

CURRICULUM VITAE

WILLIAM ANTHONY RUTALA

Personal Information:

Work Address	130 Mason Farm Road, Bioinformatics UNC School of Medicine Division of Infectious Diseases Chapel Hill, NC 27599-7030
Home Address	100 Sierra Drive Chapel Hill, N.C. 27514
Phone	919-967-5570 (home) 984-974-7630 (work)
Place of Birth	Bridgeton, New Jersey
Married	Donna Renfrow Rutala
Children	Melissa Ashley Rutala February 7, 1978 Meredith Ann Rutala October 1, 1981

Education:

1966-1970	Bachelor of Science Rutgers University New Brunswick, New Jersey Major: Science
1970-1972	Master of Science University of Tennessee Knoxville, Tennessee Major: Microbiology
1975-1977	Master of Public Health School of Public Health University of North Carolina Chapel Hill, North Carolina Major: Public Health
1977-1979	Doctor of Philosophy School of Public Health University of North Carolina Chapel Hill, North Carolina Major: Microbiology

Military Education:

1972	Officers' Basic Course, Army Medical Department
1979	Nuclear, Biological, Chemical Warfare Course
1986-1987	Officers' Advance Course, Army Medical Department
1987-1990	Command and General Staff College Course

Employment History:

5/14-Present	Professor Division of Infectious Diseases Department of Medicine UNC School of Medicine Chapel Hill, North Carolina
6/83-Present	Director, Statewide Program for Infection Control and Epidemiology (SPICE)
11/93-4/14	Professor (with tenure) Division of Infectious Diseases Department of Medicine UNC School of Medicine Chapel Hill, North Carolina
5/95-4/17	Director, Hospital Epidemiology, Occupational Health and Safety Program University of North Carolina Health Care (formerly UNC Hospitals) Chapel Hill, North Carolina
8/92-4/17	Director, Hospital Epidemiology University of North Carolina Health Care Chapel Hill, North Carolina
6/83-6/90, 7/91-4/17	Director, Statewide Program for Infection Control and Epidemiology (SPICE)(co- founder); SPICE provides infection prevention consultation to all health care facilities in NC UNC School of Medicine Chapel Hill, North Carolina
7/87-6/06	Hazardous Waste Manager University of North Carolina Hospitals Chapel Hill, North Carolina

9/94	Colonel US Army Reserve (Retired, 22 years) St. Louis, Missouri
8/92-5/95	Director, Department of Hospital Epidemiology and Employee Health University of North Carolina Hospitals Chapel Hill, North Carolina
8/79-5/95	Hospital Environmentalist University of North Carolina Hospitals Chapel Hill, North Carolina
6/83-8/92	Administrative Director, Department of Hospital Epidemiology University of North Carolina Hospitals (formerly North Carolina Memorial Hospital) Chapel Hill, North Carolina
11/84-10/93	Research Associate Professor Division of Infectious Diseases Department of Medicine UNC School of Medicine Chapel Hill, North Carolina
9/75-9/94	Chief, Clinical Laboratory Officer Colonel (8/94), Medical Service Corps 3274th US Army Reserve Hospital Durham, North Carolina
8/90-4/91	Microbiologist Walter Reed Army Medical Center (Activated Reservist for Persian Gulf War) Washington, DC
8/79-10/84	Research Assistant Professor Division of Infectious Diseases Department of Medicine UNC School of Medicine Chapel Hill, North Carolina
7/81-6/83	Co-Director, Statewide Infection Control and Tuberculosis Program UNC School of Medicine Chapel Hill, North Carolina
7/80-6/81	Assistant Director, Statewide Infection Control and Tuberculosis Program UNC School of Medicine Chapel Hill, North Carolina

5/76-8/79	Research Assistant Department of Environmental Sciences and Engineering University of North Carolina Chapel Hill, North Carolina
8/75-5/76	Teaching Assistant Department of Parasitology and Laboratory Practice University of North Carolina Chapel Hill, North Carolina
11/72-8/75	Chief, Virology Service Captain, Medical Service Corps Army Medical Laboratory Fort Sam Houston, Texas
3/71-8/72	Research Assistant Department of Microbiology University of Tennessee Knoxville, Tennessee

Certification:

1984	Infection Control
1994	Infection Control
1999	Infection Control
2004	Infection Control
2009	Infection Control
2014	Infection Control

Professional Societies:

American Society for Microbiology (ASM)
Society of Hospital Epidemiology
of America (SHEA)
Association for Professionals in
Infection Control and Epidemiology
(APIC), North Carolina Chapter
Association for Professionals in
Infection Control and
Epidemiology, National

