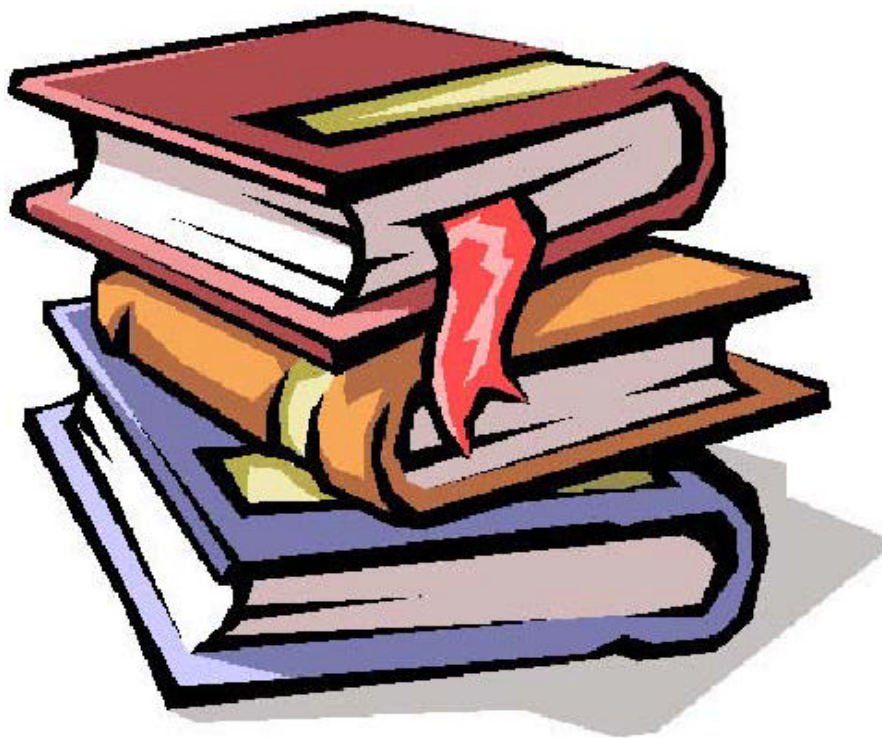


*The*  
North Carolina  
Biomedical  
Association  

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*26th Annual Symposium*



**Pinehurst  
Resort &  
Country Club  
Pinehurst, NC**

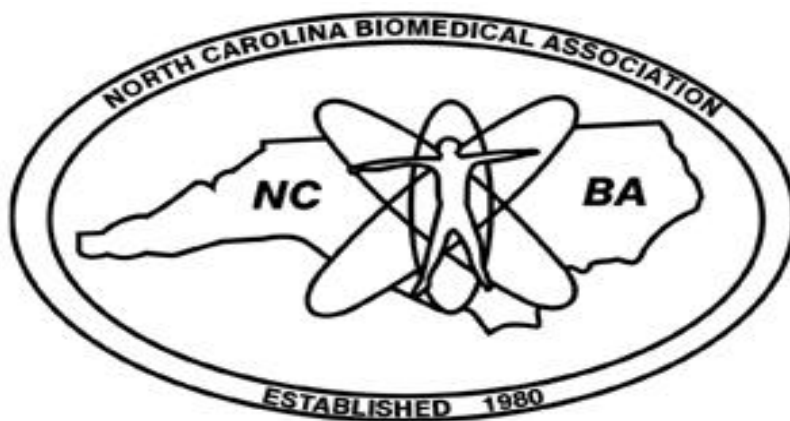
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**December 6-8, 2004**

# North Carolina Biomedical Association

6300-138 Creedmoor Road, PMB 272  
Raleigh, North Carolina 27612-6730

Phone: 919-688-6890  
[www.ncbiomedassoc.com](http://www.ncbiomedassoc.com)



## President's Welcome

As the President of the North Carolina Biomedical Association, I would like to invite you to our twenty-sixth annual Symposium. Hopefully you are a long-time member of this great organization making a return trip to the wonderful Pinehurst Resort. If you are new to the NCBA and are making your first trip, let me be the first to welcome you to a great Symposium put on with the help of many dedicated and talented volunteers. The NCBA Symposium has become synonymous with great educational classes, networking opportunities, and one of the best vendor shows in the country.

This year, I am most proud of the work done by the team in tackling new initiatives that continue to propel the NCBA Symposium forward in our profession. Some of these new opportunities included internet registration, themed class scheduling (also known as “tracks”), and most of all an exceptional listing of educational opportunities. These new initiatives combined with a near sell-out of advance vendor registrations will have the friendly staff at the Pinehurst Resort hopping for three great days. Add to all of this an opportunity to spend a day on the golf course or in the spa, and you have the making of a wonderful start to the holiday season.

This packet includes everything you need to take full advantage of what has become one of the premier educational gatherings for medical technology professionals across the country. Please make time to pre-register to ensure that you get a seat in the class of your choice. Also, don't forget to mail/fax in your hotel and golf registration forms before the deadlines! Lastly, take advantage of the “on-line” registration to ensure speed and convenience. Just visit [www.ncbiomedassoc.com](http://www.ncbiomedassoc.com) and look under “Symposium”.

I am looking forward to sharing another fantastic Symposium with all of you.

See you in December!

A handwritten signature in blue ink that reads "Brian".

