job." The Board of Directors is committed to bringing you the best possible newsletter, but your contribution is essential and badly needed.

Many of you have great stories to tell, technical tips you have learned over the years, opinions you would like to express. All of this and more can be in the next newsletters if you are willing to contribute.

Contributions to the NCBA News can be sent by e-mail to [editor@ncbiomedassoc.com](mailto:editor@ncbiomedassoc.com) or in printed form to the NCBA mail box:

6300-138 Creedmoor Rd.  
Raleigh, NC 27612-6730

**Monday, December 1, 2003**

**Tuesday, December 2, 2003**

**Wednesday, December 3, 2003**

[illegible]



## **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.**

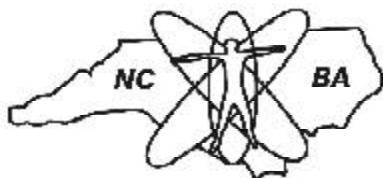
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