

SOCIETY SCOPE

PO BOX 2549 • FAIRFAX, VIRGINIA 22031-0549
Fall 2003 • Volume 6 Number 3

Cleared for Open Publication

Enhancing Laboratory Capabilities: The Joint Biological Agent Identification and Diagnostic System

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Introduction

The Joint Biological Agent Identification and Diagnostic System (JBAIDS) is a reusable, portable, modifiable system capable of simultaneous, reliable identification of multiple Biological Warfare Agents and pathogens of operational concern and clinical significance. JBAIDS will enhance force protection by providing medical personnel and commanders an expedient means to reliably and quickly identify biological threats in the operational environment, whether naturally occurring or man-made. Information derived from JBAIDS will improve situational awareness and facilitate the application of effective preventive measures, prophylaxis, and appropriate treatment. Medical personnel will use the JBAIDS to quickly identify exposure to or infection by biological agents at multiple levels of health service support, and screen for endemic diseases. System employment includes deployed medical units, fixed medical facilities, ground vehicles, aircraft, and aboard ship for contingency and humanitarian missions, and homeland security medical support. The acquisition, production and fielding of JBAIDS will occur in three phases or blocks. Block I will be a nucleic acid amplification system that will identify a limited number of biological agents. Block II includes the capabilities of Block I, plus the capability to identify a limited number of biological toxins. Block III will identify Block I and II agents, plus additional bacterial, viruses, fungi, and toxins referenced from standard threat lists and region-tailored based on the Combatant Commander guidance. The Block III system will be a lightweight, handheld device employed by the medic for point of care testing. With automated

sample preparation, testing and results interpretation, first responders will use it for biohazard assessments, recon and surveillance activities. Block III will interface with existing medical surveillance networks and feed pertinent information into Early Warning and Reporting systems. Each block will incrementally improve decision-making through enhancement of the Commander's situational awareness of biological hazards in the battle space. A review of the program, to include the near-term acquisition strategy, technical requirements, employment, and challenges will be discussed.

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SOCIETY SCOPE is published three times per year for \$30 (nonmember rate) by the Society of Armed Forces Medical Laboratory Scientists (SAFMLS). Send SCOPE correspondence to 9301 Blueberry Drive, Ocean Springs, MS 39564. Annual dues (\$15) for SAFMLS membership and address changes should be sent to LCDR Cynthia Wilkerson, SAFMLS Secretary, 611 Hawkes Island Drive, Green Cove Springs, FL 32043

Advertising rates: *Display ads* - ½ page ad, \$400; ¼ page ad, \$200.

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Editor's Page



Dear Reader,

You may recall from the Summer 2003 issue that I announced MAJ Kevin McNabb would be taking the reins at the SAFMLS Scope editor's desk. Unfortunately, MAJ McNabb was called away to duty in parts unknown, thus continuing my reign here at the editor's desk for yet another issue. God bless you all and God bless the U.S.A.

Bailey H. Mapp, LtCol, USAF, BSC

Look for on-line registration to begin 12 January at www.safmls.org. This year we'll be adding the ability to make your hotel reservations on-line.

The Society Scope is published three times annually:

Winter	Vol X Number 1	(Deadline: 15 Jan)
Summer	Vol X Number 2	(Deadline: 15 May)
Fall	Vol X Number 3	(Deadline: 15 Sep)

Logo Contest

The current Society logo has been used since 1971. A recommendation has been made that a new logo be created for the Society. Any one interested in submitting a design for a new logo should send a scanned version of it to LtCol Mapp, bailey.mapp@keesler.af.mil. The board will review entries. If a winning entry is submitted the design and designer's name will be announced at the next SAFMLS Conference in Boston.

LtCol Bailey H. Mapp, USAF, BSC
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President's Message

The Theme

by CDR Michael Finch, MSC, USN

Let the games begin! The planning committee has begun the demanding but rewarding task of pulling off another world-class SAFMLS meeting in a new city. Boston in 2004! LtCol Phil Livingstone has outdone himself on this one. The Sheraton Boston Hotel (<http://www.sheraton.com/Boston>) is an outstanding facility in downtown Boston minutes from the Boston Commons, the Freedom Trail, scores of shops and restaurants (including a mall connected to the hotel), and yes the Cheers bar.

The Planning Committee is a critical part of a successful meeting, but it is not the only thing needed. That's where you come in. "How can I help?" you might ask. By sharing your discoveries, ideas, and experiences with fellow members of the military laboratory medicine community. I encourage each of you to consider preparing a presentation, short topic, or poster. This edition of the Society Scope includes applications and points of contact for workshops, short topics, posters, and award nominations (also available on the SAFMLS website at <http://www.safmls.org>). I look forward to seeing what our members and guests present related to this year's theme, "One Government, One Laboratory," as well as, other exciting developments in the field of Laboratory Medicine. It will be exciting to hear how we address questions like:

- How can DoD, VA, and Public Health laboratories "combine forces" eliminating needless redundancy?
- How can we capitalize on the best each has to offer in testing methodology, supply procurement, etc?
- How can we combine efforts to advance the science and technology keeping government laboratories on the cutting edge in both the technological and business arena?
- How can we support each other's efforts in the rapid detection of Bioterrorism agents?
- While some DoD labs are starting to work with VA laboratories, can we expand our "network" to include other Public Health Service laboratories?
- Can we figure out ways for our different computer systems to communicate?

Now a bit on membership. As I stated in the last Society Scope, I want to keep LtCol Ferguson's goal of increasing membership in SAFMLS alive. Since SAFMLS does not have a Marketing Department or an advertising staff, the Society relies on you, fellow members to get the word out. A year ago he said, "Encouraging SAFMLS membership is a mentoring opportunity that all senior leadership, officer and enlisted must not miss. This small investment in time will reap huge benefits later on. More specifically, it will aid junior personnel in the challenges they will face in their career and make them aware of future leadership roles. Membership in SAFMLS not only provides an avenue for our professionals to formally share their scientific and management expertise, but it also provides an extensive network of tri-service personnel that each can use as resources to overcome the challenges ahead." This still rings true. I strongly encourage you to introduce new laboratory scientists to the Society, to encourage membership. The membership application is available in this issue of the Scope and at <http://www.safmls.org>.

The planning committee has a tremendous amount of work to do between now and February 2004. The Vice President and Chair of the Planning Committee, Maj Jean Ruddell, USAF, BSC, has all her team actively engaged. If you have questions about the meeting or would like to volunteer your time to the planning process or on-site in Boston, please contact her at (202) 767-5544 or Jean.Ruddell@pentagon.af.mil.

See you in Boston on 23 Feb 2004!

Enhancing Laboratory Capabilities - continued from page 1 Background

The Joint Biological Agent Identification and Diagnostic System (JBAIDS) exemplifies the new United States (U.S.) Department of Defense (DoD) approach to the acquisition of products and materials under the streamlined acquisition process instituted by DoD and the U.S. Congress, August 2002. This program constitutes DoD's first effort to develop and field a common medical system to identify biological agents—Biological Warfare (BW) agents and pathogens of operational significance. It will be configured to support reliable, fast and specific identification of biological agents from a variety of clinical specimens and environmental sample sources. JBAIDS will enhance force protection by providing commanders the capability to determine appropriate protection and mitigation actions, and medical personnel information to aid decisions regarding specific treatment, effective preventive medical measures and medical prophylaxis in response to the presence of biological agents (1).

“Lessons learned” from the first Persian Gulf War identified the need for BW agent detectors and subsequent material solutions alleviated capability gaps. However, medical personnel in response to “Gulf War Syndrome and other ailments suffered by military personnel” identified another deficiency—the need for a portable diagnostic tool to enable medical personnel to quickly identify disease-causing biologic agents. Hence, the concept for JBAIDS was proposed.

Due to the September 11th attack on the World Trade Center in New York City, and the subsequent release of Anthrax spores in the U.S. postal system, the U.S. Military moved forward to purchase and field medical BW agent identification equipment for installation and carrier battle group defense. However, still lacking is a common, standardized “workhorse system” with support equipment, an extensive array of validated agent assays, environmental and clinical sample protocols, and training package. Additionally, a consolidated DoD plan is needed to obtain system clearance from the U.S. Food and Drug Administration (FDA) for use as a diagnostic tool. The JBAIDS program is designed to address this shortfall.

JBAIDS is a unique program combining a streamlined acquisition process with an evolutionary block, spiral development strategy. This new process provides a template by which to test, evaluate and down-select against established end user requirements, mature, off-the-shelf technologies for inclusion into current and future Joint Service Chemical and Biological Defense programs. Representatives from across the DoD, other U.S. federal agencies (i.e., Departments of Health and Human Services, Agriculture, Energy, and the Environmental Protection Agency) and the North American

Treaty Organization (NATO) participate on Integrated Product Teams (IPTs). Thus, this unique program serves as a model for not only all future medical programs but for all other acquisition programs.