Brian Poplin, CHE, CBET  
President, NCBA

## North Carolina Biomedical Association – 2004 Board of Directors

<b>President</b>	Brian R. Poplin, CBET ARAMARK Clinical Technology Svs. 704-948-5761 pres@ncbiomedassoc.com	<b>General Board Member</b>	Michael McCoy St. Francis Hospital 864-255-1084 BOD4@ncbiomedassoc.com
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<b>Ex-Officio</b>	Helen Jones, CBET North Carolina Baptist Hospital 336-713-2891 exofficio@ncbiomedassoc.com	<b>Vendor Coordinator</b>	Tom Barnes ARAMARK Clinical Technology Svs. 434-774-0911 vendor2@ncbiomedassoc.com
<b>General Board Member</b>	Tom Barnes ARAMARK Clinical Technology Svs. 434-774-0911 BOD1@ncbiomedassoc.com	<b>Hotel Coordinator</b>	Helen Jones, CBET North Carolina Baptist Hospital 336-713-2891 hotel2@ncbiomedassoc.com

## Monday December 6, 2004

- 7:30am – 9:00am**      **Registration and Continental Breakfast**
- 8:00am – 4:30pm**      **NCBA Board Meeting**
- 9:00am – 4:00pm**      **“Networking 101” – Todd Boyland, Radiological Service Training Institute**  
This course will cover the basic principles in understanding how today's networks are built, the hardware that makes networking possible, and the protocol that supports most networking worldwide, TCP/IP. Understanding of networking and TCP/IP is essential in today's film less imaging departments, since DICOM is built directly over the top of the TCP/IP protocol. Topics include network topology, network hardware, IP addressing, sub netting, routing, TCP/IP installation, configuration, and TCP/IP troubleshooting.
- 9:00am – 4:00pm**      **“Introduction to Linear Accelerators” – Mike Rubino, Siemens Medical Systems**  
This is an introduction to the theory of operation as well as the repair and maintenance of a linear accelerator. Ideal candidates for attendance are biomedical engineers and technicians who will perform first call service.
- 9:00am – 4:00pm**      **“Troubleshooting Diagnostic Ultrasound” – Joe Weidner, CRES, DITEC, Inc.**  
Learn the basics of ultrasound systems operation, maintenance, and quality assurance procedures. Upon completion, you will be able to demonstrate an understanding of ultrasound physics, phase and linear array transducers, pulsed and continuous wave Doppler, and define the selection criteria for scanning formats. Those who should attend are those professionals desiring to benefit from the increasing opportunities in radiology service.
- 9:00am – 12:00pm**      **“Web Page Design” – Ira Duncan, Caldwell Community College**  
During this class, the students will learn HTML coding basics, page layout, hyperlink properties, image insertion/editing and how to publish and maintain a web site for their Biomed department.
- 9:00am – 10:30am**      **“Portable Radiated Emissions Meas. System” – Kim L. Craven, Duke Power Company**  
This presentation is about a demonstration project at Catawba Valley Medical Center that used new automated EMI monitoring equipment developed by Duke Power. The purpose of the demonstration was to show the capabilities and advantages of using automated equipment (built around a spectrum analyzer) to proactively characterize the electromagnetic environment and to research any EMI issues at a healthcare facility.
- 9:00am – 10:30am**      **“Humor in the Workplace” – Suzanne Riley, FirstHealth of the Carolinas**  
By the end of the class, participants will be able to discuss at least four advantages of promoting humor in the workplace; describe at least three destructive ways that humor can be misused; practice the art of laughter.
- 10:30am – 12:00pm**      **“Interviewing Skills” – Georgeanne McDaniel, FirstHealth of the Carolinas**  
Interviewing skills, techniques and strategies you must know to compete in today's market.
- 10:30am – 12:00pm**      **“Reducing Ultrasound Service Costs” – G. Wayne Moore, Sonora Medical Systems**  
This presentation is aimed at ultrasound service professionals and touches on virtually all aspects of ultrasound service, with a particular focus on ultrasound probes and on improving the level of clinical quality of ultrasound equipment through service strategies.
- 12:00am – 1:00pm**      **Lunch – Oakley Room**
- 1:00pm – 4:30pm**      **“Introduction to Dräger Anesthesia” – Paul Gordon, Dräger Medical**  
An overview of our “traditional” anesthesia machines. Identification of currently supported models, basic operational features, and safety components, including the NM6000 series of anesthesia machines and both the Fabious GS and Primus anesthesia systems .
- 1:00pm – 4:30pm**      **“Preparing for CBET Certification” – John Noblitt, B.S., CBET, Caldwell Community College and David Wilson, B.A., CBET, Stanly Community College**  
This class will discuss how to prepare for the CBET exam. Topics will include mathematics, basic electronics, medical terminology and other areas of study such as instrumentation and safety. Textbooks that will help in the preparation will also be a point of interest for this seminar. Study habits and strategies for taking tests will also be covered.

**1:00pm – 2:30pm**

**“Customer Service Skills” – Linda Cooke, FirstHealth of the Carolinas**

Participants will be able to describe four features of excellent customer service, practice service recovery techniques and differentiate between internal and external customers.

**2:30pm – 4:30pm**

**“Career Roundtable: Dress for Success” – Linda Leitch, Durham Regional Hospital and Mike McCoy, St. Francis Hospital**

What you see is what you get... or is it?" Discover how to enhance your professional presence to ensure your effectiveness and success. The impression you make and how that can help or hurt you. Looking, acting, and dressing for your current positioning; the importance of projecting a positive professional image. Some general "Dos" and "Don'ts" for your work environment and useful tips to help you before the interview.

**5:00pm – 7:00pm**

**Exhibit Hall Opening Reception**

**Tuesday December 7, 2004**

**7:30am – 8:30am**

**Registration**

**8:00am – 9:00am**

**Welcome Reception in the Olmsted Room**

**9:00am – 12:00am**

**Visit the Vendors/Continental Breakfast**

Make sure you visit all the exhibitors for the latest products and technology in the market that will be displayed for the NCBA members.

**12:00pm – 1:30pm**

**NCBA Lunch and Business Meeting**

- Buffet provided
- Annual Business Meeting
- Election of new NCBA Board Members

**1:30pm – 4:30pm**

**“Effective Negotiating” – Manny Roman, CRES, DITEC, Inc.**

Participants will learn skills necessary for effective negotiations.

