



Chemical and Biological Defense

CBIAC
Information Analysis Center

Newsletter

Winter 2000

Volume 1 Number 1

A U.S. Department of Defense Information Analysis Center sponsored by the Defense Information Systems Agency, Defense Technical Information Center

THE NEW DEPUTY ASSISTANT FOR CHEMICAL AND BIOLOGICAL DEFENSE

John V. Wade, D.V.M., Ph.D.

On the 1st of September, 1999, I stepped down as the Acting Deputy Assistant to the Secretary of Defense, Chemical and Biological Defense, (DATSD(CBD)), retiring from the Army Veterinary Corps on October 31st after twenty-two and a half years of active duty service. This past year was certainly the culmination of my military career, and I will be ever grateful to Dr. John Hamre, Deputy Secretary of Defense (DEPSECDEF); Dr. Jacques Gansler, Under Secretary of Defense, Acquisition, Technology and Logistics (USD(AT&L)); Mr. Dave Oliver, Principal Deputy, Under Secretary of Defense, Acquisition, Technology and Logistics (PDUSD(AT&L)); and Dr. Hans Mark, Director of Defense Research and Engineering (DDR&E) for affording me that 'once-in a lifetime' opportunity. I would also like to take time to thank all of the people who have provided support to my office during this critical transition year. The CBD program experienced a great deal of change over the last 12 months due to two watershed events: the establishment of the new Defense Threat Reduction Agency (DTRA) and the almost overwhelming "renewed" interest in CB as it might pertain to terrorism and domestic preparedness. I did my best to provide some degree of programmatic stability during this phase of the program's evolution. There is no such thing as a "good time" to leave, but for several personal and professional reasons, this felt like the "right time." The decision was made much easier, however, upon selection of Dr. Anna Johnson-Winegar as my successor. I have known Dr. Johnson-Winegar for over a decade, but many of you have not been as fortunate, so I was delighted when the CBIAC suggested that I "introduce" her to you.

Dr. Johnson-Winegar holds a Bachelor of Arts degree in Biology from Hood College, as well as Master of Science and Ph.D. degrees in Microbiology from Catholic University of America. She has published numerous technical manuscripts, and authored/co-authored several book chapters. She is a long-standing member of numerous professional societies, including the American Society for Microbiology, American Academy of Microbiology (Fellow), American Association for the Advancement of Science, International Society of Toxicology, Society for Industrial Microbiology, Association for Women in Science, and Sigma Xi. She is an alumna of the Federal Executive Institute, and a graduate of various short courses in the general fields of science and technology, policy development, and management. In 1998, she received the lifetime achievement



Dr. Anna Johnson-Winegar
Deputy Assistant to the Secretary of Defense,
Chemical and Biological Defense
Office of the Director,
Defense Research and Engineering
3050 Defense Pentagon
Washington, D.C. 20301

award from Women in Science and Engineering. Most importantly, she brings over 20 years of Biological Defense experience to her current position.

Dr. Johnson-Winegar returns to the Office of the Secretary of Defense (OSD) staff after a year directing the Office of Naval Research (ONR) Human Systems science and technology programs which included biomedical programs, cognitive and neural sciences, human factors, and training technologies. Before joining the ONR, Dr. Johnson-Winegar served as Director of Environmental and Life Sciences in the Office of the DDR&E. Her primary responsibilities included monitoring and coordinating all Department of Defense (DoD) research and development

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The **Chemical Warfare/Chemical and Biological Defense Information Analysis Center (CBIAC)** is a Department of Defense (DoD) Information Analysis Center (IAC) administratively managed by the Defense Information Systems Agency (DISA), Defense Technical Information Center (DTIC) under the DoD IAC Program Office (Contract No. SPO700-00-D-3180). The CBIAC **Contracting Officer's Technical Representative (COTR), Mr. Joseph D. Williams**, may be contacted by email at Joseph.Williams@sbccom.apgea.army.mil or at the following address:

CDR USA SBCCOM
Edgewood Chemical Biological Center
ATTN: AMSSB-RRT-OM (Joe Williams E3330)
5183 Blackhawk Road
Aberdeen Proving Ground, MD 21010-5424

U.S. Government agencies and private industry under contract to the U.S. Government can contact the CBIAC for information products and services. CBIAC services also extend to all state and local governments and the first responder community such as local emergency planners, firefighters, medics and law enforcement personnel.

The CBIAC is located in Building E3330, Aberdeen Proving Ground - Edgewood Area, Maryland 21010. For further information or assistance, visit or contact the CBIAC.

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“DATSD(CBD)”*Continued from page 1*

(R&D) in the areas of medical and life sciences, training and personnel technologies, environmental sciences, environmental quality and civil engineering, chemical and biological warfare defense, and human systems interface.

Before joining DDR&E, Dr. Johnson-Winegar served as the Director of Medical Chemical and Biological Defense Research Programs at the United States Army Medical Research and Materiel Command at Fort Detrick, Maryland. In that capacity, her duties included planning, programming, and managing the entire scope of research programs in medical chemical and biological defense. She also served as Chair of the Joint Technology Coordinating Groups for medical chemical and biological defense. Her previous positions included product manager at the U. S. Army Medical Materiel Development Activity and research investigator at the U. S. Army Medical Research Institute of Infectious Diseases (USAMRIID).

In a rare quiet moment at OSD, I recently caught up with Dr. Johnson-Winegar and had the chance to ask her a few questions that I felt might interest the CBD community at large.

Dr. Wade:

We have each had three months to settle into our new positions. Have there been any major surprises so far, or is your new position what you expected it to be?

Dr. Johnson-Winegar:

While not exactly a surprise, I guess I am somewhat amazed at the significantly increased interest in chemical and biological defense, not only within the Pentagon, but in other government agencies, and the public and private sector as well. I am heartened by this level of energy. I am seeing and welcoming new ideas and new participants in a comprehensive effort to provide the highest quality CB defense.

Dr. Wade:

What do you see as the major strengths you bring to this position?

