

CBIAC

The CBIAC's scope covers all aspects of CW/CBD, including:

- Analysis of Manufacturing Processes for NBC Defense Systems
- Chemical & Physical Properties of Military Significant Compounds
- Chemical Identification
- Combat Effectiveness
- Counter-Proliferation
- Counter-Terrorism
- Decontamination
- Defense Conversion & Dual-Use Technology Transfer
- Demilitarization
- Domestic Preparedness
- Environmental Fate & Effects
- Force Protection
- Individual & Collective Protection
- International Technology, Proliferation, & Arms Control
- Medical Effects & Treatment
- Nuclear, Biological, & Chemical Contamination Survivability (NBCCS)
- Smoke & Obscurants
- Toxic Industrial Chemicals/Materials
- Toxicology
- Treaty Verification & Compliance
- Warning & Identification

The DoD must work continuously to establish adequate defense capabilities for chemical and biological weapons scenarios. These weapons are an invisible enemy on the battlefield, and they call for sophisticated countermeasures, including protection, detection, and decontamination and medical systems. CBIAC was established as the focal point for information related to chemical warfare (CW) and chemical and biological defense (CBD) science and technology.

CBIAC's multi-disciplinary technical staff offers expertise in chemistry, biology, medicine, and engineering. Together, they identify, analyze, and disseminate CW and CBD information in support of current defense research and development efforts. The CBIAC maintains a database containing more than 103,000 document citations, as well as an on-site collection of more than 38,000 books, technical reports, videotapes, and magnetic diskettes from domestic and foreign sources

For analytical efforts beyond the basic CBIAC products and services, Technical Area Tasks (TAT) provide valuable research and development (R&D) support to the CW/CBD scientific community. TATs generate new knowledge and expand access to the CBIAC information base, provide a means to develop specialized information collections, improve the capabilities of U.S. military forces, and assist the acquisition community in using CW/CBD information.

TATs & Products Chemical & Biological Archival Information Management System (CBAIMS)

This DoD sponsored program will establish the first virtual repository of chemical/biological defense information. Collections spread throughout the country are often poorly documented and not readily accessible. We are carefully analyzing and cataloging collections, and are making them available to the CBD community. CBAIMS will have long lasting, positive effects on delivery of mission critical information and will provide one-stop access for CBD information for the first time.

Wide Area Decontamination: CB Decontamination Technologies, Equipment & Projects

This report provides a worldwide Chemical and Biological Wide Area Decontamination market survey and an assessment of existing decontamination equipment and technologies. The assessment includes the possible benefits of combining equipment and technologies identified to create hardware solutions for immediate implementation.

Tactical NBC Information Tool

This CD-ROM provides a complete set of NBC planning tools for tactical headquarters. Topics include agents, staff responsibility, assessment tool, defense units, equipment, operations orders, threat, and Army Universal Task List (AUTL). This tool simplifies

NBC defense planning and training. Included are tools and manuals on NBC decontamination, protection, contamination avoidance, behavior of agents, and medical management of NBC casualties.

Technical Approach Options for Indoor Air Modeling

This publication assesses 23 mathematical models describing airflow, heat distribution, and contaminant transport within buildings. Each model employed one of four approaches: well-mixed volume, computational fluid dynamics, plume dispersion, or empirical. Four models recommended for further examination were U.S. Environmental Protection Agency's (EPA) RISK model, Battelle Memorial Institute's Emissions Transport Model, Gradient Corporation's Plume Dispersion Model, and the Subway Environmental Simulation developed by Parsons Brinkerhoff for the Department of Transportation (DOT). Descriptions and validation studies for these models are presented.

Commander in Chief (CINC) NBC Information Tool

This CD-ROM provides NBC planning tools for high-level headquarters. Topics include agent characteristics, staff responsibility, assessment tool, defense units, equipment, Operational Plan (OPLAN), threat, and Universal Joint Task List (UJTL). This tool simplifies headquarters NBC defense planning.

Disaster Preparedness Operation Specialist (DPO) Computer Aided Instruction

This two CD-ROM set provides a multimedia supplement to the U.S. Navy's DPO Specialist course. Topics include computer indicators, CBR protective equipment, self and buddy aid, chemical detection, and chemical decontamination. The presentations contain text, graphics, and video clips supporting each topic.

Assessment of Chemical Detection Equipment for Hazardous Material (HAZMAT) Responders

This publication provides an assessment of detection equipment for HAZMAT responders in a terrorist incident involving chemical warfare agents. A representative locale was selected, and the incident response system analyzed. Commercial and military chemical warfare agent detection equipment is identified and analyzed. This analysis yielded recommendations for detection equipment for emergency responders.

State-of-the-Art Report on the Australia Group Chemicals

This publication provides a quick reference to information on the 54 chemicals listed by the Australia Group. This report provides chemical name, formula, structure, synonyms, trade names, Chemical Abstract Service number, CWC schedule number, civilian uses, and the chemical warfare agents associated with the chemical.

For a listing of products, prices, availability, and distribution limitations, contact CBIAC or visit our Web site at <http://www.cbiac.apgea.army.mil/>

In the near future, CBIAC's URL will change to <http://iac.dtic.mil/cbiac>

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