**1:30pm – 4:30pm**

**“Introduction to BiPAP Vision Service” – John Curry, Respironics**

The half day class will involve lecture, hands on and demonstrations. Topics will include Vision overview, user interface lecture/workshop, pneumatics theory, electronics theory, diagnostics lecture/workshop and a Q & A session.

**1:30pm – 4:30pm**

**“Introduction to Portable X-Ray Machines” – William J. Bentley, Mobile X-Ray Solutions**

The portable x-ray machine is one of the most critical and valuable pieces of equipment in a hospital due to the sheer flexibility it affords. The portable typically suffers abuse and is under appreciated by many who use it in their job. You will come away from this session with a new understanding of the portable and its use in your day to day work environment.

**1:30pm – 4:30pm**

**“JCAHO Roundtable: 2004 CE Standards” – Binseng Wang, Aramark Clinical Technology Services**

We will discuss changes JCAHO introduced to its Clinical Engineering standards for 2004 and the questions and concerns they generated in the CE community. We will also report the conclusions and proposals made by a Study Group organized to review these changes and proposed revisions.

**1:30pm – 4:30pm**

**“Phillips Clinical Network” – Mark Bradley, Philips Medical Systems**

This presentation will cover the building blocks of clinical network interoperability, implementing the ethernet architecture in the clinical environment and the Philips clinical network and portal technology.

**1:30pm – 4:30pm**

**“Principles of Clinical Lab Equipment” – Stephen Maull, DITEC, Inc.**

Clinical Lab presents a tremendous opportunity for service organizations to enhance and expand their offerings to their customers. Servicing the lab presents the opportunity to offer real cost savings as well as customer satisfaction. This session will focus on the functions and processes of the various Clinical Lab departments. Emphasis will be on the equipment and services which can be provided to better serve the department.

**1:30pm – 4:30pm**

**“Valleylab Force FX ESUs” – Mark Donaldson, Valleylab, Inc.**

At the end of the course the attendee will be familiar with the medical applications of Valleylab equipment; the theory of operation; preventative maintenance requirements and test procedures; troubleshooting techniques and PER Power Efficiency Rating

**5:00 pm – 7:00pm**

**Vendor’s Social**

Use this time to relax and socialize with the vendors and other members. We will have prize drawings. A cash bar will be open with light hors d’ oeuvres. **PLEASE DO NOT DRINK AND DRIVE!**

**7:00pm – 9:00pm**

**NCBA Dinner**

A special dinner prepared by the incomparable Pinehurst Hotel chefs especially for the NCBA!

**Wednesday December 8, 2004**

**8:00am – 9:00am**

**Registration and Continental Breakfast**

**9:00am – 4:00pm**

**“Principles of CT” – John Engel, CRES, DITEC, Inc.**

This seminar presents an introduction to the CT modality. The history and development of CT is traced and generic CT processing, data acquisition, x-ray and image reconstruction techniques are discussed. State-of-the-art techniques will be introduced and discussed as well as typical problems encountered in CT Systems.

**9:00am – 4:00pm**

**“Implementing RIS / PACS” – Larry R. Cornell Sr., MTS Delft**

This presentation will cover identifying hospital needs; designing the solution; selecting the right RIS/PACS partner; writing RIS/PACS bid specs; implementing the process; in-house maintenance - Who does it? and growing to Enterprise Electronic Medical Records (EMR).

**9:00am – 12:00pm**

**“Introduction to PulseOx and End Tidal CO<sub>2</sub>” – Tim Sharkey, Nellcor**

In this class we will review the history of pulse oximetry. Then we will look at the present day technology. Troubleshooting pulse oximetry challenges will be reviewed and then we will take a look at the future of pulse oximetry.

**9:00am – 12:00pm**

**“JCAHO Survival Skills” – Matthew F. Baretich, P.E., Ph.D., Baretich Engineering**

This presentation will cover JCAHO standards updates; medical equipment management plans that work and new trends in planned maintenance.

**9:00am – 12:00pm**

**“Wireless Patient Monitoring” – Dräger Medical, David H. Hoguland**

Fundamentals of wireless networking to include the history and theory of 802.11 and 802.11b. Further understanding of 802.11g, 802.11a. Bluetooth, and to include the latest policies in 802.11i and 802.11e. The landscape of switched wireless networking, RF-ID, VOIP, and the landscape of what is happening in the wireless healthcare marketplace.

**10:00am – 3:30pm**

**NCBA Golf Tournament**

The NCBA Golf Tournament returns to Pinehurst to play Course # 1. The course provides an interesting variety of holes. Long and short par 4’s, uphill and downhill approach shots, makes course # 1 a solid golf course and a delight to play.

**12:00am – 1:00pm**

**NCBA Lunch and Prize Drawing**

**1:00pm – 4:00pm**

**“Financial Skills/ Understanding your Administrator” – Brian Poplin, CHE, CBET, ARAMARK Clinical Technology Services**

Dealing with the expectations of hospital administrator’s can be a challenge for all levels of biomedical engineers & managers. In the first half of this class you will learn the basics of financial reporting and what makes up financial statements. Additionally, the second portion of the class will be an overview of the major components & challenges that administrators deal with in their operational roles.

**1:00pm – 4:00pm**

**“Frequency Hopping Telemetry” – David Pettijohn, GE Healthcare Information Technologies**

The impact of Digital TV and land mobile communications on biomedical telemetry; new FCC rules for biomedical telemetry; implications of the new FCC rules in medical telemetry; new systems opportunities created by the new rules; clinical and IT implications

**1:00pm – 4:00pm**

**“The Future of Clinical Engineering” – Matthew F. Baretich, P.E., Ph.D., Baretich Engineering**

Topics to be discussed are patient safety, teamwork with clinicians, information technology and not becoming a commodity.