Dr. Johnson-Winegar:

I feel that my technical expertise provides a very strong foundation for me to carry out my responsibilities. Having first-hand experience in the laboratory working with BW [biological warfare] agents such as anthrax, SEB [Staphylococcal Enterotoxin B], and botulinum toxins gives me a realistic understanding of the technical challenges facing our researchers. I also value many other experiences in my career, such as my participation on the UNSCOM [U.N. Special Commission] inspection teams in Iraq where I gained a better appreciation for third-world capabilities to develop biological weapons. Finally, I think I have a good appreciation of program management, the PPBS [Planning, Programming, and Budgeting System] process, and, most importantly, the need to emphasize good communication

among all components of the chem-bio defense program. One of my highest priorities is to have a fully integrated CB defense program across all aspects of the work.

Dr. Wade:

What are the greatest challenges facing the Chemical and Biological Defense Program over the next several years?

Dr. Johnson-Winegar:

Finding the right balance between the short-term needs to procure items for equipping our military forces today and investing in our science and technology programs for tomorrow provides a real challenge. We are evaluating our current investments across board and will make any necessary adjustments. In addition, as the threat changes, our programs must be ready to respond. We are hearing a lot about genetically engineered organisms, and new generation chemical agents, not to mention the problem of toxic industrial compounds (which are not classical CW [chemical warfare] agents). Developing a better understanding of the significance of chronic exposures to low level agents is another area requiring our attention. Fully integrating chemical and biological defense into our operational procedures and doctrine still requires some attention.

“The CB threat has been facing us for a long time, and I do not think it will diminish any time soon. Quite the contrary -- in my opinion, we have to face an increasing possibility of seeing the use of chemical or biological agents - either in a military scenario or in a terrorist attack.”

Dr. Wade:

Over the past year we have seen an enormous increase in attention given to the threat of potential terrorist' use of chemical or biological agents, include here in the United States. Could you comment on the impact these various domestic preparedness initiatives have had or might have on the 'warfighter' program for which you are now responsible?

Dr. Johnson-Winegar:

As I mentioned before, this new attention to the threat of chemical and biological weapons has brought a lot of new people and organizations to the table, each with somewhat different needs and capabilities. I feel, however, that the Department of Defense remains the primary source of information and technology, based upon our years of investment in these CB programs. I feel that we can leverage the interest from the domestic terrorist perspective and find ways to develop complementary programs that will satisfy the needs of the warfighter and address issues specific to the civilian sector as well. In addition, there should be an increased market for the products that are developed in our CB defense R&D efforts.

Dr. Wade:

Are there any additional thoughts you would like to share with our CBIAC Newsletter readers?

**See “DATSD(CBD)”
Continued on page 8**

CBD CONTRACT AWARDS

By Mary Frances Tracy

1. **Development of Delivery Vehicle Targeting Cholinergic Neurons**
Metabiologics Inc.
505 South Sousa Road
Madison, Wisconsin 53719
\$99,570. September 2, 1999
By U.S. Army Medical Research Acquisition Activity
2. **Multipurpose Overboots (MULO)**
Tingley Rubber Corporation
South Plainfield, NJ
\$7,283,010. September 10, 1999
By Marine Corps Systems Command-Quantico
3. **Self-Contained Breathing Apparatus**
Fire Brand Inc.
3025 South Military Highway
Chesapeake, VA 23323
\$71,329. September 13, 1999
By NSWC-Dahlgren
4. **Environmental, Safety, Health, & Research Support for the Operations at the U.S. Army Soldier Biological Chemical Command**
SciTech Services Inc.
Abingdon, MD 21009
\$8,000,000. September 13, 1999
By U.S. Army Test & Evaluation Command-APG
5. **Oxygen Breathing Apparatus**
Ocenco Inc.
10225 82nd Avenue
Pleasant Prairie, WI 53158
\$35,242. September 15, 1999
By FISC-Puget Sound
6. **Training Kit for Oxygen Breathing Apparatus Canister**
Mine Safety Appliance Company
PO Box 428
Pittsburgh, PA 15230
\$98,700. September 17, 1999
By DPSC-Pittsburgh
7. **Small Facepiece for OBA-4**
Mine Safety Appliance Company
PO Box 428
Pittsburgh, PA 15230
\$99,466. September 17, 1999
By DPSC-Pittsburgh
8. **Topical Skin Protectant (TSP) Manufacturing Development**
McKesson BioServices
14665 Rothgeb Drive
Rockville, MD 20850
\$41,041. September 17, 1999
By U.S. Army Medical Research Acquisition Activity
9. **Large Size Respirator Facepiece**
Airgas Safety Inc.
Doing Business As (DBA) Ipco Safety Products of Pennsylvania
128 Wharton Road
Bristol, Pennsylvania 19007
\$87,202. September 17, 1999
By DPSC-Philadelphia
10. **Biological Warfare Defense Research**
Maxygen Inc.
515 Galveston Drive
Redwood City, CA 94063
\$6,753,064. September 22, 1999
By SPAWARSYSCEN-Charleston
11. **Outserts and Eyelenses for M40/M42 CB Masks**
Mine Safety Appliance Company
PO Box 428
Pittsburgh, PA 15230
September 27, 1999
By U.S. Army Tank-Automotive and Armaments Command-Rock Island
12. **XM93 for NBC Tactical Vehicle**
General Dynamics Land Systems Inc.
Sterling Heights, MI 48310-3268
\$3,698,686. September 27, 1999
By U.S. Army Tank-Automotive and Armaments Command-Rock Island
13. **Characterize RNA Editase Response to Bacterial & Viral Agents**
Yale University
47 College Street
Suite 203
PO Box 208047
New Haven, CT 06520-8047
\$152,418. September 29, 1999
By SPAWARSYSCEN-San Diego
14. **Proposal for Developing a Multi-Agent Chemical Sensor Suitable for Field Use Either as a Detector or Exposure Monitor**
Photonic Sensor
573B Courtland Street, NE
Atlanta, GA 30308
\$224,006. September 30, 1999
By Office of Naval Research-Arlington
15. **Tissue Based Biosensors**
Stanford University
857 Serra Street
Room 260
Stanford, CA 94305-5410
\$4,539,266. September 30, 1999
By SPAWARSYSCEN-San Diego
16. **Underwater Breathing Apparatus**
Draeger Safety Inc.
101 Technology Drive
Pittsburgh, PA 15275
\$568,524. September 30, 1999
By Coastal Systems, Dahlgren Div-Panama City
17. **Woodland Camouflage Temperate Coats & Woodland Camouflage Enhanced Hot Weather Coats**
American Apparel Inc.
Selma, AL
\$22,981,850. September 30, 1999
By Defense Supply Center-Philadelphia
18. **Woodland Camouflage Temperate Coats & Woodland Camouflage Enhanced Hot Weather Coats**
Golden Manufacturing Co., Inc.
Golden, MS
\$19,638,900. September 30, 1999
By Defense Supply Center-Philadelphia
19. **Woodland Camouflage Temperate Coats & Woodland Camouflage Enhanced Hot Weather Coats**
D.J. Manufacturing Corp.
Caguas, Puerto Rico
\$14,503,200.
September 30, 1999
By Defense Supply Center-Philadelphia
20. **Establishment and Operation of the Department of Defense Weapon Systems Technology Information Analysis Center**
IIT Research Institute
Chicago, IL
\$156,501,809. September 30, 1999
By Defense Supply Center-Columbus