This streamlined approach ultimately benefits the user community by dramatically reducing acquisition time. It serves as a model for future Program Managers and Material Developers for leveraging available off-the-shelf technologies to rapidly field material solutions for the warfighter. JBAIDS will be a flexible, multi-use technology employed on the conventional battlefield and in far forward locations around the globe to combat terrorism, improve force protection and patient care, and enhance Homeland Defense.

Leveraging the Commercial Biotechnology Base

The JBAIDS program management office conducted a Market Survey to find commercial companies with technology that did not require significant modification to meet JBAIDS Block I requirements (Table 1). This approach leverages industry to reduce cost, shorten schedule and increase performance. The Market Survey was designed as a four phased, two-step Process. Phase 1 began with a Pre-Solicitation Synopsis, February 2002 (2). The submissions of the respondents were screened against pre-established criteria, to include experience with the U.S. Food and Drug Administration (FDA), Good Manufacturing Practices, and a production ramp-up capability for testing platforms and reagent kits. Phase 2 involved inviting the passing companies to present briefings on how their respective technologies could meet JBAIDS requirements.

Phase 3 of the Market Survey involved the Government sending purchase orders to the vendors to participate in a two-week competitive “Fly Off” Laboratory Test of their systems at the U.S. Army Dugway Proving Ground, Utah. The very first test of its kind, the design, specific “pass/fail” criteria, such as assay performance, sample throughput, device weight and set-up time. On-site system evaluation was accomplished using input from DoD scientists, engineers, logisticians, military end user representatives and operators. Actual biological agents, inactivated to observe safety and biosurety requirements, spiked into clinical (red blood cells) and environmental (aerosol detection buffer) test matrices were used (3). Working closely with the JPEO-CBD Critical Reagents Program (CRP), scientists and biostatisticians from seven separate DoD and Contract Support facilities were used to prepare and validate sample preparation procedures, and from five facilities reviewed and compiled test results to ensure accurate performance assessment. Additionally, engineering, logistics, and operations experts examined sys-

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 tem components for end user suitability, supportability and safety.

Phase 4 entailed issuance of a Request for Proposal followed by a formal Source Selection Evaluation Board staffed with representatives from across the DoD. Prime vendor contract was awarded to Idaho Technology Incorporated September 2003. (ref 4. JBAIDS Contract Award Notice, Federal Business Opportunities Contract Award Number DASG60-03-C-0094, <http://www.defenselink.mil/contracts/2003/ct20030925.html>)

The strategy is unique in that the Government will leverage material commercial technology with agent assays developed using Government Furnished Materials and information (GFI/GFM), taking advantage of the extensive work DoD has accomplished in biological defense research and coupling that with the strength of the industrial biotechnology and manufacturing base. The prime vendor will be responsible for total system performance requirements as the system “integrator,” and will manufacture the platform, agent

specific reagent kits, protocols and operating procedures. Block I will be immediately fielded for medical surveillance testing, and following clearance by the FDA, as a diagnostic device to aid in patient treatment.

Total development for the program is a short 18 months, with execution of the four-phased approach being only 15 months. This is 36-48 months shorter than an average development cycle. This approach encouraged full and open competition as a means to maximize consideration of mature technologies—Commercial Off-The-Shelf (COTS) or modified Non-Developmental Items (NDI), aligned with program requirements for immediate fielding by early 2005. This saves the Government both time and money since no long development is required, and the industrial base is strengthened by not having to build new production lines solely for the Government. JBAIDS will “jump-start” the commercial sector for FDA cleared rapid diagnostic testing devices that will be used in medical laboratories to identify BW agents and other significant pathogens, cutting current results turnaround from days or weeks to an hour or less. In-turn, commercial

Table 1. JBAIDS System Requirements Specified in Pre-Solicitation Notice (2)

REQUIREMENT	TIMEFRAME
Posses a system to identify biological agents with supporting performance data.	At Pre-solicitation Notice release, Feb 02
System currently exists and will be available for a flyoff laboratory test.	Summer 02
Adequate access to a manufacturing facility to produce hardware and reagents at a rate of at least 20 systems monthly.	Seven months after contract award (ACA)
Knowledge of the FDA approval/clearance process and has plan for system FDA clearance.	Start process immediately following contract award
System Manufacturing is ready for initial unit delivery.	By 7 months ACA
Production facility is capable of producing thousands of reagent kits monthly for multiple biological agents.	By 7 months ACA
Production facilities are or will be compliant with Good Manufacturing Practices (cGMP).	By 12 -14 months ACA
System device weights or will weigh less than or equal to 40lbs (including transportation case).	By 7 months ACA

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biotechnology research and development efforts will evolve products better suited to future JBAIDS block requirements.

“Best Value” Approach

The JBAIDS program acquisition strategy calls for providing the right capability quickly to the warfighter in the shortest period of time. The program will improve force health protection while sustaining operations in a high threat biological environment. The process produces an item in a much shortened acquisition time frame (18 months versus 48), while reducing risk by selecting a mature technology that has been thoroughly tested, demonstrating required performance. Significant cost savings are envisioned for JBAIDS development, procurement and total life-cycle costs. Examples of DoD unique cost saving measures include: incentivizing the prime vendor to grow the Block I capability to meet Block II requirements and expand the reagent production base; provision of GFM/GFI to the prime vendor to develop test reagents not already in production to save research and development dollars; and leveraging industry-manufacturing advancements in infectious disease diagnostics to reduce procurement costs by purchasing device-specific reagents already available off-the-shelf. Additionally, JBAIDS company participants were screened for FDA product clearance knowledge and expertise. As such, a cost-savings will be realized for JBAIDS FDA clearance through partnering with an experienced prime vendor. This approach will also result in greater commonality with civilian medical diagnostic programs, though compliance with National Accreditation agencies, significantly improving day-to-day patient care and Homeland Defense capabilities. Efforts to reduce total life-cycle costs include a longer reagent shelf life (up to a 1-year outdate), inclusion of a device warranty at purchase, and provision of Contractor Logistics Support.

Incremental Capabilities Development

JBAIDS will comprise platform test equipment hardware with computer and case, assay test kits specific to 10 biological agents, and protocols for sample preparation and system operation (Figure 1 and Table 2). The selected COTS/NDI system will be configured to support forward medical operations for force health protection; Block I system will undergo environmental, reliability, Development and Operational testing activities commencing late 2003. The Block II program is an evolutionary enhancement to field a direct toxin identification capability by expanding the modular design of the Block I hardware, software, and addition of reagents for protein-based toxin testing (Table 2). Block III will fully integrate bacterial and toxin identification technologies into a

single small lightweight, handheld unit that can correctly identify 50 or more biological agents (bacteria, viruses, and toxins) in less than 15 minutes. Emerging candidate technologies range from nucleic acid and antigen microarray platforms, to nanotechnology for single cell analysis, akin to the “lab on a chip” concept (4,5).

Figure 1. Components of JBAIDS1



¹Cartoon created by Mr. Ben Belrose, JBAIDS System Engineer

Streamlined Acquisition and Fast Fielding

The JBAIDS Block I acquisition process is “streamlined.” By establishing clear, measurable criteria based on warfighter requirements against which to evaluate mature technologies in the marketplace, several years will be trimmed from the fielding schedule. The traditional approach would have required 4 to 5 years from initial development to fielding taking a relatively immature system from a basic research program and transferring it to an acquisition program with considerable development yet to be performed. By leveraging commercial industry, a critical mission need will be filled with a material solution that will continue to be improved through spiral development and capabilities expanded through block upgrades.

The prime vendor will be incentivized for product improvements identified as most critical by the user. Key is that the system will be modular in design to facilitate ease of deployment, future system upgrades, and reduction of maintenance requirements in the field.

Summary

JBAIDS will be the first diagnostic program to seek FDA clearance for rapid identification of biological agents. The program will serve as the benchmark for future Government

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 and industry programs. Furthermore, an innovative fielding plan employs parallel processing, and will reduce delivery time by fielding Block I for environmental sample testing and surveillance while the system moves through FDA clearance.