NORTH CAROLINA BIOMEDICAL ASSOCIATION

EUROPEAN PLAN

DECEMBER 6-8, 2004

Welcome to the beautiful, 4-Star/4-Diamond Pinehurst Resort! We are honored to be your hosts and we look forward to serving you! Please take a moment to fill out this reservation form to ensure your accommodations for your upcoming visit.

Pinehurst is requiring a 30-day cut off period for your room reservations. Reservations received after this date will be processed on a "space-available basis." THE PINEHURST RESORT CONSISTS OF A VARIETY OF LODGING ACCOMMODATIONS INCLUDING THE CAROLINA HOTEL, VILLAS, MANOR INN, HOLLY INN, AND CONDOMINIUMS. THE RESORT WILL MAKE EVERY EFFORT TO HONOR SPECIFIC ROOM REQUESTS. IF NOT POSSIBLE, THE BEST SUBSTITUTION WILL BE MADE. Please be aware that forms must be completed and returned by **NOVEMBER 5, 2004.**

Please Check Desired Occupancy: (Resort Accommodations)
DAILY RATES: EUROPEAN PLAN: RESORT ACCOMMODATIONS

SINGLE OCCUPANCY: \_\_\_ \$152.08 DOUBLE OCCUPANCY: \_\_\_ \$76.04 PER PERSON

SERVICE CHARGE & STATE SALES TAX: Rates are INCLUSIVE of a 10% service charge, 7% state sales tax, and 3% occupancy tax on room portion only.

Covered in the Resort Service fee are the following amenities and services:

- ? Unlimited access to the Fitness Center ? On-site transportation ? Tennis courts
? Beach Club ? Outdoor pools ? Bicycles
? Afternoon tea in the Carolina ? Business Center ? Practice putting greens
? Pitching areas ? Driving range ? In-coming faxes

HOTEL PARLOR - \$90.00++ PER NIGHT

ROOM PREFERENCE (based on availability): \_\_\_NON-SMOKING \_\_\_SMOKING

ARRIVAL DATE: \_\_\_\_\_ DEPARTURE DATE: \_\_\_\_\_

Check-In Time 4:00 PM — Check-Out Time 12:00 Noon

DEPOSIT & CANCELLATION POLICY: A deposit representing one night's rate per person is charged at the time the reservation is made. Pinehurst must receive notice of any cancellation at least 30 days prior to date of arrival in order to refund a deposit. The reservation deadline is November 5, 2004.

Please fill out and fax or mail with deposit to: Convention Reservations FAX: 910-235-8503
\*Pinehurst cannot accept individual telephone reservations\* Pinehurst Resort Phone: 910-295-6811
P.O. Box 4000
Pinehurst, NC 28374-4000

ROOM(S) TO BE OCCUPIED BY: (Please print or type) (All guests will be charged a one-night room deposit)

Name: \_\_\_\_\_ Address: \_\_\_\_\_

Credit Card Name & Number \_\_\_\_\_

Expiration Date & Cardholder Name \_\_\_\_\_

Telephone Number: (Home) \_\_\_\_\_ (Business) \_\_\_\_\_

\*\*\*\*ASSOCIATE CLUB MEMBERS\*\*\*\* WE LIKE TO RECOGNIZE ALL OF OUR ASSOCIATE CLUB MEMBERS.

PLEASE FILL OUT THE FOLLOWING INFORMATION:

CLUB WITH WHICH YOU ARE AFFILIATED: \_\_\_\_\_

YOUR MEMBER NUMBER: \_\_\_\_\_

NOTE: This is a Hotel reservation form — DO NOT send this to the NCBA

# NCBA 2004 Symposium Event Schedule

## Monday, December 6, 2004

	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		■	■	■	■	■	■	■	■	■						Conv. Office
Vendor Setup			■	■	■	■	■	■	■	■						Exhibit Hall
Networking 101 (IT)			■	■	■	■	■	■	■	■						South
Introduction to Linear Accelerators (SPE)			■	■	■	■	■	■	■	■						Ross
Troubleshooting Diagnostic Ultrasound (SPE)			■	■	■	■	■	■	■	■						Tufts
Web Page Design (IT)			■	■	■	■	■	■	■	■						North
Portable Radiated Emissions Meas. System (GEN)			■	■	■	■	■	■	■	■						Azalea
Humor in the Workplace (GEN)			■	■	■	■	■	■	■	■						Dogwood
Reducing Ultrasound Service Costs (SPE)					■	■	■	■	■	■						Azalea
Interviewing Skills (ENT)					■	■	■	■	■	■						Dogwood
Lunch							■	■	■	■						Oakley
Introduction to Dräger Anesthesia (GEN)							■	■	■	■						Azalea
Preparing for CBET Certification (GEN)							■	■	■	■						North
Customer Service Skills (GEN)							■	■	■	■						Dogwood
Career Roundtable: Dress for Success (MGT)									■	■						Dogwood
Exhibition Hall Opening Reception											■	■	■	■	■	Exhibit Hall

## Tuesday, December 7, 2004

	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	Location
Registration		■														Conf. Center Foyer
Welcome Reception		■														Olmsted
Visit the Vendors / Cont. Breakfast			■	■	■	■	■	■	■	■						Exhibit Hall
NCBA Lunch & Business Meeting						■	■	■	■	■						Callaway/Oakley
Effective Negotiating (MGT)							■	■	■	■						Dogwood
Introduction to BiPAP Vision Service (GEN)							■	■	■	■						Ross
Introduction to Portable X-Ray Machines (SPE)							■	■	■	■						North
JCAHO Roundtable: 2004 CE Standards (MGT)							■	■	■	■						Olmsted
Phillips Clinical Network (IT)							■	■	■	■						North
Principles of Clinical Lab Equipment (SPE)							■	■	■	■						Tufts
Valleylab Force FX ESUs (GEN)							■	■	■	■						South
Vendor's Social											■	■	■	■	■	Exhibit Hall
NCBA Dinner														■	■	Cardinal Ballroom