See "CBD Contract Awards"
Continued on page 10

TAT PROFILE

Simulated Terrorist Attack Improves U.S. Bio-Response Capability

By Timothy A. Dixon, Public Relations Specialist
Battelle Edgewood Operations, Bel Air, MD

“Hundreds Dead; Thousands Ill. Terrorists Contaminate Food Supplies in Three States with Deadly Bacteria.”

These are the headlines U.S. officials hope they never see. Fortunately, it comes from a scenario used during an August tabletop exercise designed to improve the U.S. response to biological weapons incidents.

The U.S. Department of Agriculture (USDA) and the Department of Defense (DoD) co-sponsored a tabletop exercise and workshop to focus attention on the protection of the U.S. food supply from “agri-terrorism.” In the past, U.S. anti-terrorist activities have focused on preparing for attacks on the American populous through the inhalation of biological agents. Both the USDA and DoD recognized that ingestion of biological agents via food supplies poses an equally significant threat with its own unique characteristics and response needs.

The USDA underscored the significance of this effort through the participation of Undersecretary for Food Safety, Catherine Woteki, and Deputy Inspector General, Joyce Fleischman. “Agricultural exports represent one of the few areas where the United States maintains a positive balance of trade,” stated Woteki. “This exercise helps enhance an existing and effective surveillance and response system that can minimize terrorist impacts on the U.S. agriculture economy and on public health.”

The USDA and DoD structured the exercise and workshop to meet three primary objectives:

1. Review existing response procedures and examine their capacity to contend with an “agri-terrorist” incident;
2. Identify enhancements to current response procedures;
3. Assure the development of an integrated response.

To ensure these objectives were met, the USDA and DoD invited a diverse group of individuals and organizations to include state and local medical, public health, veterinary, agriculture and emergency response personnel. Additionally, representatives from the Department of Health and Human Services and the Department of Justice participated in the event.

Ensuring an integrated response is critical to successfully counter-acting a terrorist attack. “Getting representation from each of these groups and agencies helps to ensure we understand existing roles and responsibilities, while establishing new relationships to strengthen our overall response,” stated Mike DeZearn, DoD representative for the Biological Warfare Improved Response Program (BW IRP). “Additionally, gaps in the U.S. response capability are often perceived as deficiencies because an agency may not be aware that other organizations fulfill that function,” added DeZearn. A report of the exercise findings and discussions will be available in early 2000.

The exercise and workshop represent a continuing effort by the U.S. Army Soldier and Biological Chemical Command’s BW IRP to identify, develop, evaluate and demonstrate the best response procedures for local, state and federal responders to contend with biological terrorist incidents. The BW IRP was formed as a result of the Nunn-Lugar-Domenici funding, Public Law 104-201. The USDA exercise represents one of three major activities in this series. The BW IRP plans to conduct a joint workshop with the

Department of Justice, focusing on the integration of the criminal and epidemiological investigations associated with biological incidents. Additionally, the BW IRP will conduct a workshop with the Centers for Disease Control and Prevention to address issues involving contagious diseases. Both workshops are scheduled for early 2000.



For further information, you may contact:

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Washington, D.C. 20250-9305
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Fax: (202) 720-7708
Email: george.bickerton@usda.gov

CB IN THE NEWS

By Mary Frances Tracy

Chemical, Biological Defense Program Runs 'Hot & Cold'

Erwin, Sandra

National DEFENSE

September 1999

The Department of Defense's budget for fiscal years 2001 through 2005 includes \$4.2 billion for the nuclear, chemical and biological (NBC) defense program. Half of the funds are designated for research and development and the other half are for procurement of new equipment. This article describes some of the NBC defense programs and the difficulties involved in aligning the services and the needs within each service. However, this funding will target many joint service efforts. For instance, a new platform for detection called CBRIDS (Chemical, Biological, Radiological Integrated Detection System) is planned for the 2002-2007 timeframe.

Proposed Bio-Defense Lab Raises Concerns, Public Meetings Promised for Long Island Communities

Ruppe, David

http://www.abcnews.com/sections/us/DailyNews/bioterror_plumisland_990929.html

September 29, 1999

The Clinton Administration has proposed to build a civilian research facility just off the northern coast of Long Island for countering biological terrorism. The proposal incorporates upgrading the Department of Agriculture's Plum Island research laboratory so that the scientists can study diseases affecting humans and animals, such as anthrax and "mad cow disease." Currently, the lab specializes in diseases that can harm livestock - but not humans. The proposed expansion would upgrade the lab from the current Biosafety Level 3 facility to a Biosafety Level 4 facility. The other Biosafety Level 4 facilities in the U. S. include the National Institutes of Health in Bethesda, MD; the Centers for Disease Control in Atlanta, GA; the U.S. Army Medical Research Institute of Infectious Diseases in Frederick, MD; and a small facility at Georgia State University in Atlanta, GA. Other labs around the country that may also be upgraded from Biosafety Level 3 facilities are located in Athens, GA, and Ames, IA.

Defense Against Biological Terrorism

Sohns, Torsten

The ASA NEWSLETTER

October 29, 1999

This edited paper (full copy provided by ASA upon request) examines the possible dangers to civilians posed by biological warfare (BW) agents in the hands of terrorists and provides suggestions for appropriate defensive measures. Countermeasures for bioterrorism and proposals for an anti-bioterrorism program are described in length.

Domestic Terrorism With Chemical or Biological Agents:

Psychiatric Aspects

DiGiovanni, Cleto Jr., M.D.

