

July 2016

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PERSONAL DATA

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EDUCATION

1972	Bachelor of Arts - Chemistry University of North Carolina at Chapel Hill
1976	Master of Science in Public Health - Environmental Protection University of North Carolina at Chapel Hill School of Public Health
1989	Doctor of Public Health - Biohazard Science University of North Carolina at Chapel Hill School of Public Health Dissertation: Oral Bacterial as Biological Indicators for Dental Asepsis

**PROFESSIONAL
EXPERIENCE**

2008 -- Present	Biological Safety Specialist Biological Safety Division Duke University Medical Center Durham, NC
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Responsibilities and Major Accomplishments

Provide chemical and biological safety expertise and management of a comprehensive laboratory safety program at a major university and biomedical research center.

February 2007 -- March 2008

Interim Director
Department of Environment, Health and Safety
University of North Carolina at Chapel Hill
Chapel Hill

Responsibilities and Major Accomplishments

- Oversee an EHS staff of 48 to deliver comprehensive environment, health and safety services for a major research university with 27,700 students, 3,200 faculty, and 8,000 employees.
- EHS programs include Environmental Affairs, Hazardous Waste, Industrial Hygiene, Biological Safety, Laboratory Safety, Indoor Air Quality, Radiation Safety, Work Place Safety, Fire Safety, Ergonomics, Workers Compensation, and Occupational Health Clinic.
- Served as responsible official for select agent program on campus
- Led campus effort for compliance with Homeland Security Chemical Facility Anti-Terrorism Standards. An on-line reporting mechanism for a campus wide chemical survey was developed. Campus wide communications were sent to all labs and shops possessing chemicals with the goal of 100% compliance.
- Led university planning efforts for pandemic influenza preparedness. Developed presented a table top exercise for chancellor and vice-chancellors.
- Provided leadership to resolve lead in drinking water in newly constructed buildings that involved a campus wide team effort including EHS, facilities services, facilities planning and construction. university counsel, university administration, and university relations. Prepared communications informing building occupants and the entire campus of the risks and actions taken for resolution. Responded to news media requests for information. Led “town meetings” with building occupants.
- Provided leadership for launching the smoke free policy on campus. Conducted meetings with student groups, developed campus-wide communications, and responded to news media requests.
- Participated in university emergency warning committee efforts to develop an array of communication means for various types of emergencies. Participated in the review and approval of the Emergency Plan for the university.
- Planned in-service training for a department wide retreat.
- Provided supervision for EHS section managers and assisted managers in setting and meeting goals.

1978 - 2008

Biological Safety and Industrial Hygiene Manager
Department of Environment, Health and Safety
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina

Responsibilities and Major Accomplishments

- Managed staff of 9 industrial hygienists and biological safety professionals. Programs include chemical safety, biological safety, asbestos, indoor air quality, laboratory safety, evaluation and control of occupational exposures to hazardous agents, respiratory protection, lead-based paint, emergency response, laboratory hood testing, certification of biological safety cabinets, and hearing conservation.
- Managed comprehensive biological safety program including development of a biological safety manual, providing biological safety training programs for BSL-2 and 3 lab personnel, biological safety inspection programs, BSL-3 design guidelines, and the select agent program.
- Developed indoor air quality (IAQ) policy and procedures. Includes IAQ response, investigation procedures, reports, communication with building occupants, establishment of a university building review committee for indoor air quality to recommend IAQ capital improvements to university administration, and procedures for accommodating highly sensitive individuals..
- Conducted national surveys of all Institutional Biosafety Committees in 2002 to assist IBCs in fulfillment of their NIH responsibilities. The survey was repeated again in 2007 and the results presented at the 2007 American Biological Safety Association annual conference.
- Developed laboratory hood policy.
- Developed respiratory protection policy.
- Developed and taught 2-day course “Biological Safety for Safety and Health Professionals twice per year. Co-taught one day pre-conference PDC “Fundamentals of Biosafety” for American Biological Safety Association and American Industrial Hygiene Association.
- Co-taught, “Effective Biosafety Committees: Expectations and Examples”, pre-conference PDC at 2005 Biological Safety Conference, Vancouver, BC.
- Developed and taught with co-teachers 2-day course on laboratory safety twice per year
- Wrote and carried out a Confirmatory Sampling Workplan to determine if there had been any release from Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) in application for the hazardous waste permit part B permit. The plan and final report was approved by the EPA.