Professional Service:**Consultant**

1985, 1988	Infectious Waste Management Working Group, US Environmental Protection Agency
1987	Expert Panel, Certification Board of Infection Control Task Analysis (APIC)
1988	Working Group on Infectious Waste, American Hospital Association (AHA)
1988	Working Group on Biomedical Waste Management, US Congressional Office of Technology Assessment
1989	External Peer Review Panel for Report to Congress (The Public Health Implications of Medical Waste) Agency for Toxic Substances and Disease Registry, US Department of Health and Human Services
1991-Present	FIFRA Scientific Advisory Panel Subpanel, Antimicrobial Research Strategy for Disinfectants, US Environmental Protection Agency
1992	Working Group on Regulated Medical Waste, Association of Operating Room Nurses
1994-1996	Federal Trade Commission Washington, DC
1995-2000	General Hospital and Personal Use Devices Panel (Consultant 1995-1997, Member 1997-2000) Center for Devices and Radiological Health Food and Drug Administration (FDA) Rockville, MD
1997	Medical/Engineering Approaches for Reducing Nosocomial Infection National Research Council National Academy of Science Washington, DC

1998	Hospital Infection Program Center for Infectious Disease Centers for Disease Control and Prevention
1999-2003	Healthcare Infection Control Practices Advisory Committee (HICPAC) Centers for Disease Control and Prevention Atlanta, GA
1999	Global Consensus Conference on Issues Related to Antimicrobial Resistance APIC, CHICA Toronto, Canada
2001-2003	Infection Control in Dentistry, 2003 Centers for Disease Control and Prevention Atlanta, GA
2001	Consensus Panel Meeting on Reprocessing Flexible Gastrointestinal Endoscopes (JCAHO, SGNA, AORN, APIC, SHEA, ASGE, ACG, SAGES, AGA, FASA, ASCRS) Atlanta, GA
2004-2006	NC Communicable Disease Surveillance Advisory Committee, Raleigh, NC
2004-2005	Special Emphasis Panel Infectious Diseases and Microbiology Center for Scientific Review National Institutes of Health Bethesda, MD
2015	ASGE Duodenoscope Infection Control Summit, National Harbor, MD
2015	FDA Workshop on Duodenoscope Reprocessing, Gastroenterology and Urology Devices Panel of the Medical Devices Advisory Committee. Silver Spring, MD

Editorial Boards

1982-2000	American Journal of Infection Control
1984-Present	Infection Control and Hospital Epidemiology
1998-1999	Journal of Infection Control (Asia Pacific Edition)
2017-Present	Journal of Hospital Infection, Section Editor
1994-2006	Occupational Medicine, Infection Control and Hospital Epidemiology
1997-2006	Sterilization and Disinfection, Infection Control and Hospital Epidemiology

Editor (with DJ Weber)

2001-2002	Seminars in Infection Control
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Reviewer

Annals of Internal Medicine
 Journal of American Medical Association (JAMA)
 Journal of Applied Microbiology
 Gastrointestinal Endoscopy
 Endoscopy
 Clinical Infectious Diseases
 Journal of Infectious Diseases

Grants Funded:

1. Area Health Education Centers Grant (North Carolina), 1979-present, Program Director.
 Purpose: To provide statewide consultation in the area of hospital infection control, to train infection control practitioners and assist in outbreak evaluations.
2. North Carolina Division of Epidemiology, Department of Environment, Health and Natural Resources Grant, 1980-present, Program Director.
 Purpose: To establish a statewide program for the management of tuberculosis in the community hospital and the design of infection control programs at community hospitals and other health care facilities.
3. U.S. Environmental Protection Agency Grant, 1983-1989, Principal Investigator.
 Purpose: To improve the Association of Official Analytical Chemists (AOAC) tests for evaluating the germicidal activity of hospital disinfectants so the tests are concise, unambiguous and there is little inter-laboratory variation in the methods employed or results obtained.
4. Arvey Corporation (Cedar Grove, NJ), 1983, Principal Investigator.
 Purpose: To perform a comparative evaluation of biological and chemical indicators used for monitoring the efficacy of steam sterilization.