American Journal of Psychiatry

October 1999

This article highlights the mental health consequences of a domestic terrorist incident involving chemical and/or biological (CB) weapons. The article delineates the need for psychiatrists in the event of a CB terrorist incident due to the disturbances of behavior and cognition which can result directly from the pharmacological actions of some CB agents.

Prescription For Survival

Roos, John

Armed Forces Journal INTERNATIONAL

October 1999

The U.S. will invest millions of dollars in the fiscal year in developing specialized detection and protective gear for use in the event of a CB incident, resulting in materiel suited for use both in U.S. cities and on distant battlefields. This article describes several CB defense programs that have recently been developed. Some of the programs developed as Joint-Service Contamination Programs are the Automatic Chemical Agent Detection Alarm (ACADA); Joint Warning and Reporting Network (JWARN); and the Joint Chemical Biological Agent Water Monitor (JCBAWM). Some of the Joint-Service Biological Detection Programs mentioned are the Interim Biological Agent Detector (IBAD); Air Base/Port Biological Detection (Portal Shield); Advanced Concept Technology Demonstration (ACTD); and Joint Biological Remote Early Warning System (JBREWS) ACTD. These and other programs are described in this article.

Grants aid bioterrorism preparations

Atwood, Dwayne

<http://www.adn.com:80/stories/T99110426.html>

November 4, 1999

In September the CDC began doling out some \$40 million for 127 projects around the U. S. to upgrade detection of and response to CB weapons. Alaska has been the recipient of three of these grants. The grants will aid Alaska in improving communications and disease detection, and to improve the Anchorage lab that could be responsible for testing for 5 lethal bacteria that would likely be tools of bioterrorism.

Detector in Your Pocket

Brown, Barry

<http://abcnews.go.com:80/sections/world/DailyNews/biotech991109.html>

November 11, 1999

A Canadian company has developed a biotechnology that could lead to the first pocket-sized CB warfare detector. The device is designed to alert the user to the presence of agents and the direction from which they came. In the device, a smart antibody chemically reacts to agents by generating a light. A spectral analysis of the light reveals what agent is present. This information can be flashed on a screen along with instructions to follow once the agent has been identified.

See "CB in the News"
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CALENDAR OF EVENTS

The CBIAC maintains a Calendar of Events highlighting conferences, symposia, meetings, exhibitions and workshops of interest to the CB community in every issue of our newsletter and on the CBIAC homepage at <http://www.cbiac.apgea.army.mil>. We invite CBIAC users to submit information on various events to Mary Jo Waters (watersm@battelle.org) at 410-612-6418.

2000 MEETINGS

February 22-23, 2000

Jane's Chem-Bio 2000: Across the Response Continuum

Hyatt Newporter

Newport Beach, California

POC: Marian Sullivan

Tel: (703) 683-3700 ext.204

(800) 824-0768 ext.204

Fax: (703) 836-0118

Email: conference@janes.com

URL: <http://conference@janes.com>

February 23, 2000

Technical Support Working Group Conference (TSWG)

Advanced Program Briefing for Industry (APBI):

TSWG Requirements for FY2001

(Event #009)

Sheraton Crystal City

Arlington, Virginia

POC: Kanzada Douglass

Tel: (703) 522-1820

Fax: (703) 522-1885

Email: kdouglass@ndia.org

URL: <http://www.ndia.org/>

March 1-4, 2000

South Carolina Emergency Care Symposium

Kingston Plantation/Embassy Suites

North Myrtle Beach, South Carolina

POC: Low Country Regional EMS Council

Tel: (843) 569-2220

Fax: (843) 569-2226

March 11-17, 2000

In-House Medical Management of Chemical and Biological Casualties Course (MCBC)

USAMRICD-Aberdeen Proving Ground, MD and USAMRIID-Fort

Detrick, MD

(Advance registration required)

POC: USAMRICD Chemical Casualty Care Division

Tel: (410) 436-2230

Fax: (410) 436-3086

Email: ccc@apg.amedd.army.mil

URL: <http://ccc.apgea.army.mil>

March 26-31, 2000

2000 Spring Simulation Interoperability Workshop

Holiday Inn International Drive Resort

Orlando, Florida

POC: Pat Burgess

Tel: (407) 658-5031

Fax: (407) 658-5059

Email: pburgess@ist.ucf.edu

URL: <http://siso.sc.ist.ucf.edu/siw/00spring/index.htm>

<http://www.sissostds.org.siw>

March 27-30, 2000

26th Environmental Symposium and Exhibition: Sustaining DoD Readiness:

"Changes and Challenges in DoD Environmental Priorities"

(Event #044)

Long Beach Convention Center

Long Beach, California

POC: Erin Curry

Tel: (703) 247-2578

Fax: (703) 522-1885

Email: ecurry@ndia.org

URL: <http://www.ndia.org/>

March 27-30, 2000

11th Annual U.S. Army Ground Vehicle Survivability Symposium

(Event #054)

DoubleTree Hotel & Naval Post Graduate School

Monterey, California

POC: Ira Click

Tel: (703) 247-2573

Fax: (703) 522-1885

Email: iclick@ndia.org

URL: http://www.ndia.org

April 2-6, 2000

DOD Medical Initiatives Conference & Exhibition

Weapons Mass Destruction (WMD 2000)

"MEDIC-WMD 2000"

(Event #017)

The Hyatt Regency Hotel

Arlington, Virginia

POC: Kanzada Douglass

Tel: (703) 522-1820

Fax: (703) 522-1885

Email: kdouglass@ndia.org

URL: <http://www.ndia.org/>

April 11-13, 2000

SLAAD Annual Symposium/Quarterly Meeting

(Event # 010)

JHU/APL

Laurel, Maryland

POC: Erin Curry

Tel: (703) 522-1820

Fax: (703) 522-1885

Email: ecurry@ndia.org

URL: <http://www.ndia.org/>

April 30-May 2, 2000

National Disaster Medical System Conference 2000

Alexis Park Hotel

Las Vegas, Nevada

POC: Beth Marshall, CHEP Program Office

Tel: (410) 642-1857

Fax: (410) 642-1090

Email: marshallbeth@hotmail.com

URL:

http://www.oep.dhhs.gov/NDMS_Conference/ndms_conference.html

May 6-12, 2000

In-House Medical Management of Chemical and Biological Casualties Course (MCBC)