1976 - 1978

Biological Safety Officer
 Health and Safety Office
 University of North Carolina at Chapel Hill
 Chapel Hill, North Carolina

Responsibilities and Major Accomplishments

Developed the biological safety program including inspection of laboratories handling infectious agents, training of laboratory staff, certification of biological safety cabinets, serving on the Institutional Biosafety Committee, investigation of laboratory accidents, and development of policies and procedures for laboratories handling infectious agents.

1972 - 1974

Sanitarian
New Hanover County Health Dept.
Wilmington, North Carolina

Responsibilities and Major Accomplishments

Enforced environmental health and sanitation state regulations for restaurants, meat markets, nursing homes, hospitals, wells, and septic tanks.

CERTIFICATIONS

Certified Industrial Hygienist (CIH) (December 1990) (No. 4904)
Certified Biological Safety Professional (CBSP)(1998)(No. 98-023)
Certified Chemical Hygiene Officer (CCHO) - 2016

AWARDS

2006 C. Knox Massey Distinguished Service Award "in recognition of unusual, meritorious, or superior service to the University". The Massey award is the highest award given to University of North Carolina at Chapel Hill employees.

2014 Everette Hanel Jr. Presential Award - Given to a current ABSA member for outstanding contributions to the American Biological Safety Association by promoting the field of biological safety and fostering, by example, the high professional standards of the Association's membership.

PRESENTATIONS

"Survey of Class II Biological Safety Cabinet Use and Performance on a University Campus". Raymond W. Hackney, Jr. and Donald G. Willhoit. 20th Biological Safety Conference, San Antonio, Texas. 1977

"Effectiveness of Formaldehyde Gas Decontamination at Varying Relative Humidities and Contact Times". John L. Harb and Raymond W. Hackney, Jr. 21st Biological Safety Conference, Phoenix, Arizona. 1978.

"Report of a Laboratory-Acquired *Neisseria gonorrhoeae* Infection". Raymond W. Hackney, William A. Rutala, Charlotte A. Thomann and Myron S. Cohen. 28th Biological Safety Conference, La Jolla, California. 1985.

"Certification of Laminar Flow Cabinets". Raymond W. Hackney, Jr. Biosafety Conference for Industrial Hygienists. Sponsored by School of Public Health, UNC-Chapel Hill, American Industrial Hygiene Association, American Biological Safety Association, and NIOSH. Chapel Hill, NC. 1988 and 1989

"Alpha-Hemolytic Streptococci as Biological Indicators for Dental Asepsis." Raymond W. Hackney, Jr., Jerry J. Tulis, James J. Crawford. 32nd Biological Safety Conference, New Orleans, Louisiana. 1989.

"Oral Bacteria as Biological Indicators to Evaluate Operatory Asepsis".
Raymond W. Hackney, Jr., James J. Crawford, Jerry J. Tulis.
American Association of Dental Schools meeting, Cincinnati, Ohio.
1990.

"OSHA's Bloodborne Pathogens Standard". North Carolina Colleges
and Universities Association. Wilmington, NC, April 23-24, 1992.

"OSHA's Bloodborne Pathogens: Its Impact on College Health". N.C.
Council of Campus Health Professionals. Winston-Salem, NC.
October 14, 1993.

"Biological Hazards in the Laboratory". American Society of Safety
Engineers, NC Chapter. Southern Pines, NC. March 20, 1996.

"Laboratory Ventilation". NC Office of State Personnel, Safety and
Health Director Training, Raleigh, NC. March 13-14, 1997.

"Occupational Transmission of Hepatitis C Virus". Carolinas
Biological Safety Association. Research Triangle Park. April 12,
2000.