## Wednesday, December 8, 2004

	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	Location
Registration		■														Conf. Center Foyer
Principles of CT (SPE)			■	■	■	■	■	■	■	■						Ross
Implementing RIS / PACS (IT)			■	■	■	■	■	■	■	■						South
Introduction to PulseOx and End Tidal CO <sub>2</sub> (GEN)			■	■	■	■	■	■	■	■						Tufts
JCAHO Survival Skills (GEN)			■	■	■	■	■	■	■	■						Callaway
Wireless Patient Monitoring (SPE)			■	■	■	■	■	■	■	■						North
Lunch & Door Prize Drawing						■	■	■	■	■						Oakley
Financial Skills/ Understanding your Admin (MGT)							■	■	■	■						Tufts
Frequency Hopping Telemetry (GEN)							■	■	■	■						North
The Future of Clinical Engineering (GEN)							■	■	■	■						Callaway
Golf Tournament				■	■	■	■	■	■	■						Pinehurst # 1

ENT – Entry Level    GEN – General Biomed    SPE – Specialist    IT – Information Technology    MGT - Management

# Speaker Profiles

**Matthew F. Baretich, P.E., Ph.D. – Baretich Engineering.** Matt Baretich is President of Baretich Engineering Inc. in Fort Collins, Colorado. He is a licensed professional engineer, a certified clinical engineer, and a certified healthcare facility manager. He is a Fellow of the American College of Clinical Engineering and a founding member of that organization. Matt consults in the areas of clinical engineering, healthcare facilities engineering, and safety management. He also provides incident investigation and expert witness services regarding medical devices and building systems. Dr. Baretich is a graduate of Iowa State University (B.S. Electrical Engineering and M.S. Biomedical Engineering) and the University of Iowa (Ph.D. Hospital and Health Administration).

**William J. Bentley – Mobile X-Ray Solutions.** William J. Bentley, who prefers to be known as Bill, was born in Fayetteville, NC, where he began his colorful and diverse career working as a detective with the Fayetteville Police Dept. Bill attended college in Jacksonville, Florida and moved to Augusta, GA in 1976 where he began a career in the automobile business as Bentley's Paint and Body. He specialized in restoration of luxury and exotic vehicles such as Ferraris and Lamborghinis for 15 years. Bill is the definition of "entrepreneur" and currently owns and operates four businesses under the umbrella of Bentley Enterprises. The businesses vary from rebuilding and supporting portable x-ray machines to a production business and motorcycle diagnostics and repair.

**Todd Boyland – Radiological Service Training Institute.** Todd joined RSTI as an instructor in September 2001. His expertise in various areas of computer networking and administration qualified him to develop updated curriculum and serve as Lead Instructor for RSTI's Film less Integration classes, including Phase V (PACS, Networking, DICOM and MCSE Preparation), Fundamentals of Networking, and DICOM Standards/Connectivity. Todd also teaches analog and digital mammography systems. In addition to his duties as an Instructor, Todd manages RSTI's Intranet and computer network. Todd graduated with B.S. in Business Administration from Alfred University (Alfred, NY) in May 2001.

**Mark Bradley – Philips Medical Systems.** Mark holds a Bachelor of Science in Clinical Engineering from Milwaukee School of Engineering. He has been with Hewlett-Packard Medical, now Philips Medical Systems, since 1979. Mark's roles at HP/Philips have included Customer Service Engineer in Chicago and Minneapolis, and Senior Instructor and Learning Products Developer at the Philips Education Center in Atlanta. Mark currently is the Philips Patient Monitoring Technical Consultant for the Eastern United States. Mark lives in Atlanta and enjoys off-road motorcycling, camping, and outdoor activities with his family.

**Linda Cooke – FirstHealth of the Carolinas.** BS in Business Management and an MBA (Masters in Business Administration). I have worked in the training and development field for 13 years and have been working in healthcare for 10 years. Provide training on variety of topics: management, customer service, teambuilding and interpersonal skills. Provide performance consulting and facilitation for performance improvement. I have presented to the NCBA in the past as well as for the NC Admitting Directors Association.

**Larry R. Cornell Sr. – MTS Delft.** Larry Cornell has been involved in training and management in the medical imaging industry for the last 33 years. He was training manager for Picker International for 15 years. He was a co-founder of the Radiological Service Training Institute (RSTI) where he taught imaging for the next 15 years. He is currently president of the informatics division of MTS Delft.

**Kim L. Craven – Duke Power Company.** Kim L. Craven, P.E., is a Senior Engineer, Retail Services for Duke Power in Charlotte. He received his B.S. degree in Electrical Engineering at North Carolina State University in Raleigh, North Carolina in 1977. He graduated with Honors, and was a member of Eta Kappa Nu. His main area of study was Power Engineering. Mr. Craven began with Duke Power in 1977 as a Distribution-in-Training.

**John Curry – Respirationics.** John Curry has 15 years experience working in field service, tech support, service manager for Latin America and Technical Education. During this time I have been involved in writing service manuals, field communications, Service CD, Web based training, development of training presentations and training material.

**Mark Donaldson – Valleylab.** Mark is a certified professional technical trainer. Mark has conducted formal technical training on Valleylab Surgical products for 21 years all over the world. His training courses are designed for the Biomedical Engineer/Technician and include theory of operation, testing and calibration, and hands on troubleshooting to board and component level.

**Ira Duncan – Caldwell Community College.** Ira Duncan graduated from CCCTI's first Biomedical program in 1981. Worked for American Medical International at various locations in the Carolinas and Alabama. Worked as a Senior Field Engineer for electronic firm for 10 years. Back to college in 1998 and landed a job teaching computers, networking (Cisco) and web page design. Currently I am the Network manager and Web developer for CCCTI. Married 27 years, 2 grown kids and one lousy golf game.