USAMRICD-Aberdeen Proving Ground, MD and USAMRIID-Fort Detrick, MD

(Advance registration required)

POC: USAMRICD Chemical Casualty Care Division

Tel: (410) 436-2230

Fax: (410) 436-3086

Email: ccc@apg.amedd.army.mil

URL: <http://ccc.apgea.army.mil>

May 7-12, 2000

Chemical and Biological Medical Treatment Symposia Series CBMTS III

AC Laboratorium Spiez (ACLS)

Spiez, Switzerland

POC (U.S.): Richard Price

Tel: 207- 829-6376

Fax: 207-829-3040

Email: asa@ime.net

POC (ACLS): Dr. Rudolf Portmann

Email: CBMTS@gr.admin.ch

Fax: 41-33-22-8-1402

URL: <http://www.asanltr.com/>

May 15-18, 2000

Global Demilitarization Symposium & Exhibition

(Event #058)

Coeur d'Alene, Idaho

POC: Megan McCrory

Tel: (703) 522-1820

Fax: (703) 522-1885

Email: mmccrory@ndia.org

URL: <http://www.ndia.org>

May 22-24, 2000

The International CW Demil Conference (CWD2000)

OPCW (May 22)

Dutch Ministry of Foreign Affairs (May 23-24)

The Hague, Netherlands

POC (DERA): Ian Chilcott

Tel: +44 (0) 1980 613129

Fax: +44 (0) 1980 613139

Email: dmil@dera.gov.uk or eichilcott@aol.com

URL: <http://www.dera.gov.uk>

May 22-25, 2000

Remediation of Chlorinated and Recalcitrant Compounds: The Second International Conference

Monterey Conference Center

Monterey, California

Tel: (800) 783-6338 (USA and Canada), (614) 424-5461

Fax: (614) 488-5747

Email: conferencegroup@compuserve.com

URL: <http://www.battelle.org/environment/er/chloconf.html>

June 4-9, 2000

U.S. Army Medical Defense Bioscience Review 2000

Marriott's Hunt Valley Inn

Hunt Valley, Maryland

POC: Katie Deel

Tel: (410) 679-3290

Fax: (410) 679-7104

Email: Kathy.M.Deel@SAIC.com

URL: http://chemdef.apgea.army.mil/Bios...%202000/bioscience_review_2000.htm

June 12-15, 2000

FEMA 2000 Technology Partnerships for Emergency Management Workshop: "Moving Preparedness, Mitigation, and Response into the Next Millennium"

Sheraton Hotel

Colorado Springs, Colorado

POC: Kimberly Taylor

Tel: (303) 275-4358

Fax: (303) 275-4320

Email: kimberly_taylor@nrel.gov/surviving_disaster

June 13-15, 2000

NBC 2000: Symposium on Nuclear, Biological and Chemical Threats in the 21st Century

Helsinki University of Technology

Espoo, Finland

POC: Dr Katri Laihia

Tel: +358-14-602 655

Fax: +358-14-602 501

Email: laihia@cc.jyu.fi

URL: <http://www.vtt.fi/aut/rm/spt/index1.htm>

June 19-23, 2000

Worldwide Chemical Conference

(Event #030)

Fort Leonard Wood, Missouri

POC: Dick Riegel

Tel: (703) 247-2593

Fax: (703) 522-1885

Email: driegel@ndia.org

URL: <http://www.ndia.org>

June 19-23, 2000

EUROSATORY 2000: International Land Defence Equipment Exhibition

Paris-Le Bourget, France

Tel: 33-1 44 14 58 10

Fax: 33-1 42 30 70 88

Email: Coges.eurosatory@wanadoo.fr

URL: <http://www.eurosatory.com/anglais/welcome.shtml>

June 26-29, 2000

The 6th Annual Joint Aerospace Weapons Systems Support, Sensors and Simulation (JAWS S³) Symposium & Exhibition

(Event # 092)

Adam's Mark Hotel San Antonio Riverwalk

San Antonio, Texas

POC: Erin Curry

Tel: (703) 247-2578

Fax: (703) 522-1885

Email: ecurry@ndia.org

URL: <http://www.ndia.org>

<http://www.jawswg.hill.af.mil>

June 26-29, 2000

16th Annual Security Technology Symposium & Exhibition Williamsburg Marriott

Williamsburg, Virginia

(Event #049)

POC: Angie DeKleine

Tel: (703) 247-2599

Fax: (703) 522-1885

Email: adekleine@ndia.org

URL: <http://www.ndia.org/>

CBIAC ACTIVITIES

By CBIAC staff

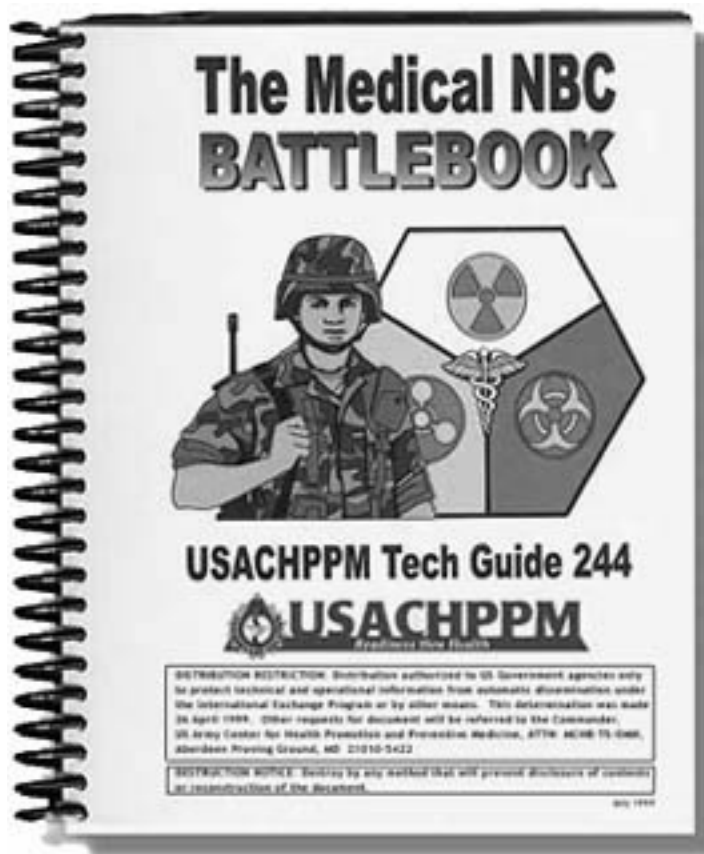
◆ Dr. Jim King, CBIAC Deputy Director, and Mr. Don McGonigle, CBIAC Information Systems Manager, visited Mr. John Hnatio and Dr. Bob Hughes, Industrial College of the Armed Forces (ICAF), National Defense University (NDU), Fort McNair, DC on October 14, 1999. Mr. Hnatio is developing a seminar on strategic decision making and complex national security events involving weapons of mass destruction. Dr. King covered IACs and a CBIAC overview. Mr. McGonigle discussed Biological and Chemical Warfare Online Repository and Technical Holdings (BACWORTH) and Chemical and Biological Archival Information Management System (CBAIMS). Follow-on meetings are planned.