Table 2. Representative Block I and II Agents^{1,2,3}

AGENT OR DISEASE	ORGANISM
Block I	
Anthrax	Bacillus anthracis
Brucellosis	Brucella species
Dengue Fever	Dengue
Ebola-Marburg	Filoviridae
Plague	Yersinia pestis
Q-Fever	Coxiella burnetii
Salmonellosis	Salmonellae
Smallpox	Orthopox viruses
Tularemia	Francisella tularensis
Typhus Fever	Rickettsia species
Block II	
Botulium	Clostridium botulinum
Ricin	Castor Bean
Staphylococcus Enterotoxins (i.e., SEB)	Staphylococcus aureus

Notes:

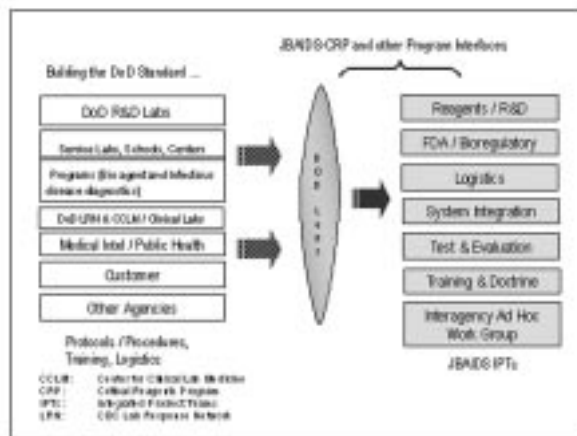
- 1) Representative of agents for which assays will be developed
- 2) Does not provide a complete list
- 3) Agents are not listed in any priority or importance

Unlike medical devices currently employed for biological defense, a total system package will be delivered, ready for immediate use. The system will include a hardened device with data storage, test protocols, assay kits with control material, ancillary equipment and consumable supplies, and training manuals and materials. Additionally, the JBAIDS Office is working with the JPEO-CBD Critical Reagents Program and DoD centers of excellence such as the Armed Forces Institute of Pathology, Air Force Institute For Operational Health (AFIOH), U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID), and U.S. Army Soldier Biological Chemical Command (SBCCOM) (Figure 2) to establish system sustainment, including participation in an overarching Quality Assurance and Proficiency Program to assess operator performance by testing samples containing biological agents. Operator certification and re-

certification standards will be established to ensure system validity. Furthermore, a New Equipment Training (NET) course will be constructed with the prime vendor utilizing the best of existing military and civilian training programs. This process will highlight required course updates in military schools to ensure successful system employment. These combined efforts are crucial to providing a standardized, validated process to ensure a reliable, reproducible capability is fielded. JBAIDS data will be used by medical providers to take preventative actions and make treatment decisions, and by Commanders to implement mitigation measures and restoration operations to enable combat power projection.

The JBAIDS program long-term acquisition strategy ensures continuous improvement by leveraging off of the “latest and greatest” technological solutions Industry has to offer. The same acquisition strategy will be used for Block II, toxin identification, with a market survey projected late 2003 following Block I contract award. A DoD first, this strategy will ensure that the most modern and readily available capability is quickly and efficiently evaluated against approved end user requirements to rapidly field a material solution to the warfighter.

Figure 2. Focusing DoD Investments



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- 2) JBAIDS Pre Solicitation Notice, Federal Business Opportunities Solicitation Number DASG60- 02-R-0008 (closed 28 March 2002). Federal Business Opportunities (FBO) Archived document, on-line, Internet, available at <http://www.eps.gov/servlet/Solicitation/R/USA/SMDC/DASG60/DASG60-02-R-0008>.
- 3) Possession, use and transfer of select agents and toxins, in 42 CFR Part 73, Interim Final Rule, on-line, Internet, available at <http://www.cdc.gov/od/sap>.

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Acknowledgements

The author gratefully acknowledges the following reviewers: Mrs. Susan Hubbard and Mr. Thomas Emsley, Joint Program Executive Office for Chemical and Biological Defense (JPEO-CBD), Falls Church, VA,

and Mrs Lynn Selfridge, Program Contracting Officer, US Army Space and Missile Defense Command (USASMD), Chemical Biological Medical Systems, JPEO-CBD, Frederick MD.

Disclaimer

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Consultant's Corner

by CDR Brenda Bartley, MSC, USN

**BBs approach to CCs (Change and Challenge)

Reflecting on the changes and challenges faced by all of us over the last 12 months, and thinking of those that still lie ahead, I continue to find inspiration in two expressions that have guided me most of my Naval career, "Smooth seas don't make skillful sailors"¹ and "I'm not afraid of storms, for I'm learning to sail my ship"². These words tell us that things worth doing usually don't come easy, but that we should keep pushing ourselves, not be afraid to try, and never stop learning.

Since assuming the responsibilities last November as the Navy Clinical Laboratory Consultant, while still assigned to the Armed Services Blood Program Office, I found these words to be especially true. The storm surge was high, the winds and rain tormenting, but the ride was incredible. Now, as I take on this job full-time, there is still much to learn. I'm looking forward to working with the Army and Air Force, taking on the challenges ahead, and hopefully doing something that makes a difference for DoD laboratory medicine. Speaking of making a difference, please join me in thanking Captain Greg Craigmiles for the superb job and numerous contributions he made while serving as the Navy Clinical Laboratory Consultant.

The real challenges during the last year, however, were those presented to our forward deployed Armed Forces medical laboratory scientists and to those who kept the "ship afloat" at our medical centers and clinic laboratories while their staffs rapidly deployed. In support of Operation Enduring Freedom and Iraqi Freedom, 10% of our Navy laboratory officers served on various operational platforms including 4 fleet hospitals, 3 casualty receiving and treatment ships, and the USNS Comfort. Numerous Navy enlisted medical laboratory technicians also deployed on these and other Marine Corps medical platforms and were instrumental in ensuring the success of each mission. Back at home, DoD

blood donor centers increased red blood cell collections by 50%, all while combating blood product availability issues associated with vCJD, white particulate matter, smallpox vaccinations, SARS, and West Nile Virus. Through it all, our military laboratories continued to provide quality diagnostic testing capabilities to our beneficiaries and returning casualties. Thanks to all our DoD medical laboratory scientists, who served in these operations and who continue to serve in support of our joint fighting forces worldwide.

The past year has also been filled with change and challenges for the Center for Clinical Laboratory Medicine (CCLM) and the Office of Clinical Laboratory Affairs (OCLA). The offices recently moved from the AFIP annex in Rockville, MD to the main AFIP building at the Walter Reed Army Medical Center compound. New staff within the OCLA includes HMC Rapisura, USN; SFC Bryant, USA; and SMSgt Michael Genet, USAF. During the next year, the Service Consultants and the Laboratory Joint Working group will continue to focus on issues near and dear to us all: CLIP/CLIA regulation updates, CHCS interoperability, CHCS-II commercial off the shelf project, CDC Laboratory Response Network, JBAIDs, Liquid Based Cytology and HPV implementation, reference laboratory testing, SAFMLS, and many more as we continue to standardize and improve the quality, service, and capabilities of our laboratories.

As we all work through the inevitable changes and resulting challenges over the next year, I leave you with one final thought to guide you and a new challenge to all laboratorians: "We must become the change we want to see"³. Looks like Gandhi³, Louisa May Alcott², and that old African proverb¹ guy obviously knew a thing or two about life in the military!

What is P.A.C.E.®?

Donna S. Whittaker, Ph.D. LTC, MS
Chief, Blood Services
Brooke Army Medical Center

Professional Acknowledgement for Continuing Education (P.A.C.E.®) was established in 1977 as an administrative system serving as the quality assurance mechanism for educational programs offered to clinical laboratory professionals. Workshops offered at SAFMLS annual meeting are reviewed and approved through P.A.C.E.® so that participants of the SAFMLS annual meeting receive continuing education credits for attendance.

Why P.A.C.E.®? P.A.C.E.® Continuing Education Contact Hours satisfy continuing education requirements for: Federal, State licensure, Local (Employer), Regulatory Agencies recertification.

To meet P.A.C.E.® requirements each program must

- be a structured learning experience
- have a topic which appears in the American Society of Clinical Laboratory Scientist (ASCLS) Body of Knowledge or relates to clinical laboratory science
- have written measurable learning objectives (see below), **stated in terms of what the participant will be able to do at the conclusion of the session**; objectives are to correlate with the Level (also, see below) of Instruction
- have qualified faculty with the background and experience necessary to teach the subject
- include a method of evaluation of the program by participants
- have a set time schedule and be at least 50 minutes in length for the first hour of instruction.

BOTTOM LINE: Each workshop must have measurable learning objective and each instructor must provide a brief curriculum vitae in order to qualify for P.A.C.E.® credits.

Writing Measurable Learning Objectives:

Four main parts of measurable learning objective:

Audience: for who is the program intended?

Action: what is the participant suppose to be able to do as a result of the program.