**John Engel, CRES – DITEC, Inc.** John Engel served in the U.S. Navy for 17 years, achieving the rating of Chief Fire Control Technician. He served two tours as an instructor in radar, computers (digital and analog), missile telemetry, and system analysis. In 1977, while in the Navy he was awarded a B.S. in Occupational Education from Southern Illinois University. Leaving the Navy in 1978, he worked with the vendor developing the Aegis Weapon System training course. In 1980 he joined a major industrial control manufacturer in Detroit, Mi where he developed and taught courses in programmable controllers. In 1983 he joined a major industrial control manufacturer in Cleveland, OH as a technical writer. In 1986 he joined a major diagnostic imaging equipment manufacturer in Cleveland, OH as a Senior Instructor where he designed, developed, and presented Diagnostic Imaging courses in Magnetic Resonance Imaging, Computed Tomography, and Medical Workstations. In 2000, he joined DITEC, Inc. John is certified by the International Certification Commission (ICC) as a Certified Radiological Equipment Specialist (CRES #387494).

**Paul Gordon – Dräger Medical Inc.** Mr. Gordon has been an instructor for anesthesia systems for the last five years with Dräger Medical, Inc. His background also includes; hospital based technician, supervisor for Clinical Engineering at Riddle Memorial Hospital in Media, PA, and a field service tech with Dräger Service. Mr. Gordon serves as the lead instructor for the Narkomed 6000 series products as well as an integral cross functional role in the critical care and monitoring technical seminars. He is also a member of the local biomedical association (PAMIA) Philadelphia Area Medical Instrumentation Assoc. Over the past five years Paul has presented special seminars and has appeared as a guest lecturer at various locations across the U.S.

**Linda Leitch – Durham Regional Hospital.** Linda holds a BS degree in Business Administration from North Carolina Wesleyan College and A.A.S. in Electronic Engineering from Alamance Community College. Over the past 10 years, she has worked at Durham Regional Hospital maintaining biomedical equipment such as: Fetal and Patient Monitoring, Telemetry Database Server Networks, and Hemodialysis. She has been elected to the NCBA Board of Directors twice, holding positions of Recording Secretary, Treasurer, and Vice President.

**Stephen Maull, CRES – DITEC, Inc.** Stephen Maull served in the US Air Force for 10 years after attending Miami University, where he received a Bachelors Degree in Business Administration. Upon joining the Air Force in 1991, he was trained as a Biomedical Equipment Technician at Sheppard AFB, TX. In 1994, he was stationed at MacDill AFB, Tampa FL, where he became the primary clinical laboratory maintenance technician in charge of maintaining and documenting all lab equipment maintenance and training. In 1997 he returned to Sheppard AFB as a BMET and Laboratory Equipment Instructor and Curriculum Developer. He was an instrumental member of a four-man development team that merged the BMET training of the Army, Navy, and Air Force into one department of Defense School centrally located at Sheppard AFB. Stephen is a systems Training Specialist at DITEC, Inc.

**Mike McCoy – St. Francis Hospital.** Mike is employed as the Clinical Engineering Manager at St. Francis Hospital in Greenville, SC.

**Georgeanne McDaniel – FirstHealth of the Carolinas.** Georgeanne holds a Bachelor of Science from UNCG with a degree in Nursing. She has worked in areas such as: Medical/Surgical, Oncology, Emergency, ICU, Telemetry, Outpatient, Physicians Office, and Home Health. She has also held the title of Assistant Director of Nursing, and was placed as the Director of Nursing, a Vice-President by a temporary staffing agency. Georgeanne is currently the Manager of Employee Relations at FirstHealth of the Carolinas. She has conducted many workshops including: Leadership, Communication, Quality Management Skills, Customer Service, Coaching and Counseling for Success, Performance Evaluations, Working with Difficult Employees, Interviewing for the right Fit, and Mentoring.

**G. Wayne Moore – Sonora Medical Systems.** President and CEO of Sonora Medical Systems. A twenty-year veteran of the diagnostic ultrasound market. Mr. Moore has held senior level positions with several major medical manufacturers, including Sr. Director of Business Development for Siemens Medical Systems. Mr. Moore has an undergraduate degree in Electrical Engineering and a Masters in Business Administration from the University of Denver. Mr. Moore holds several patents in ultrasound technology.

**John Noblit, B.S., CBET – Caldwell Community College.** A.A.S. in Biomedical Equipment Technology, Alamance Community College Graduate from RSTI X-Ray School 1986. B.S. in Education Western Carolina University. CBET certified in 1987. 2002 recipient on NCBA Professional of the Year. Formerly employed by: SunHealth, Inc. Corometrics Medical Systems, currently employed as BMET Program Director, Caldwell Community College. Elected to NCBA board of directors 3 times. Former Treasurer, Newsletter Editor. Current Board Member.

**David Pettijohn, GE Healthcare Information Technologies.** Mr. Pettijohn has been in technology and corporate management of medical telemetry manufacturers for 24 years. Mr. Pettijohn is an MSEE graduate of MIT in Electrical Engineering and Physics. Mr. Pettijohn completed the Ph.D. curricula in both Theoretical Physics and Electrical Engineering before founding the Electronics Laboratory in the MIT Department of Physiology and Brain Science, which he operated and managed for 14 years, in addition to teaching electronics and computer courses at MIT.

**Brian R. Poplin, CHE, CBET – ARAMARK Clinical Technology Services.** Brian joined ARAMARK HMS – CTS in 1999 as the Business Manager at Duke University. In 2001 he was promoted to the Clinical Engineering Manager at Duke and has since held various management positions within the CTS organization. Currently, Brian is the Vice President of Operations for CAPP (Capital Asset Protection Program) and Field Pricing. Brian earned his Bachelors Degree in Business Administration as well as his MBA from Indiana Wesleyan University. Brian is a Certified Biomedical Equipment Technician as well as a Certified Healthcare Executive.