◆ Mr. Don McGonigle participated in the **International Symposium on Occupational Exposure Databases and Their Application for the Next Millennium**. The symposium was held in London, UK from November 1 through 3, 1999. The CBIAC display, which featured our database work, was a focus of attention, and gave the CBIAC the opportunity to address exposure database consistency, compatibility, and interchangeability in a major international setting.

◆ On November 30, 1999, CBIAC staff members Mr. Richard Gilman, Ms. Judy Hermann, and Ms. Suman Adler attended a talk by Dr. D.A. Henderson on "The Booming Threat of Terrorism: Rumor or Reality." Dr. Henderson is the Director of the Center for Civilian Biodefense Studies at the Johns Hopkins School of Hygiene and Public Health. The Center fosters development of medical and public health policies and structures to protect civilian populations from bioterrorism. Dr. Henderson examined U.S. and international bioterrorism defense policies, e.g., surveillance, clinical and laboratory diagnosis, epidemiology, quarantine, vaccination and treatment. Participation afforded the CBIAC an outstanding opportunity to interact with CB defense experts from academia.

◆ On December 1, 1999, Mr. Ron Evans, Director, CBIAC met with COL Pat Nilo, the Commandant of the U.S. Army Chemical School, Maneuver Support Center at Fort Leonard Wood, MO. During the meeting, COL Nilo and Mr. Evans explored means through which the CBIAC could support the Chemical School's strategic and business planning processes and outlined approaches to maintain and strengthen the linkage between the Chemical School and the CBIAC.

◆ On December 2, 1999, Mr. Ron Evans, Dr. Jim King, and Ms. Janice Rhodes, CBIAC Technical Area Task Manager, met with LTC Robert Serino, Chief of the Chemical Division, Maneuver Support Center Directorate of Combat Developments, Fort Leonard Wood, MO. Discussions were held to determine the support needs of the Chemical Division and identify means through which the CBIAC could provide support for Chemical Combat Developments and assist in development of the Future NBC Architecture Plan.



The Medical NBC Battlebook Available from the CBIAC

The Medical NBC Battlebook (U.S. Army Center for Health Promotion and Preventive Medicine [USACHPPM] Tech Guide 244) can now be ordered from the CBIAC. The Battlebook covers nuclear weapons, radiological hazards, biological agents, chemical agents, lasers and radiofrequency hazards, NBC defense equipment, and points of contact. The Battlebook is only available to U.S. Government Agencies.

DoD agencies and units can order free copies by sending an official request to:

Commander
U.S. Army Center for Health Promotion and Preventive Medicine
5158 Blackhawk Road
Aberdeen Proving Ground, MD 21010-5422

The request must contain a mailing address and a point of contact. The memorandum must be signed by the commander or other appropriate authority.

CBIAC distributes the Battlebooks to non-DoD agencies at a cost of \$5.00 per copy.

For more information contact the CBIAC:

Telephone: 410-676-9030
Facsimile: 410-676-9703

“DATSD(CBD)”*Continued from page 3***Dr. Johnson-Winegar:**

I am very pleased to have been selected for this position and look forward to working with all aspects of the CB community. I want to emphasize the joint nature of the DoD program, and to ensure that all the DoD efforts are coordinated with other government agencies, with academia and industry and with our Allies. The CB threat has been facing us for a long time, and I do not think it will diminish any time soon. Quite the contrary -- in my opinion, we have to face an increasing possibility of seeing the use of chemical or biological agents- either in a military scenario or in a terrorist attack. It is incumbent upon all of us to focus our efforts so that we can be better prepared for that eventuality. I admit we have a big challenge ahead, but I am confident that we have the foundation for a strong program that will move us to achieving our objectives. I look forward to the opportunity to visit with the participating organizations, laboratories, and contractors in the CB defense program and to meet the people involved in this high priority work.



WINTER 2000

“CB in the News“*Continued from page 6*

Weapons detector - INEEL turns motor home over to Army
Langston, Jennifer

http://www.idahonews.com/11101999/the_west/94611.htm

November 17, 1999

The Idaho National Engineering and Environmental Laboratory (INEEL) has developed a “souped-up“ Winnebago for the Army that can detect what is inside an unexploded weapon, the presence of deadly gases in the surrounding air, or residue in soils if one of the weapons has leaked. The transportable laboratory can transmit information anywhere in the world by satellite. Additionally, X-ray equipment is on board that uses digital computing instead of film to figure out where the liquid and explosive tubes are located within a container or weapon.

Additional CB articles that may be of interest are listed below:

The Demon in the Freezer

Preston, Richard

<http://www.cryptome.org/smallpox-wmd.htm>

September 29, 1999

Improved Modular Decontamination Equipment

Bucci, Rinaldo

Army RD&A

September-October 1999

Glimpsing The Future: New Chem/Bio Gear Hints At What's In Store Tomorrow

Roos, John

Armed Forces Journal INTERNATIONAL

October 1999

Seoul claims North Korea chemical weapons up fivefold

<http://cnn.com/ASIANOW/east/9910/11/arms.korea.north.reut/index.html>

October 12, 1999

Acoustic trickery can spot dangerous chemicals in sealed drums

Sample, Ian

<http://www.newscientist.com:80/ns/19991030/newstory4.html>

October 30, 1999

DoD Works to Counter Chemical-Biological Threats

Kozaryn, Linda

http://www.defenselink.mil/news/Nov1999/n11031999_9911034.html

November 5, 1999

21st Century Inventions: Warfare

Rosner, Hillary

<http://www.msnbc.com:80/news/334593.asp?cp1=1>

November 12, 1999

Russia Gives Rare Chemical Arms Facts, Wants Help

<http://www.russiatoday.com:80/news.php3?id=114229>

December 2, 1999

NEW CB RESOURCES

By Richard M. Gilman

Books

Potomac Institute for Policy Studies. **Counter Biological Terrorism Panel. Countering Biological Terrorism in the U.S.: An Understanding of Issues and Status.** Dobbs Ferry, NY: Oceana Publications, 1999, pp. 426.