5. Lilly Corporation (Indianapolis, Indiana), 1986, Co-investigator.
Purpose: To determine the clinical significance of *Bacillus* species isolated from blood cultures. The susceptibilities of over 100 strains of Bacillus to a battery of antibiotics were also evaluated.
6. Huntington Laboratories (Huntington, Indiana), 1986, Project Director.
Purpose: An unrestricted gift to support disinfection research.
7. Minnesota Mining and Manufacturing, 3M (St. Paul, Minnesota), 1989.
Purpose: An unrestricted gift to support basic research.
8. Minnesota Mining and Manufacturing, 3M (St. Paul, Minnesota), 1991.
Purpose: Evaluate a rapid readout biological indicator for determining the efficacy of a flash sterilization cycle.
9. Centers for Disease Control and Prevention (Atlanta, Georgia) via contract with Analytical Sciences Inc. (Durham, NC), 1994. Purpose: Evaluate the sensitivity and specificity of nosocomial infection case finding in NNIS hospitals.
10. American Sterilizer Company (Erie, PA), 1994. Purpose: Evaluate the sterilization efficacy of low temperature sterilization alternatives (e.g., peracetic acid, vaporized hydrogen peroxide).
11. Minnesota Mining and Manufacturing (St. Paul, Minnesota), 1994. Purpose: Evaluate a rapid readout biological indicator for monitoring sterilization.
12. Clorox (Pleasanton, CA), 1997. Purpose: An unrestricted gift to support disinfection research.
13. Clorox (Pleasanton, CA), 1998. Purpose: An unrestricted gift to support disinfection research.
14. Clorox (Pleasanton, CA), 1999. Purpose: An unrestricted gift to support disinfection research.
15. Clorox (Pleasanton, CA), 2003. Purpose: An unrestricted gift to support disinfection research.
16. Reckitt-Benckiser (NJ), 2004. Purpose: An unrestricted gift to support disinfection research.
17. Centers for Disease Control and Prevention. Purpose: Investigate the role of the environment in the transmission of SARS coronavirus. Principal Investigators: MS Sobsey, RS Baric, WA Rutala, DJ Weber.
18. Clorox (Pleasanton, CA), 2006. Purpose: An unrestricted gift to support disinfection research.
19. Clorox (Pleasanton, CA), 2007. Purpose: An unrestricted gift to support disinfection research.
20. Clorox (Pleasanton, CA), 2008. Purpose: An unrestricted gift to support disinfection research.
21. Centers for Disease Control and Prevention (via NC Department of Health and Human Services). Purpose: Validate the accuracy of healthcare-associated infection data reported to the National Healthcare Safety Network. 1/2010-12/2011
22. Clorox (Pleasanton, CA), 2009. Purpose: An unrestricted gift to support disinfection research.
23. Clorox (Pleasanton, CA), 2010. Purpose: An unrestricted gift to support disinfection research.
24. Clorox (Pleasanton, CA), 2010. Purpose: An unrestricted gift to support disinfection research.

25. Centers for Disease Control and Prevention. A Four-Arm Prospective, Multicenter Study to Assess the Clinical Efficacy, Effectiveness, and Feasibility of Enhanced Environmental Disinfection. 4/2011-3/2016.
26. Clorox (Pleasanton, CA), 2012. Purpose: An unrestricted gift to support disinfection research
27. North Carolina Department of Health and Human Services, Division of Health Service Regulation. Purpose: Enhanced Education of Infection Prevention in Nursing Homes. 7/1/2012-6/31/2014
28. Clorox (Pleasanton, CA), 2013. Purpose: An unrestricted gift to support disinfection research
29. Clorox (Pleasanton, CA), 2015. Purpose: An unrestricted gift to support disinfection research
30. Centers for Disease Control and Prevention and North Carolina Department of Health and Human Services. Domestic Ebola supplement: Infection Control Assessment and Response (ICAR) Program. \$1,194,568 from April 1, 2016-March 31, 2018. Anticipate an additional \$289,805 from April 1, 2018-October 31, 2018.
31. Centers for Disease Control and Prevention/ Duke-UNC Epicenter Program for Prevention of Healthcare-associated Infections. \$265,000. 4/2016-3/2020

Committees

Hospitals/University

8/79-04/2018	Infection Control Committee, Member
7/84-04/2018	Health and Safety Committee, Member
7/82-6/89	Laboratory and Environmental Safety Subcommittee, Chair (1984-1989)
7/82-6/89	Health Care Personnel Safety Sub- Committee, Chair (1984-1989)
7/89-04/2018	Personnel and Environmental Safety Subcommittee, Chair (1989-present)
5/92-6/94	Innovative Projects Committee, Member (1992) and Chair (1993-1994)
9/97-8/98	Committee to Review Appointments and Promotions to Full Professor, UNC School of Medicine
7/96-2014	Professional Liability Advisory Committee
8/03-10/03	Chancellor's Advisory Committee on SARS