Conditions: what initial set of criteria is the participant given?

Degree: how well is the participant expected to be able to perform the action at the end of the program.

Steps for developing measurable learning objectives.

- Step 1: Determine **level of audience**:
- Basic—entry level; no prior knowledge of the subject necessary.
- Intermediate—refresher course; some basic knowledge required; for the staff technologist with several years of experience.
- Advanced—highly technical; for those with current skills/knowledge and at least five years of experience.
- Step 2: Identify what your **audience** should be able to do after the program.
- Step 3: **Write** specific measurable learning objectives in terms of the four major parts of measurable learning objective: actions, conditions, degree, and correlate with level of instructions. See listing of verbs below to assist in writing objectives.
- Step 4: **Evaluate** whether the program instruction satisfies the objectives.

Avoid non-measurable verbs: amplify, appreciate, be acquainted, be aware, be (come) familiar with, explore, gain insight, improve, increase, know, learn, realize, and understand. Below are verbs that will help to write good learning objectives.

Knowledge and Comprehension encompass cognitive processes of remembering or explaining. Application and Analysis are at a higher level and involve using knowledge to find new solutions, or in breaking a whole into component parts. Synthesis and Evaluation are problem solving cognitive processes, usually involving the creation of a new whole, or ability to judge the value of some thing(s).

What is P.A.C.E.®? - continued on page 10

What is R.A.C.E.®? - continued from page 9

Level 1: Recall		Level 2: Interpretation		Level 3: Problem Solving	
KNOWLEDGE	COMPREHENSION	APPLICATION	ANALYSIS	SYNTHESIS	EVALUATION
Cite	Arrange	Adapt	Analyze	Arrange	Appraise
Choose	Associate	Apply	Appraise	Assemble	Approve
Define	Clarify	Catalogue	Audit	Build	Assess
Label	Classify	Chart	Break down	Combine	Choose
List	Convert	Compute	Calculate	Compile	Conclude
Locate	Describe	Consolidate	Categorize	Compose	Confirm
Match	Diagram	Demonstrate	Certify	Conceive	Criticize
Name	Draw	Develop	Compare	Construct	Critique
Recall	Discuss	Employ	Contrast	Create	Diagnose
Recognize	Estimate	Extend	Correlate	Design	Evaluate
Record	Explain	Extrapolate	Criticize	Devise	Judge
Repeat	Express	Generalize	Deduce	Discover	Justify
Select	Identify	Illustrate	Defend	Draft	Prioritize
State	Locate	Infer	Detect	Formulate	Prove
Write	Outline	Interpolate	Diagram	Generate	Rank
	Paraphrase	Interpret	Differentiate	Integrate	Rate
	Report	Manipulate	Discriminate	Make	Recommend
	Restate	Modify	Distinguish	Manage	Research
	Review	Order	Examine	Organize	Resolve
	Sort	Predict	Infer	Plan	Revise
	Summarize	Prepare	Inspect	Predict	Rule on
	Transfer	Produce	Investigate	Prepare	Select
	Translate	Relate	Question	Propose	Support
		Sketch	Reason	Reorder	Validate
		Submit	Separate	Reorganize	
		Tabulate	Solve	Set up	
		Transcribe	Survey	Structure	
		Use	Test	Synthesize	
		Utilize	Uncover		
			Verify		

The affective domain is concerned with changes (growth) in interests, attitudes and values. There are five major classes based on level of involvement.

RECEIVING	RESPONDING	VALUING	ORGANIZATION	CHARACTERIZATION BY A VALUE OR VALUE COMPLEX
Accept	Agree	Adopt	Anticipate	Act
Acknowledge	Allow	Aid	Collaborate	Administer
Attend (to)	Answer	Care (for)	Confer	Advance
Follow	Ask	Complete	Consider	Advocate
Listen	Assist	Compliment	Consult	Aid
Meet	Attempt	Contribute	Coordinate	Challenge
Observe	Choose	Delay	Design	Change
Receive	Communicate	Encourage	Direct	Commit (to)
	Comply	Endorse	Establish	Counsel
	Conform	Enforce	Facilitate	Criticize
	Cooperate	Evaluate	Follow through	Debate

What is R.A.C.E.®? - continued on page 11

What is P.A.C.E.®? - continued from page 10

RECEIVING	RESPONDING	VALUING	ORGANIZATION	CHARACTERIZATION BY A VALUE OR VALUE COMPLEX
	Demonstrate	Expedite	Investigate	Defend
	Describe	Foster	Judge	Disagree
	Discuss	Guide	Lead	Dispute
	Display	Initiate	Manage	Empathize
	Exhibit	Interact	Modify	Endeavor
	Follow	Join	Organize	Enhance
	Give	Justify	Oversee	Excuse
	Help	Maintain	Plan	Forgive
	Identify	Monitor	Qualify	Influence
	Locate	Praise	Recommend	Motivate
	Notify	Preserve	Revise	Negotiate
	Obey	Propose	Simplify	Object
	Offer	Query	Specify	Persevere
	Participate (in)	React	Submit	Persist
	Practice	Respect	Synthesize	Praise
	Present	Seek	Test	Profess
	Read	Share	Vary	Promote
	Relay	Study	Weigh	Promulgate
	Reply	Subscribe		Question
	Report	Suggest		Reject
	Respond	Support		Resolve
	Select	Thank		Seek
	Try	Uphold		Serve
				Solve
				Strive
				Tolerate
				Volunteer (for)

CALL FOR NOMINATIONS FOR 2004 SAFMLS BOARD POSITIONS

- Open Positions: Pres Elect, VP, Army/AF/Navy Member-at-Large.
- Nominees must be a regular member of SAFMLS
- Send the following to the SAFMLS Secretary, CDR Cynthia E. Wilkerson, email: cewilkerson@sar.med.navy.mil. Phone: 904-542-7386/DSN: 942-7386
 - o Nomination Letter
 - o Letter of Intent (1 page)
 - o Picture (electronic preferred)
 - o CV (1 page)
- The Officers of the Society shall be, by order of succession, President, Vice-President, Treasurer and Secretary. A conscious effort should be made to effect multiple agency representation among the Officers of the Society and under no circumstances will the President be from the same service for more than two consecutive terms.
- The Officers and a President-Elect shall be elected annually from among the commissioned officers of the Society by majority vote during the Business Session at each Annual Meeting, with the exception of the Treasurer and Secretary, who shall be elected for a three-year term.
- The Officers shall take office at the conclusion of each Annual Meeting, and shall be responsible for the affairs of the Society during the following year, and for the conduct of the succeeding Annual Meeting.
- The President-Elect will serve as a Society President the year following the term of office of the current President, and shall serve during this interim period as a non-voting

Call for Nominations - continued on page 12

Call for Nominations - continued from page 11

member in all meetings of the Board of Directors, unless the President-Elect qualifies as a voting member under Articles IV or V or the Bylaws.

- The Vice-President, in the event the President is unable to serve, shall assume all the President's functions.
- There shall be seven Members-at-Large, each elected for a period of two years. Six of the seven Members-at-Large shall be Commissioned Officer Members, with not more than two members from any one service. In addition, one term for each service will expire each year. The seventh Member-at-Large will be an Enlisted Member representing any service. Each Member-at-Large will

have one vote. Members-at-Large shall provide at least one article per year per military service branch, supporting the purpose and objectives of the Society, for publication in the Society Scope. Members-at-Large shall engage in active advocacy and recruiting for Society members. Members-at-Large shall provide support to the Annual Meeting as directed by the Planning Committee Chair. Members-at-Large will be the first consideration to fill the Society's Secretary role in the event the Secretary is unable to participate in Society functions (e.g., deployed). This interim appointment will be voted on by the Board of Directors and appointed by the President.

The Society of Armed Forces Medical Laboratory Scientists (SAFMLS) 2004 Annual Meeting and Exposition

I invite you to exhibit at our annual convention being held at the Sheraton Boston Hotel, February 23, 2004 - February 26, 2004. Vendor exhibition is scheduled for 24 – 25 February 2004. SAFMLS is a non-profit professional society of medical scientists, technologists, technicians, managers and physicians in the Army, Navy, Air Force, Public Health and Department of Veterans Administration. Last year's meeting in Reno, NV registered just under 400 attendees. The purpose of the meeting is primarily educational. Topics presented include management, microbiology, toxicology, epidemiology, chemistry, coagulation, hematology, transfusion medicine, original research and military specific topics that have been commonly reported in the press such as Gulf War Syndrome, the DNA identification laboratory at the Armed Forces Institute of Pathology and Weapons of Mass Destruction detection. "Emerging Technologies" is this year's theme. Workshops will focus on clinical applications in Molecular Biology, and the continuing journey the Armed Services clinical and research laboratories have in supporting the evolving changes in military doctrine, strategy, operations and tactics. This meeting provides an opportunity for exhibitor interaction with military decision-makers, giving laboratory managers the best potential to fulfill the vision these leaders have for their services. This is the major scientific meeting of the year for most of these participants and they will travel from locations all over the world to meet with you. This will be the only opportunity many of them have to learn about your organization or product first hand.