**Suzanne Riley – FirstHealth of the Carolinas.** Suzanne is the Director of Corporate Education, FirstHealth of the Carolinas, Pinehurst NC.

**Manny Roman, CRES – DITEC, Inc.** Manny Roman is President and co-founder of the Diagnostic Imaging Technical Education Center, Inc.(DITEC) an independent radiology service training institute in Solon, Ohio. With over twenty years in the radiology maintenance profession his knowledge of radiology is extensive. It includes design, developing, conducting and managing diagnostic imaging service training and support programs for original equipment manufactures, independent service organizations, and in-house hospital service professionals. His electronics training was received during his ten years in the US Army where he taught electronics and radar maintenance courses for four years. He has an AS degree from Cochise College, Douglas Arizona and is a member of numerous Biomedical Engineering Societies throughout the country. He is the 158th person to hold certification as a Certified Radiological Specialist. Manny is also listed in the U.S. Registry's Who's Who Among Outstanding Americans. Manny has been interviewed numerous times by industry publications and is a published author in diagnostic imaging.

**Tim Sharkey – Nellcor.** Thirty-two years in respiratory care. Last five with Nellcor as a Clinical Consultant. Registered as a Respiratory Therapist, board certified as a Neonatal Pediatric Specialist, Registered Pulmonary Functional Technologist, and Registered Polysomnography Technologist.

**Binseng Wang – ARAMARK Clinical Technology Services.** Binseng Wang, Senior Director, Program Support and Quality Assurance, at ARAMARK Healthcare Management Services, is responsible for providing biomedical equipment and quality assurance support to several hundreds of hospital-based clinical engineering programs. He began his career in Brazil, where he worked in academia and for the government. Before joining ARAMARK, he was a visiting scientist at NIH and a Vice President at MEDIQ/PRN. Mr. Wang earned a doctorate from MIT and is certified both as a clinical engineer and as an ISO 9000 auditor. He has been elected fellow by the American College of Clinical Engineering and by the American Institute of Medical and Biological Engineering.

**Joe Weidner, CRES – DITEC, Inc.** Joe Weidner is Vice President and co-founder of the Diagnostic Imaging Technical Education Center, Inc. (Ditec) an independent radiology service training institute in Solon, Ohio. Joe served in the U.S. Army for 3 years. He held several positions with duties including the calibration and repair of various electronic equipment. Joe has an Associates Degree in Electronic /engineering Technology from the Electronic Technology Institute of Cleveland, Ohio. The degree was awarded in 1976. Joe joined a major diagnostic imaging equipment manufacture (picker International, Cleveland, Ohio) in 1976 as a technical instructor where he progressed to the position of Systems Instructor. His expertise in x-ray, ultrasound, computed tomography and nuclear medicine is why Mr. Weidner is considered one of the top imaging experts in the diagnostic Imaging industry. He is certified by the International Certification Commission (ICC) as a certified Radiological Equipment Specialist (CRES # 164).

**David Wilson, B.A. CBET – Stanly Community College.** David Wilson graduated from Stanly Community College in 1987 with an AAS degree in Biomedical Equipment Technology. His career began with Alliance Medical as a purchasing agent and materials manager for durable-medical-equipment. In 1989, he was employed by NorthEast Medical Center as their first Biomed, and from there became an integral part of the development of their BMET program. He became manager of Clinical Equipment in the mid 1990's. David has earned a BA degree in Business Administration from Montreat College. He is AAMI certified and is the Program Director and Instructor for Biomedical Equipment Technology at Stanly Community College in Albemarle, NC. David's lovely wife Karen is also in the medical field. They reside in Concord, NC and have two children Summer(11) and Masdon(5). David is active in his local church, and community.

# 2004 NCBA Symposium Registration Form

Name: \_\_\_\_\_ CBET \_\_\_ CCE \_\_\_ Other \_\_\_\_\_

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

Home Phone: \_\_\_\_\_ Home Email: \_\_\_\_\_

Facility/Company : \_\_\_\_\_ Occupation/Position \_\_\_\_\_

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

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

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

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

*Refer questions to Chad Granade at 828-698-7194, e-mail [vp@ncbiomedassoc.com](mailto:vp@ncbiomedassoc.com) or  
Brian Poplin at 704-948-5761, e-mail [pres@ncbiomedassoc.com](mailto:pres@ncbiomedassoc.com)*

**• Note: Late registration fee in effect after November 19, 2004 •**

Mail check and registration form to:  
NCBA, 6300-138 Creedmoor Rd, PMB 272, Raleigh, NC 27612-6730

<u>Advance Registration Fees</u>	<u>Late Registration Fees</u>	<u>Adv. Student Registration Fees</u>	<u>Late Student Registration Fees</u>
<input type="checkbox"/> One Day            \$125	<input type="checkbox"/> One Day            \$150	<input type="checkbox"/> One Day            \$40	<input type="checkbox"/> One Day            \$50
<input type="checkbox"/> Two Days           \$200	<input type="checkbox"/> Two Days           \$225	<input type="checkbox"/> Two Days           \$60	<input type="checkbox"/> Two Days           \$74
<input type="checkbox"/> Three Days        \$250	<input type="checkbox"/> Three Days        \$275	<input type="checkbox"/> Three Days        \$70	<input type="checkbox"/> Three Days        \$85