State

1982-1983	Board of Directors, North Carolina Association for Practitioners in Infection Control
1984-1985	Nominating Committee, North Carolina Association for Practitioners in Infection Control, Chair (1984), Member (1985)
1984-1989	Infectious Waste Task Force, North Carolina Solid and Hazardous Waste Management Branch
1989-1990	Medical Waste Task Force, North Carolina Hospital Association
1991-1992	Expert Panel on HIV and HBV Infected Health Care Workers, NC Department of Environment, Health and Natural Resources (NCDEHNR)
1994	Search Committee for Director, NC Division of Epidemiology, NCDEHNR
2004-04/2018	Center for Hospital Quality and Patient Safety Board of Trustees, NC Hospital Association
2008-04/2018	NC Joint Study Committee on Hospital Infection Control and Disclosure, NC

National

1984-1985	Incineration for Heat Recovery and Solid Waste Management Advisory Board, American Society for Hospital Engineering of the American Hospital Association
1984-1986	Chair (1986), Guidelines Committee, National Association for Practitioners in Infection Control, Member (1984), Co-Chair (1985), (conceived need and developed mission statement and procedure for APIC Guidelines)
1985-1986	Association of Operating Room Nurses (AORN) Recommended Practices Subcommittee
1984-1987	AOAC Disinfectant Test Method Update Task Force, Member

1988-1997	Chair (1991-1995), Subcommittee on Sterilization, Disinfection and Antisepsis, Committee on Laboratory Practices for Microbiology, Public and Scientific Affairs Board (PSAB), American Society for Microbiology (ASM), Member (1988-1997)
1989	Ad Hoc Committee on Medical Waste and Hazardous Materials, American Hospital Association, Member
1990-1991	Medical Waste Management Position Paper Task Force, SHEA
1993	Chair, International Symposium on Chemical Germicides in Health Care, APIC (700 delegates)
1994	American Society for Gastrointestinal Endoscopy Committee on Disinfection, Member (representing APIC)
1995-1996	Chair-Elect of Division L (Nosocomial Infections, 900 members), ASM
1996-1997	Chair, Division L (Nosocomial Infections), ASM
1996-1997	Chair, International Symposium on Sterilization, Disinfection and Antisepsis in Health Care, APIC (750 delegates)
1999-2000	Chair, International Symposium on Sterilization, Disinfection and Antisepsis in Health Care, APIC
2002-2003	Chair, International Symposium on Sterilization, Disinfection and Antisepsis in Health Care, APIC
2005-2006	Chair, International Symposium on Sterilization, Disinfection and Antisepsis In Health Care, APIC
2008	Member, Blue Ribbon Panel for Issues of Clinical Laboratory Safety, Centers for Disease Control and Prevention
2009	Chair, International Symposium on Sterilization, Disinfection and Antisepsis in Health Care, APIC
2008-2010	Member, Guidelines Committee, Society of Healthcare Epidemiologists of America

2011-2012

Lead Clinical Advisor for APIC for Clean Spaces,
Healthy Patients Project**International**

2010

International Nosocomial Infection Control
Consortium
<http://www.inicc.org/english/institutional.php>**Teaching Responsibility:**

1979-Present

Lecturer, house staff/attendings on
Infection Control and Infectious
Diseases (five per year)

1979-Present

Faculty, AHEC/UNC School of
Medicine sponsored symposia
on Infection Control and Infectious Diseases

1979-Present

Master's Students and Thesis
Topics:

Gregory P. Samsa (Epidemiology of
Tuberculosis in North Carolina)
Susan M. Saviteer, M.D. (Nosocomial
Infections in the Elderly)
Robert L. Brawley, M.D. (Multiple
Nosocomial Infections)
Brenda Gant (Changes in the
Etiologic Agents of Nosocomial
Infections)
Robert L. Odette (Management of
Infectious Waste in United
States Hospitals)
Hal Martin, M.D. (Epidemiology
of Atypical Mycobacterial
Infections in North Carolina)
Stuart C. Cooper, M.D. (Pediatric
Tuberculosis in North Carolina)
Elaine Rogers (Quantitative
Carrier Test for Evaluating the
Bactericidal Activity of
Disinfectants)
Emily E. Sickbert-Bennett (Efficacy of Hand
Hygiene Products)
Jeffrey E. Peacock (Efficacy of Germicides
Against
Adenovirus)