Join US!

Although the Armed Forces are faced with many challenges in laboratory medicine, we are committed to a team effort to make military medicine succeed. Thanks to the devoted personnel in the Armed Forces and the vendors who make military medicine a reality, we will continue to thrive for many years. When you register to exhibit your product at this convention, you are showing your support for Military Medicine and ensuring the future meetings of this Society.

Why Boston?

Boston, MA is a new adventure for SAFMLS. Located in the heart of downtown Boston, the Sheraton Hotel is an exciting world class hotel offering all the amenities in food and entertainment you have come to expect from a first class conference center. The exhibition hall (Hynes Convention Center) is connected to the Sheraton. Transportation from the airport is easy and a short 15 minutes away.

Greyhound Exposition Services (GES) will be the decorator for the show. GES National Servicenter(SM) **1-800-475-2098**; Fax: 1-866-329-1437; servicenter@gesexpo.com

Complete your booth application by using the attached form. Sign up early to ensure a prime location in the exhibit hall.

Bailey H. Mapp, Lt Col, USAF, BSC
Exhibits Coordinator
Email: bailey.mapp@keesler.af.mil

Check Us Out on the Internet at www.safmls.org for current information about the meeting.



Invitation to Exhibit

Society of Armed Forces Medical Laboratory Scientists

Booth Reservation Request

**Sheraton Boston Hotel/Hynes Convention Center
Vendor Exhibition 24 – 25 February 2004**

Company Name: _____

Point of Contact: _____

Address: _____

City, State, Zip Code: _____

Phone: _____

Fax: _____

Your E-mail Address: _____

Please reserve _____ booth(s) at \$1300.00 per 10' x 10' booth space

Purchase Order Number is requested or 50% Advance Deposit Payment.

Check or PO Number: _____ (Make checks out to "SAFMLS 2004")

Per attached preliminary floor plan:

1st Choice/Booth number(s) _____

2nd Choice/Booth number(s) _____

3rd Choice/Booth number(s) _____

Please note: SAFMLS reserves the right to make any changes to the SAFMLS preliminary floor plan and to make booth re-assignments that may be necessary for the overall benefit of the SAFMLS event, but will do their best to keep you in your originally requested/assigned booth location.



Would you be interested in a SAFMLS Sponsorship opportunity?

	Yes	No
Hospitality evening	_____	_____
Breakout session	_____	_____
Continental breakfast	_____	_____
Award	_____	_____
Other	_____	_____

If you have any questions about sponsorship, please call. Fax or mail booth/sponsorship request to:

Lt Col Bailey Mapp
9301 Blueberry Drive,
Ocean Springs, MS 39564

Phone: 228-377-6499
Fax: 228-377-9420

The Society of Armed Forces Medical Laboratory Scientists (SAFMLS) and the United States Military Medical facilities worldwide would like to take this opportunity to thank you all for your continued interest and support.

Check us out on the Internet at www.safmls.org

CALL FOR SAFMLS 2004 POSTER ABSTRACTS

To all SAFMLS members and prospective 2004 SAFMLS Meeting attendees, submitting a poster is an excellent way to participate and demonstrate your laboratory's accomplishments. Both clinical and research categories may be submitted. Many creative topics have been submitted during past meetings and have included, but are not limited to, the following:

- Correlation Studies
- Cost Analysis
- Management Issues
- Deployment Adventures
- Basic Science Research
- Applied Research
- New Method Development
- Collaboration Experiences

Awards for the best clinical and research posters will be selected during the meeting by members of the Awards Committee, and the winners will be recognized at the Awards Ceremony. Criteria for grading the posters include the following: Length and clarity of the hypothesis or purpose; clarity of methods, procedures, or applicable approaches in answering the hypothesis; clarity of the results and conclusions derived; use of graphs, photos, text and tables to assist in analysis of information presented, and the overall quality of the poster.

To submit your abstract(s), complete the following document. Abstracts must include a hypothesis or purpose, materials and methods, results, and conclusions. Please ensure that a one-page CV for the first (primary) author only accompanies each abstract submission.

SAFMLS 2004 ANNUAL MEETING POSTER APPLICATION

TITLE:

AUTHORS:

LOCATION:

ABSTRACT:

1st Author's e-mail address:

1st Author's mailing address:

1st Author's phone number:

E-mail completed submission forms to Maj Normita Bravo at bravon@afip.osd.mil. If you have questions you can e-mail us or call at (202) 782-1847/1856 (DSN: 662-XXXX).

Submission Deadline is 15 December 2003

Guidelines for Poster Presentation - continued on page 16

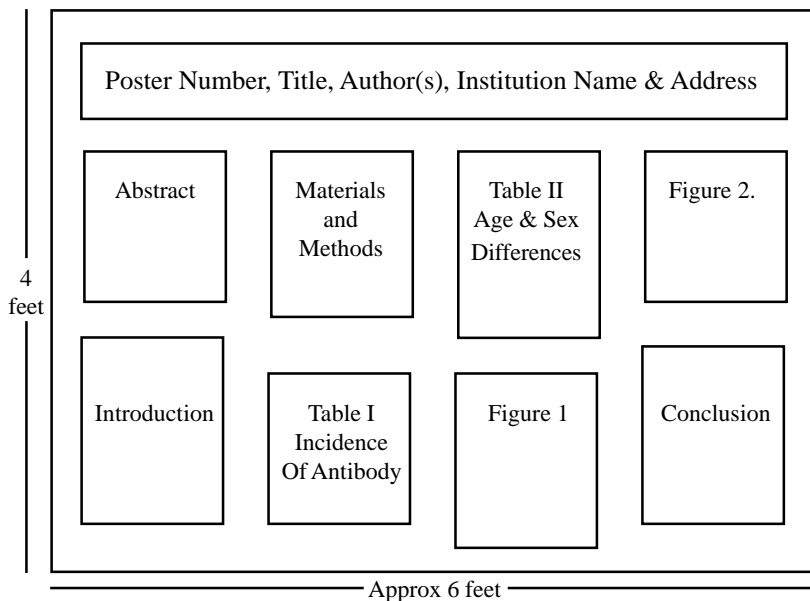


GUIDELINES FOR SAFMLS POSTER PRESENTATIONS

Perhaps the most important consideration in preparing an effective poster is its central theme: it should be focused on the conclusions directly supported, as concisely as possible, by the visual material presented. A casual observer should be able to grasp the overall message in a few seconds and be able to discern the methods used and the conclusion in a few minutes. The board should not be cluttered or busy. The most effective poster is a concise one; it includes only essential data and text, and displays your conclusion clearly and boldly.

The poster needs to be a complete story since it will be unattended by the author for most of the time. Abstracts are printed in the SAFMLS Meeting Program, but you may wish to have copies of the abstract or other handouts available for interested attendees.

SAMPLE POSTER



The poster board surface is approximately 4x6 feet. Prepare a title board for the top of your poster, indicate your poster number, title, author(s) and institution name and address. The lettering for this section should be at least 1" high. A copy of your abstract, typed in large type, should be posted in the upper left-hand corner of the poster board.

Prepare and bring with you all illustrations needed for your poster presentation figures, tables, schemes, equations, etc. Illustrations and diagrams should be readable from distances of about 3 feet.

You may find it useful to have additional material available if you anticipate needing to give more extensive explanations to interested participants.

AWARD DESCRIPTIONS

Each year SAFMLS members have the opportunity to nominate outstanding members for a variety of awards. Nominations are submitted to the awards chairperson. A committee of ex-officio board members selects the awardees. If you are interested in nominating one or more individuals for any of the following awards, please read through the nomination requirements and descriptions found in this issue of the SAFMLS Society Scope and submit your nomination packages by 31 December 2003 Maj Robert Zajac, (801) 777-7034 or DSN 777-7034; robert.zajac@hill.af.mil.

OUTSTANDING CLINICAL SCIENTIST

Designed to recognize outstanding contributions by an association laboratory officer in pay grades 0-1 through 0-3 who has excelled in clinical laboratory operations, laboratory management or as a staff officer with special emphasis on advancing the growth and professional goals and objectives of SAFMLS and have demonstrated outstanding leadership in pursuit of excellence for their country and service.