A group of leading military and civilian experts collaborate in an analysis of the threats posed by biological weapons and the growth of nihilistic terrorist groups bent on inflicting large numbers of casualties. Topics covered include the "The Emerging Threat Environment;" "Defense Against Biological Weapons;" "Countering Terrorist Groups;" "Countering Emerging Infectious Diseases;" "Views on Soviet Biological Weapons Program;" "The Role of Intelligence in Combating Terrorism;" "Bioterrorism Consequence Management;" "Advanced Countermeasures;" "The Case for a Special Operations Response to Biological Terrorism;" "Bio-terrorist Attack Pathways and Social/Civil Infrastructure;" "DOD Assistance to Civil Authorities"; and "New Approaches to Counter Biological Terrorism with Electrotechnologies."

There are two appendices. Appendix A provides short biographical notes about the panel of experts who contributed to the book. Appendix B provides "Background Information on Arms Control and Biological Terrorism."

CB-168283
ISBN 0-379-21395-8
Oceana Publications, Inc.
75 Main Street
Dobbs Ferry, NY 10522
(914) 693-8100

Documents from the Web

CDC, FDA, PHTN and USAMRIID. **Biological Warfare and Terrorism: The Military and Public Health Response.** Sept., Oct. 1999.
<http://www.biomedtraining.org/handouts.htm>

In September and October of this year the CDC, FDA, PHTN (Public Health Training Network) and USAMRIID (U.S. Army Medical Research Institute for Infectious Disease) jointly sponsored two live satellite broadcasts of this program. The target audience includes military and civilian medical providers, public health professionals, clinical laboratory staff, first responders and others who would be called upon to recognize and manage casualties in the event of a bioterrorist attack.

There are approximately 251 pages of course materials. These include a course handbook compiled by USAMRIID, student material, a "Bioterrorism Readiness Plan" for healthcare facilities and a CDC compilation of "Case Definitions for Infectious Disease Conditions."

CB-168506
USAMRIID
Ft. Detrick, MD 21702-5011

Journals

Annals of Emergency Medicine. Vol. 34, No. 2 (August 1999), pp. 177-212, 219-224 and 229-232.

The nine articles in this issue dealing with terrorism utilizing chemical or biological weapons underscore the increasing emphasis practitioners of emergency medicine are placing on meeting this threat. The themes covered include training medical residents how to respond to bioterrorism, responding to the release of chemical warfare agents in the civilian community, an emergency room protocol for handling contaminated patients and interim CDC guidelines for handling the alleged terrorist use of anthrax.

CB-168284
ISSN 0196-0644
Mosby, Inc.
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St. Louis, MO 63146-3318
1-888-325-4177

Website resources for CB research

Aerobiological Engineering
<http://www.engr.psu.edu/www/dept/arc/server/wjkaerob.html>

Analytical Chemistry (Sci-media encyclopedia of...)
<http://www.scimedia.com/chem-ed/analytic/ac-media□meths.htm>

Canadian Centre for Occupational Health and Safety—Internet Directory
<http://www.ccohs.ca/resources/>

Medical Microbiology
<http://gsbs.utmb.edu/microbook/>

Mitretek—Site Map for Chemical, Biological and Nuclear Systems
http://www.mitretek.org/mission/envene/site_map.html

National Antimicrobial Information Network
<http://www.ace.orst.edu/>

Pharma Scientific and Regulatory Affairs—Biological and Chemical Weapons
<http://www.pharma.org/srpub/weapons.html>

SBCCOM—Program Director for Domestic Preparedness
<http://dp.sbccom.army.mil>

U.S. Airforce Counterproliferation Center
<http://www.au.af.mil/au/awc/awcgate/awc-cps.htm>

INQUIRIES

By Judith A. Hermann

Excerpts from Inquiry 1999-0406:

Q: What progress has been made in the development of decontamination products delivered through fire fighting foams?

A: DS2 and bleach solutions are commonly used for decontamination of nerve agents. Research is underway to investigate the use of biocatalytic decontamination methods.

OPAA-2, the organophosphorus acid anhydrolase produced by *Alteromonas* JD6.5, has a very high catalytic activity against Soman (GD), Sarin (GB), GF, and the nerve-agent analog diisopropyl fluorophosphate (DFP). The gene encoding OPAA-2 has recently been cloned in *Escherichia coli*. The resulting recombinant *E. coli* is capable of producing large quantities of the nerve-agent degrading enzyme.

This has paved the way for studies assessing the potential of enzyme-based decontamination systems, including those incorporated into fire fighting foams, to provide effective, non-toxic, non-corrosive, and environmentally friendly nerve agent decontamination.

Using a different approach, Sandia National Laboratories has recently filed for a patent on a substance tentatively called Decon Foam 100 (1). During preliminary testing it destroyed simulants of VX, mustard and soman and it also destroyed a simulant of anthrax. The expectation is that this single product will quickly and effectively decontaminate all chemical and biological agents including viral particles and bacterial spores. It is said to be a fire retardant as well.

The Decon Foam would be inexpensive to produce, harmless to people and could begin neutralizing chemical, biological, or combinations of agents in minutes. The active ingredients, surfactants and mild oxidizing substances, are delivered through a special nozzle to generate a quantity of foam about 100 times its original liquid volume. Within several hours the product, now returned to its liquid state, should be "benign enough following a chem-bio incident to be washed down the drain like dish soap." (1)

Studies examining the feasibility of enzyme mediated decontamination include:

CB-104464

Cheng, T-C., Calomiris, J. J. : *A Cloned Bacterial Enzyme for Nerve Agent Decontamination. Enzyme and Microbial Technology* 18:597-601, 1996.