"Occupationally-Acquired Infectious Diseases – Rare But Significant
Occurrences". Carolinas Occupational and Environmental Medicine
Association Annual Symposium, Asheville, NC, September 7-9, 2000.

"Survey of Institutional Biosafety Committees". NIH sponsored
conference: "The Future Face of Institutional Biosafety Committees..",
San Diego, California, February 20-22, 2003.

"SARS Outbreak on a University Campus". 46th Biological Safety
Conference, American Biological Safety Association, Philadelphia, PA.
October 14, 2003.

"Biosafety Today: IBCs, BSCs, and BSLs". CSHEMA-PRIZIM
Regional EH&S Seminar. Hosted by University of North Carolina at
Chapel Hill, March 22, 2005.

"Survey of Institutional Biosafety Committees – 2007" 50th Biological
Safety Conference, American Biological Safety Association, Nashville,
TN. October 8, 2007.

"Water Quality Issues in Newly Constructed Buildings", Campus
Safety Health and Environmental Management Association, Annual
Conference, St. Louis, MO, July 2008.

"Current Trends in Institutional Biosafety Committee Practices",
Theodore Myatt, Raymond W. Hackney, Jr., Kathleen Gilbert, Rebecca
Caruso, and Susanne Simon (Poster Presentation)

Adjunct Lecturer. University of North Carolina, School of Public
Health, Department of Environmental Sciences and Engineering.
Presented lectures on OSHA's bloodborne pathogens, tuberculosis, and
biological hazards in industrial hygiene classes. 1993 to present.

PUBLICATIONS

"Inhalation Anesthetic Toxicity: Controlling Occupational Exposure in the Clinical Environment". E.A. Norfleet, R.W. Hackney, C.K. Waterson. In D. Huisingsh and S.J. Miller (eds.). The North Carolina Health Care Providers Compendium for the Management of Toxic and Hazardous Substances. North Carolina State University, Raleigh, NC. 1987.

"Chemical and Biological Hazards", Module 11 in *Medical-Surgical Nursing Review*. Nurse refresher correspondence course. 1995.

"Using a Biological Indicator to Detect Potential Sources of Cross-Contamination in the Dental Operator". Raymond W. Hackney, Jr., James J. Crawford, Jerry J. Tulis, *Journal of American Dental Association*. Vol. 129, November 1998, pp 1567-1577.

"Biological Safety Cabinets" Chapter in *Handbook of Chemical Health and Safety*, American Chemical Society. 2001.

"Current Trends in Institutional Biosafety Committee Practices". Raymond W. Hackney, Jr., Theodore Myatt, Kathleen Gilbert, Rebecca Caruso, and Susanne Simon. *Applied Biosafety*, Vol. 17, No 1, 2012.

Review editor for *Applied Biosafety Journal*, American Biological Safety Association, 2005 – present.

Serve on Editorial Board of *Applied Biosafety*, Journal of the American Biological Safety Association, 2005 – present.

COURSES TAUGHT

"Biosafety for Health and Safety Professionals", Winter and Summer Institutes for the NC Occupational Safety and Health Education and Research Center, 2001-present.

"Laboratory Safety". Winter and Summer Institutes for the NC Occupational Safety and Health Education and Research Center, 2001-present.

"Fundamentals of Biosafety", co-taught pre-conference one-day professional development course at annual conferences for American Biological Safety Association and American Industrial Hygiene Association, 2005 to 2012.

COMMITTEES

Infection Control Committee, UNC Health Care, 1996-2008.

Biological Safety Cabinets Advisory Committee, North Carolina Department of Administration, Division of Purchase and Contract. 1983-1988.

Centers for Disease Control and Prevention (CDC). External Advisory Committee. "Review of Biosafety Issues Surrounding the Sabia Virus

Laboratory Infection”, Yale Arbovirus Research Unit, Yale University.
1994.

American Biological Safety Association Credentialing Maintenance
Committee 2004 – present, chairman 2006-2008.

American Biological Safety Association, Team leader for Defining the
Profession team, 2009-present

**PROFESSIONAL
ORGANIZATIONS**

American Biological Safety Association
American Academy of Industrial Hygiene