OUTSTANDING LABORATORY MANAGER

Designed to recognize outstanding contributions by an association field grade officer in pay grades 0-4 through 0-5 who has excelled in laboratory management, either directly or as a staff officer with special emphasis on advancing the growth and professional goals and objectives of SAFMLS and the practice of laboratory medicine. They should have also demonstrated outstanding leadership in pursuit of excellence for their country and service.

OUTSTANDING ENLISTED SERVICE MEMBER

Designed to recognize outstanding contributions by an association enlisted service member who has excelled in clinical laboratory operations, laboratory management, or as a staff NCO with special emphasis on advancing the growth and professional goals and objectives of SAFMLS, the practice of clinical laboratory medicine. They should have also demonstrated outstanding leadership in pursuit of excellence for their country and service.

OUTSTANDING RESERVE/GUARD LABORATORIAN

Designed to recognize outstanding contributions by an association reserve/guard member who has excelled in clinical laboratory operations, laboratory management or as a staff officer/NCO with special emphasis on advancing the growth and professional goals and objectives of SAFMLS and the practice of clinical laboratory medicine. They should also have demonstrated outstanding leadership in pursuit of excellence for their country and service.

OUTSTANDING CLINICAL RESEARCH SCIENTIST

Designed to recognize outstanding contributions by an association member in pay grades E-1 through 0-5 who has been involved in clinical research activities promoting laboratory science with a special emphasis on advancing the growth and professional goals and objectives of SAFMLS and the practice of laboratory medicine. They should also have demonstrated outstanding leadership in pursuit of excellence for their country and service.

DISTINGUISHED SERVICE AWARD FOR EXCELLENCE

Designed to recognize substantial contributions above and beyond normal expectations by an association member who has promoted and advanced the growth and professional goals of SAFMLS and the practice of clinical laboratory medicine. They should have demonstrated outstanding leadership in pursuit of excellence for their country and service. All nominations will be forwarded to last year's president who will chair a selection committee for the recipient of the award.

Nominee Requirements For SAFMLS Awards 2004

- Nominees must be a regular member of SAFMLS (enlisted nominees may be associate members) with a minimum time of one year as a member of SAFMLS prior to nomination
- Must be in the appropriate pay grade at time of award receipt
- Accomplishments cited must be within three calendar years of nomination date
- Individual has not received the award for which they are being nominated in the past three years
- May be nominated for any accomplishments that advance the practice of clinical laboratory medicine at the laboratory, installation, or headquarters level to include but not limited to:
 - Leadership
 - Management
 - Job knowledge
 - Innovation
 - Resource savings
 - Training
 - Significant non-laboratory accomplishments will be considered, but only as they apply to the whole person concept
- Activities promoting SAFMLS are viewed in a positive manner. These may include but are not limited to:
 - Committee membership
 - Written contributions to the newsletter
 - Workshop/Short Topic presentations
 - Poster presentations
 - Annual meeting committee involvement
- Nominations for the award must include:
 - Brief biographical sketch of nominee not to exceed one type written 8 ½" X 11" page
 - Description of accomplishments **limited to two double spaced 8 ½" X 11" pages** with one-inch margins and type no smaller than 11 characters per inch

Submit nominations NLT 31 December 2003 to the Awards Committee Chairperson:

Major Robert Zajac
75th Medical Group/SGSAL
7321 11th ST, Bldg 570
Hill AFB, UT 84056-5012

(801) 777-7034/5130
DSN: 777-7034/5130
robert.zajac@hill.af.mil



**SAFMLS Planning Committee
Boston, MA 2004**

Rank	First Name	Last Name	Job Title	E-mail Address
1Lt	Julie	Johnson	Audiovisual Support	Julie.Johnson1@charleston.af.mil
Maj	Robert	Zajac	Awards and Catering	robert.zajac@hill.af.mil
Lt Col	Samuel	Livingstone	Conference Director	Samuel.Livingstone@ARPC.DENVER.AF.MIL
Lt Col	Bailey	Mapp	Asst. Conference Director/On-line (Web Based) Registration/Scope Editor	Bailey.Mapp@keesler.af.mil
LtCol	Carolyn	Miller	Education Coordinator Assistant	carolyn.miller@medgrp.scott.af.mil
CDR	Brenda	Bartley	General Session	Bartley@afip.osd.mil
LTC	William	Nauschuetz	General Session	william.nauschuetz@cen.amedd.army.mil
Maj	Karen	House	On-site Registrations-Sub-Committee Chair	housek@afip.osd.mil
			Assistant Webmaster	
Maj	Brian	Casleton	On-Site Registrations	casletbg@centcom.mil
1Lt	Victoria	McCarthy	Opening Ceremonies Coordinator	victoria.mccarthy@nw.amedd.army.mil
Maj	Steve	Mahlen	Opening Ceremonies Coordinator	steven.mahlen@nw.amedd.army.mil
LTC	Donna	Whittaker	PACE, Education Coordinator	Donna.Whittaker@CEN.AMEDD.ARMY.MIL
LTC	Bridget	Wiemken	Photography	WBRIDGET@aol.com
Capt	Madaline	Summera	Photography/On-site Registration	Madelaine.Sumera@MGMC.AF.MIL
Maj	Floyd	Raven	Photography	floyd.raven@shaw.af.mil
Maj	Normita	Bravo	Poster Presentations	BravoN@afip.osd.mil
CDR	Finch	Michael	President	mfinch@ndslsd.med.navy.mil
Maj	Lucia	More	Program Layout	Lucia.More@offutt.af.mil
LCDR	Christine	Congdon	Short Topics Registration	CLCongdon@nhcl.med.navy.mil
CDR	Larry	Ciorito	Treasurer, Money Matters	LRciorito@Bethesda.med.navy.mil
Maj	Jean	Ruddell	Vice President/Planning Chair	Jean.Ruddell@pentagon.af.mil
Maj	Norman	Fox	Webmaster	norman.fox@tydall.af.mil
Maj	Imelda	Catalasan	Workshop Management	Imelda.catalasan@lackland.af.mil
1Lt	Jerome	Vinluan	Workshop Registration	VinluanJ@oki10.med.navy.mil
CPT	Veda	Kennedy	Workshop Management	vkennedy@nairobi.mimcom.net
CDR	Cindy	Wilkerson	Secretary	cewilkerson@sar.med.navy.mil



Sheraton Boston Hotel

Prudential Center, 39 Dalton Street , Boston, Massachusetts 02199 , United States
Phone (617) 236-2000 Fax (617) 236-1702 <http://www.starwood.com/sheraton>

Nestled in charming and historic Back Bay, the Sheraton is ideally situated for business and leisure travel. Just four miles from Boston's Logan International Airport, the Sheraton is also close to the Financial District, and businesses in Copley Square and Downtown Crossing. Newbury Street, "The Rodeo Drive of Boston" is just steps away as well as the scenic Charles River and numerous shops, restaurants, and museums.



From Logan International Airport:

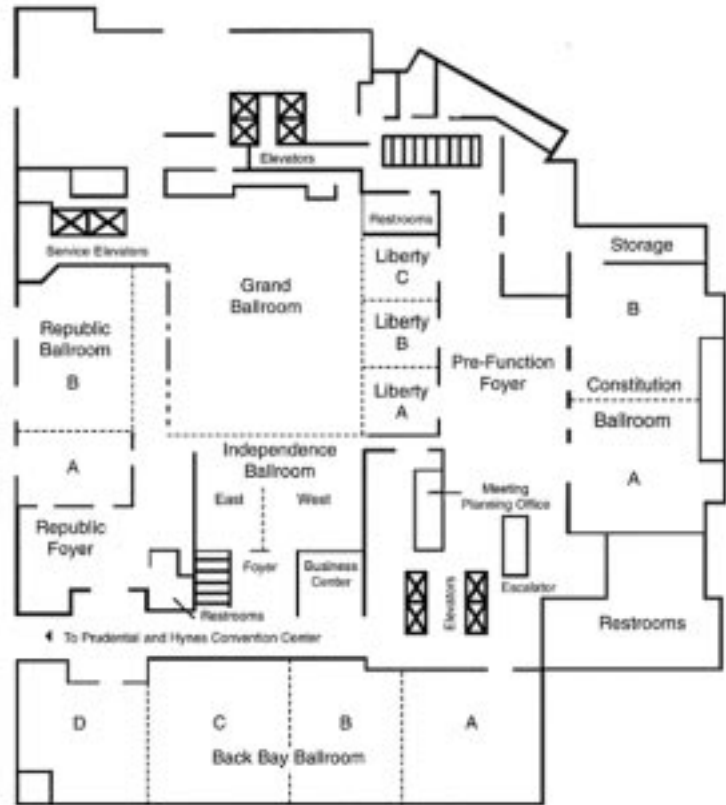
Take the tunnel to Interstate 93 North. At the second exit take Storrow Drive and proceed to the Fenway exit which will be on the left. Staying in the left lane, continue through five lights and take a right onto Dalton Street.