CB-107091

LeJeune, K.E., Russell, A. J.: *Biocatalytic Nerve Agent Detoxification in Fire Fighting Foams. Biotechnology and Bioengineering*, 62(6):559-665, September 1998

Reference:

1. <http://www.newswise.com/articles/1999/3/FOAM.SNL.html>

"CBD Contract Awards"

Continued from page 4

21. Air Filter Assembly

Aerometals Inc.
3920 Sandstone Drive
El Dorado, CA 95762
\$59,400. October 6, 1999
By Defense Supply Center-Richmond

22. M45 CB Mask Spare Faceblanks

Campbell Plastics Engineering & MFG., Inc.
130 S. Klug Circle
Corona, CA 91720
\$99,717. October 20, 1999
By U.S. Army Tank-Automotive and Armaments Command-Rock Island

23. Establishment and Operation of the Chemical and Biological Defense Information Analysis Center

Battelle Memorial Institute
Columbus, OH
\$174,171,306. October 28, 1999
By Defense Supply Center-Columbus

24. Woodland Camouflage Enhanced Hot Weather Coats

Caribbean Needle Point, Inc.
Penuelas, Puerto Rico
\$8,008,041. November 9, 1999
By Defense Supply Center-Philadelphia

25. Woodland Camouflage Enhanced Hot Weather Coats

EA Industries, Inc.
San Lorenzo, Puerto Rico
\$15,278,910. November 9, 1999
By Defense Supply Center-Philadelphia

BATTELLE WINS CBIAC CONTRACT

Battelle's work in the chemical and biological defense arena continues to strengthen with the recent win of a 10-year, \$174 million Chemical and Biological Defense Information Analysis Center (CBIAC) contract with the Department of Defense (DoD).

The contract win continues Battelle's 13 years of operating the CBIAC at Aberdeen Proving Ground Edgewood Area, MD, for the DoD. Battelle serves as prime contractor for CBIAC and has five subcontractors. They are: Horne Engineering Services, Inc.; Quick Silver Analytics, Inc.; Sci Tech Services, Inc.; MTS Technologies, Inc., and Innovative Emergency Management, Inc.

In addition to supporting the DoD, the CBIAC has interagency agreements in place to support other federal agencies such as the Departments of Energy, State, Justice and Transportation. The CBIAC's core program services extend to all state and local governments and the first responder community such as local emergency planners, firefighters, medics and law enforcement personnel.

CBIAC User Survey 2000!

The CBIAC is starting a new year and a new contract! Please take a moment to provide feedback so that we may incorporate your suggestions and improve our products and services to the chemical and biological defense community. Please fax your response to the attention of Mary Jo Waters at (410) 676-9703. Thank you!

1. How did you become aware of the CBIAC's Products and Services? (Check all that apply):

- | | | |
|---|--|---|
| <input type="checkbox"/> Advertising | <input type="checkbox"/> Co-worker | <input type="checkbox"/> CBIAC Starter Kit or Flyer |
| <input type="checkbox"/> Briefing | <input type="checkbox"/> Database Search | <input type="checkbox"/> Internet Search |
| <input type="checkbox"/> CBIAC Homepage | <input type="checkbox"/> Conference Display | <input type="checkbox"/> Other |
| <input type="checkbox"/> CBIAC Newsletter | <input type="checkbox"/> Referral from another IAC | |

2. Please rate the CBIAC products and services that you have used, using the following scale:

5=Excellent 4=Very Good 3=Satisfactory 2=Fair 1=Poor

- Inquiry and Referral Services _____
- Databases _____
- TATs _____
- CBIAC homepage _____
- Bibliographies _____
- Newsletters _____
- Directories _____
- State of the Art Reports (SOARS) _____
- Critical Reviews/Technology Assessments _____
- Databooks _____
- Handbooks _____
- Proceedings _____
- Training Aids _____
- CD-ROMs _____

3. What topics would you recommend for the following CBIAC products?

- Handbooks _____
- State-of-the-Art Reports _____
- Critical Reviews _____
- Training Aids _____

4. Which medium do you prefer for CBIAC products?

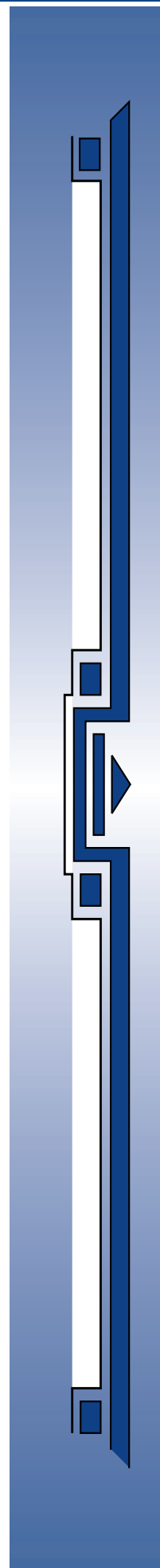
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- Electronic format on disk
- Electronic format on CD

5. Is your mailing label correct? If you have not provided the CBIAC with an updated mailing address within the last year, please take a moment to do so now.

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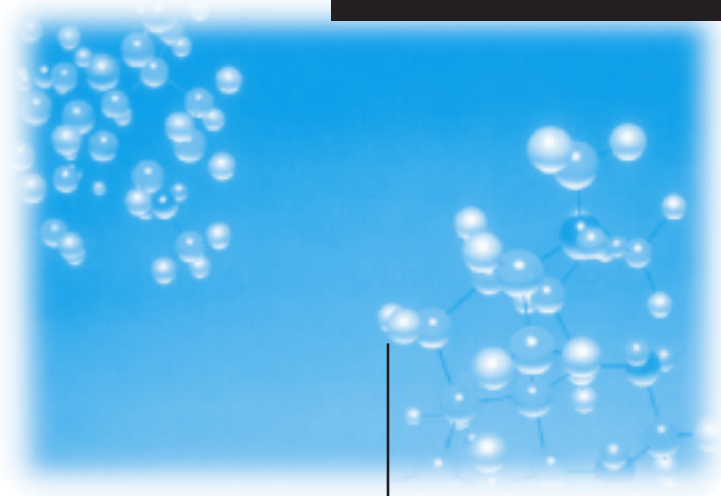
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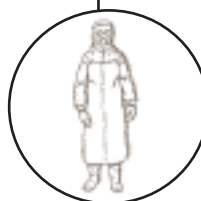
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