<u>Monday: December 6, 2004</u>	<u>Tuesday: December 7, 2004</u>	<u>Wednesday: December 8, 2004</u>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Career Roundtable: Dress for Success (PM ¼ day)</li> <li><input type="checkbox"/> Customer Service Skills (PM ¼ day)</li> <li><input type="checkbox"/> Humor in the Workplace (AM ¼ day)</li> <li><input type="checkbox"/> Interviewing Skills (AM ¼ day)</li> <li><input type="checkbox"/> Introduction to Dräger Anesthesia (PM only)</li> <li><input type="checkbox"/> Introduction to Linear Accelerators (Full day)</li> <li><input type="checkbox"/> Networking 101 (Full day)</li> <li><input type="checkbox"/> Portable Emissions Meas. System (AM ¼ day)</li> <li><input type="checkbox"/> Preparing for CBET Certification (PM only)</li> <li><input type="checkbox"/> Reducing Ultrasound Service Costs (AM ¼ day)</li> <li><input type="checkbox"/> Troubleshooting Diagnostic Ultrasound (Full day)</li> <li><input type="checkbox"/> Web Page Design (AM only)</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Effective Negotiating (PM only)</li> <li><input type="checkbox"/> Intro. to BiPAP Vision Service (PM only)</li> <li><input type="checkbox"/> Intro. to Portable X-Ray Machines (PM only)</li> <li><input type="checkbox"/> JCAHO Roundtable: 2004 CE Standards (PM only)</li> <li><input type="checkbox"/> Phillips Clinical Network (PM only)</li> <li><input type="checkbox"/> Principles of Clinical Lab Equipment (PM only)</li> <li><input type="checkbox"/> Valleylab Force FX ESUs (PM only)</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Financial Skills/ Understanding your Admin (PM only)</li> <li><input type="checkbox"/> Frequency Hopping Telemetry (PM only)</li> <li><input type="checkbox"/> Implementing RIS / PACS (full day)</li> <li><input type="checkbox"/> Intro. to PulseOx and End Tidal CO2 (AM only)</li> <li><input type="checkbox"/> JCAHO Survival Skills (AM only)</li> <li><input type="checkbox"/> Principles of CT (full day)</li> <li><input type="checkbox"/> The Future of Clinical Engineering (PM only)</li> <li><input type="checkbox"/> Wireless Patient Monitoring (AM Only)</li> </ul>

# NCBA "Classic" Golf Tournament

We return to Pinehurst to play Course # 1. The course provides an interesting variety of holes. Long and short par 4's, uphill and downhill approach shots make Course #1 a solid golf course and a delight to play.

**December 8, 2004**

**10:00 am Shotgun Start**

**Weather permitting**

So line up your team. See the registration form on our web site or in the NCBA Newsletter.

[http://www.ncbiomedassoc.com/events\\_sym\\_golf.htm](http://www.ncbiomedassoc.com/events_sym_golf.htm)

**Registration deadline**

**November 1, 2004**

**\$50 per person or**

**\$280 for a group of 4**

**Includes golf fees, range balls and cart fees**

Contact Mike McCoy at 864-255-1084 or  
E-Mail [golf@ncbiomedassoc.com](mailto:golf@ncbiomedassoc.com)



# 2003 NCBA Annual Symposium Vendors

A.A.M.I. \*  
Accuserve, Inc.  
Advanced Sterilization Products  
Alaris Medical Systems  
ALCO Sales and Service Co.  
Alpha Source, Inc.  
American I.V. Products, Inc. \*  
ARAMARK – CTS \*  
B. Braun Medical \*  
Battery Clinic, Inc.  
Baxter Healthcare  
BC Group International, Inc.  
Beta Biomed Services, Inc.  
Caldwell Community College \*  
CF Medical, Inc.  
ConMed Corporation \*  
Curbell, Inc. \*  
Dale Technology, Inc.  
Datascope Corp. \*  
Datex-Ohmeda, Inc.  
Digitec Medical Service Corp.  
DITEC, Inc. \*  
Dräger Medical, Inc.  
ERBE USA, Inc.  
Express Systems & Parts Network, Inc.  
Florida Medical Consultants, Inc.  
GE Med Systems - IT Cardiology  
GE Med Systems - IT Critikon \*  
GE Med Systems - IT Monitoring  
GE Med Systems - IT Perinatal \*  
GE Medical Systems \*  
Healthtech Publishing (24X&7) \*  
Hospital Communications Systems, Inc. \*  
Imaging Associates, Inc.  
Intermed, Inc.  
Interpower Products, Inc. \*  
Intratek Corp.  
J&J Imaging Solutions, Inc. \*  
Lee Hartman & Sons, Inc.  
MD Publishing  
MedEquip Biomedical \*  
Medex, Inc.  
MedFilters  
Medtronic Physio-Control \*  
Mercury Medical  
MET Laboratories, Inc. \*  
Metron U.S., Inc.  
Mobile X-Ray Solutions \*  
Modern Biomedical & Imaging  
Netch Corporation  
North American Imaging \*  
North Carolina Biomedical Assn. \*  
Northfield Instrument Services \*  
Parts Port, Ltd.  
PartsSource  
Pentax Precision Instruments \*  
Philips Medical Systems  
Pilot Medical Products \*  
Puritan Bennett  
Quality Monitor Systems, Inc.  
R & D Batteries, Inc.  
R.S.T.I. \*  
ReMedPar  
Replacement Parts Industries \*  
Respironics, Inc. \*  
Rieter Electronic Services \*  
Samaritan's Purse/World Medical Mission \*  
Scale-Tronix, Inc.  
Sonora Medical Systems \*  
Southeast Laser Systems  
Spacelabs Medical  
Spectrum Technologies, Inc. \*  
St. Croix System, Inc.  
Stanly Community College \*  
Systems Electronics, Inc. \*  
The Scope Exchange, Inc. \*  
Troff Medical Systems \*  
Universal Hospital Services  
US Medical Systems  
Valleylab, Inc. \*  
Welch-Allyn \*  
Zoll Medical

*\* Registered for the 2004 Symposium & Expo (as of 9/23/2004)*