From North: Take Interstate 93 South to Storrow Drive. Proceed on Storrow Drive until you come to the Fenway exit which will be on the left. Stay to the left (this will be Boylston Street) and go through 5 traffic lights. At the fifth light, take a right onto Dalton Street. Proceed to the hotel.

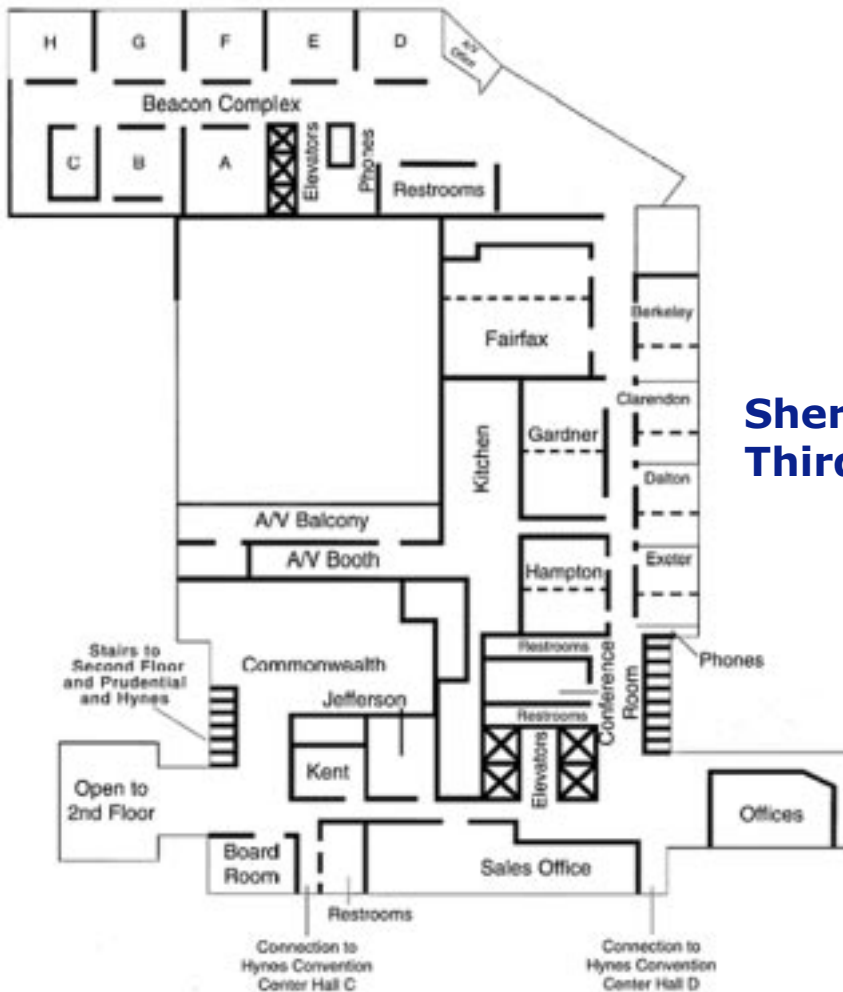
From South: Take Interstate 93 North to Massachusetts Avenue (Exit 18). Take a right at the bottom of the off-ramp onto Massachusetts Avenue. Continue for approximately one mile, and then take a right onto Huntington Avenue. At the second light turn left onto Belvedere. The hotel is on the right.

From West: Take Interstate 90 East (Massachusetts Pike) to Exit 22 (Prudential Center/Copley Square). Once above ground on Huntington Avenue and at the first set of lights, take a right onto Belvedere. The hotel is on the right.

Sheraton Boston Hotel Second Floor-Plaza Level Meeting Space

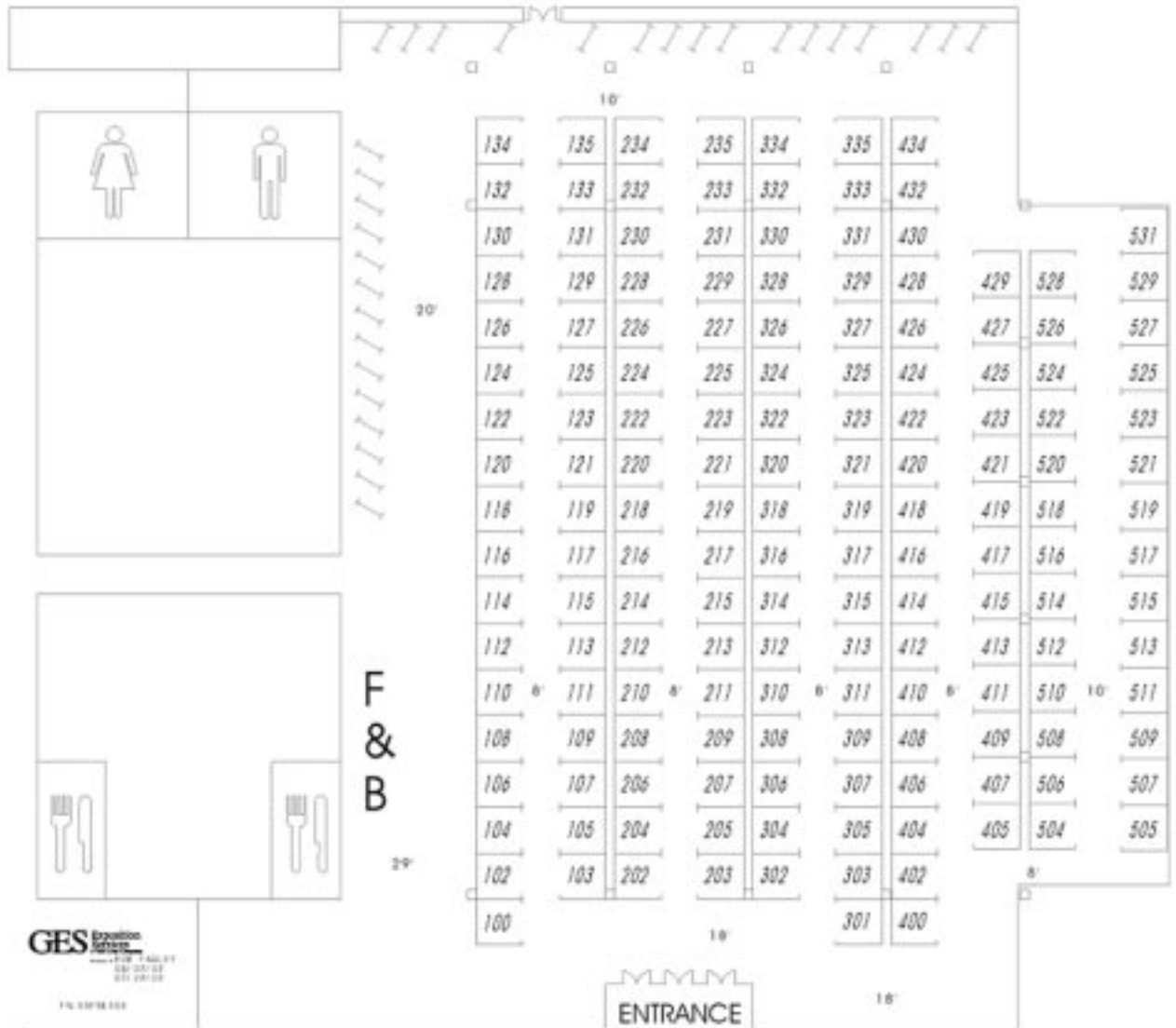


Sheraton Boston Hotel Third Floor Meeting Space



Second Level - Exhibition Hall D

HYNES CONVENTION CENTER



GES Exposition Systems
 176 10'x10' 100

SAFMLS
 FEBRUARY 2004
 HALL D
 162 10'X10' BOOTHS
 30 DOUBLESIDED POSTERBOARDS

SAFMLS 2004 ANNUAL MEETING SPECIAL MEETING ROOM REQUEST

Title/Function:

Date Required:

Time Range:

Maximum Enrollment:

Meeting Type (e.g., restricted workshop, breakout):

AUDIOVISUAL SUPPORT

Overhead Projector: 35 mm Slide Projector: Slides Carousels (*number*):Video Player and Monitor: PowerPoint Projector: (*workshops and short topics only*)

Other, Specify:

NOTE: Laptops WILL NOT be available (except for short topics session). Laser pointers will be available at the information desk (advance request not required).

MEETING ROOM AND SUPPLY REQUIREMENTS

Paper (*type/number*):

Room Size:

Pencils/Pens:

Tables (*type/number*):

Flip Chart with Markers:

Arrangement of Tables:

Other, Specify:

PRESENTER/MODERATOR

Name:

Rank:

Branch:

Corps:

Address:

Phone:

Fax:

E-mail Address:

DSN:

If you need a room for a Special Meeting, please complete this application and forward to the Point of Contact below.
Mail, Fax, or e-mail to:

1LT Jerome L. Vinluan

DSN: 315-643-7737

PSC 482 Box 2462

FAX: 315-643-7429

FPO AP 96362

VinluanJ@oki10.med.navy.mil

For Audiovisual questions contact

1LT Julie Johnson

Voice: 843-963-6843

DSN: 673-6843

Julie.Johnson1@charleston.af.mil

APPLICATIONS MUST BE RECEIVED BY 15 DEC 2003

CALL FOR WORKSHOPS / SHORT TOPIC PRESENTATIONS

Jerome L. Vinluan, 1LT, USAF, BSC

The Society of Armed Forces Medical Laboratory Scientists seeks motivated workshop and short topic presenters during the annual meeting and symposium to be held in Boston from 23-26 February 2004. This is a wonderful forum to teach and provide attendees with continuing education opportunities, to exhibit scientific research findings, showcase your operations or facilities, or share case studies with peers. Presentations are not limited to the scientific arena. Historically, presentations dealing with lab management, professional and military career development, and a myriad of lab-related topics have been well received. Presenters have the option of presenting either 2-hour or 4-hour workshops. While Short Topic presentations are limited to either 20 minutes or 40 minutes in duration.

All presentations during SAFMLS are accredited with Professional Acknowledgement for Continuing Education (PACE) credits. Strict guidelines must be followed to ensure your presentation is PACE-accredited. The process while stringent is uncomplicated. All presenters must submit a *curriculum vitae* (CV) preferably limited to one page. Information should include general demographics information, education and work histories, and listings of previous publications if any. The second requirement is an abstract of your proposed presentation. This is nothing more than a general overview of your topic. It is a requirement to also provide three objectives attendees will gain or learn from your presentation.

Please put all abstracts in the following format:

TITLE: BOLD, ALL CAPS, TIMES NEW ROMAN, 10 PITCH

List authors: name, rank, service, corps. Title case. Times New Roman, 10. (No space after title, but on next line.) Leave one line space before the body of the abstract. The body of abstract should be in sentence case, Times New Roman, 10.

All CV's and abstracts must be completed in MS Word and submitted along with a completed Workshop/Short Topic application form available on the SAFMLS website (www.safmls.org). Send all three completed requirements via the corresponding POC below. If you do not receive confirmation within 5 business days please resubmit or call to ensure your application was received. While e-mail is the preferred means of submission requirements may also be faxed or mailed to the individuals below:

WORKSHOPS:

1LT Jerome Vinluan
PSC 482 Box 2462
FPO AP 96362
DSN Fax: 315.643.7429
DSN: 315.643.7737
E-mail: vinluanj@oki10.med.navy.mil

SHORT TOPICS:

LCDR Christine Congdon
Naval Hospital, Camp Lejeune
100 Brewster Blvd
Camp Lejeune, NC 28547
910-450-4612 DSN 750-4612
FAX 910-450-4610 DSN 750
CLCongdon@nhcl.med.navy.mil

Thank you for your support for the SAFMLS 2004 Annual Meeting. For any questions and other concerns please feel free to contact 1LT Vinluan via the e-mail address above or via telephone at DSN 315.643.7737 (Note: May require operator assistance for overseas DSN line access) or commercially at 011.81.611.743.7737. See you in Boston!

SAFMLS 2004 ANNUAL MEETING WORKSHOP & SHORT TOPIC PRESENTATIONS

Please select between short topic presentations or workshop. Select the appropriate length of your presentation.

<input type="checkbox"/> SHORT TOPIC	<input type="checkbox"/> 20 minutes	<input type="checkbox"/> 40 minutes	<input type="checkbox"/> WORKSHOP	<input type="checkbox"/> 2 Hour	<input type="checkbox"/> 4 Hour
--------------------------------------	-------------------------------------	-------------------------------------	-----------------------------------	---------------------------------	---------------------------------

PRESENTER/SPEAKER

Name:	Rank:	Branch:
-------	-------	---------

Mailing Address:

e-mail:	Phone:	DSN:	Fax:
---------	--------	------	------

AUDIOVISUAL SUPPORT

35 mm Slide Projector: <input type="checkbox"/>	Slides Carousels (<i>number</i>):
---	-------------------------------------

Video Player and Monitor: <input type="checkbox"/>	LCD (PowerPoint type) Projector: <input type="checkbox"/>
--	---

Other, Specify:

NOTE: Laptops will only be available for short topics sessions. Laser pointers will be available at the information desk .

PRESENTATION

Title:	Maximum enrollment:
--------	---------------------

Objectives: Please list 3 objectives participants will take from your presentation. This is required for CME accreditation.

Objective 1:

Objective 2:

Objective 3:

Mail, Fax, or e-mail to:

WORKSHOPS:

1Lt Jerome L. Vinluan
PSC 482 Box 2402
FPO AP 96362

DSN: 315-643-7737
FAX: 315-643-7429
vinluanj@oki10.med.navy.mil

SHORT TOPICS:

LCDR Christine Congdon
Naval Hospital, Camp Lejeune
100 Brewster Blvd
Camp Lejeune, NC 28547

910-450-4612
DSN: 750-4612
CLCongdon@nhcl.med.navy.mil

In addition to this completed form, please e-mail abstracts and presenter's curriculum vitae (CV) in Microsoft Word format to address above. CV's are limited to one page only. Abstracts will be published in 2004 SAFMLS Meeting Program. If you do not receive confirmation within 3 days please call to verify submission.

APPLICATIONS MUST BE RECEIVED BY 15 DEC 2003



MEMBERSHIP APPLICATION

Name		Rank/Grade	SSN
Br of Svc	Duty Status: Active _____ Reserve/NG _____ Civilian _____ Retired _____		Corps
Duty/Business Address			Phone ()
Home Mailing Address			Phone ()
Send Mail to (Check only one): Home _____ Work _____			

EDUCATION

Institution, City, State	Dates Attended	Major	Degree	Laboratory Science* Credit Hours

*Biochemistry, Laboratory Management/Administration, Medical Technology, Anatomical Pathology, Clinical Pathology, Toxicology, Microbiology, Cytology, Biomedical Research, etc.

CERTIFICATIONS, REGISTRATIONS, LICENSURES (DATES)

MEDICAL LABORATORY WORK EXPERIENCE (Military/Civilian)

Location	Position Title	Dates

MEMBERSHIP APPLICATION

AGREEMENT: I hereby apply for membership in the Society of Armed Forces Medical Laboratory Scientists and agree to abide by its Constitution and By-Laws and to support its objectives. I understand that acceptance of my dues is contingent upon approval of my application by the Board of Directors.

ANNUAL DUES: \$15.00/year. Society dues are payable by 31 December of each year to maintain active membership and to continue receiving the Society Scope. Individuals requesting membership after 1 October will have their enclosed dues credited for the following calendar year.

NOTE: Application for membership MUST include a recommendation from a SAFMLS member, so indicated by entry of the member's printed name and signature in the space provided below.

SAFMLS Member's Name (please print) and Signature

Applicant's Signature

Send this application (with dues) to the Secretary"

CDR Cynthia E. Wilkerson
SAFMLS Secretary
611 Hawkes Island Drive
Green Cove Springs, FL 32043

Check should be made payable to "Society of Armed Forces Medical Laboratory Scientists" (SAFMLS)

For Use of Board of Directors:

Board Actions

Date:

_____ Approved

_____ Disapproved

Membership Category: _____ Member _____ Honorary _____ Emeritus

Comments:

Secretary, SAFMLS

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Calendar of

Events

COURSE INFORMATION	Location	Dates
College of American Pathologists	Los Angeles, CA	November 1, 2003
ASCP Workshop for Laboratory Professionals	Phoenix, AZ	05 Nov – 07 Nov 03
ASCP Workshop for Laboratory Professionals	Anaheim, CA	04 Dec – 07 Dec 03
American Society of Hematology	Philadelphia, PA	06 Dec – 10 Dec 03
SAFMLS	Boston, MA	22 Feb – 27 Feb 04
AACC	Los Angeles, CA	25 Jul – 29 Jul 04



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