1980-Present

Course Director and Faculty,
"Clinical Surveillance of
Nosocomial Infections" and "ICP
as an Environmentalist",

	School of Medicine, UNC at Chapel Hill
1985-2003	Lecturer, Epidemiology 218 "Introduction to Methods in Infectious Disease Epidemiology", Department of Epidemiology, School of Public Health, UNC at Chapel Hill
1987	Course Director, "Hospital Infections in 1987 and Beyond: New Issues, Problems and Strategies", School of Medicine, UNC at Chapel Hill
1989	Course Director and Faculty, "Certification in Infection Control Review Course", School of Medicine, UNC at Chapel Hill
1991-Present	Course Director and Faculty, "Infection Control in Long-Term Care Facilities", School of Medicine, UNC at Chapel Hill
1996	Course Director and Faculty "Medical Waste Management", School of Medicine, UNC at Chapel Hill
1998 - Present	Course Director and Faculty "Infection Control in Home Health", School of Medicine, UNC at Chapel Hill

Scientific Publications:

Refereed Journals

1. Girardi AJ, P Reppucci, P Dierlam, W Rutala and JH Coggin. 1973. Prevention of simian virus 40 tumors by hamster fetal tissue: Influence of parity status of donor females on immunogenicity of fetal tissue and on immune cell cytotoxicity. Proc. Natl. Acad. Sci. USA 70:183-186.
2. Rutala WA, DF Shelton and D Arbiter. 1977. Comparative sensitivities of viruses to cell cultures and transport media. Am. J. Clin. Path. 67:397-400.
3. Rutala WA, DF Shelton and D Arbiter. 1977. Twenty-five years of diagnostic virology in a reference laboratory. Military Medicine. 142:935-937.
4. Sobsey MD, JS Glass, RJ Carrick, RR Jacobs and WA Rutala. 1980. Evaluation of the tentative standard method for enteric virus concentration from large volumes of tapwater. J. Am. Water Works Assoc. 72:292-299.

5. Sobsey MD, JS Glass, RR Jacobs and WA Rutala. 1980. Modifications of the tentative standard method for improved virus recovery efficiency. *J. Am. Water Works Assoc.* 72:350-355.
6. Rutala WA, VA Kennedy, HB Loflin and FA Sarubbi. 1981. *Serratia marcescens* nosocomial infections of the urinary tract associated with urine measuring containers and urinometers. *Am. J. Med.* 70:659-663.
7. Sarubbi FA Jr., HB Kopf, MB Wilson, MR McGinnis and WA Rutala. 1982. Increased recovery of *Aspergillus flavus* from respiratory specimens during hospital construction. *Am. Review Respir. Dis.* 125:33-38.
8. Rutala WA, MM Stiegel and FA Sarubbi, Jr. 1982. Decontamination of laboratory microbiological wastes by steam sterilization. *Appl. Environ. Microbiol.* 43:1311-1316.
9. Votra EM, WA Rutala and FA Sarubbi, Jr. 1983. Recommendations for pregnant employee interaction with patients having communicable infectious diseases. *Am. J. Infect. Control.* 11:10-19.
10. Rutala WA and FA Sarubbi, Jr. 1983. Management of infectious waste from hospitals. *Infect. Control.* 4:198-204.
11. Rutala WA, BS Katz, RJ Sherertz and FA Sarubbi, Jr. 1983. Environmental study of a methicillin-resistant *Staphylococcus aureus* epidemic in a burn unit. *J. Clin. Microbiol.* 18:683-688.
12. Rutala WA and FA Sarubbi, Jr. 1984. Comparative evaluation of a traditional and a "tissue technique" for determining air pressure differentials in hospital isolation rooms. *Am. J. Infect. Control* 12:96-99.
13. Rutala WA and EC Cole. 1984. Antiseptics and disinfectants: Safe and effective? *Infect. Control.* 5:215-218.
14. Rutala WA, MM Stiegel and FA Sarubbi, Jr. 1984. A potential infection hazard associated with the use of disposable saline vials. *Infect. Control.* 5:170-172.
15. Dandalides PC, WA Rutala and FA Sarubbi, Jr. 1984. Postoperative infections following cardiac surgery: Association with an environmental reservoir in a cardiothoracic intensive care unit. *Infect. Control.* 5:378-384.
16. Rutala WA. 1985. Cost effective application of the CDC guideline for handwashing and hospital environmental control. *Am. J. Infect. Control.* 13:218-224.
17. Price LE, FA Sarubbi and WA Rutala. 1985. Infection control programs in twelve North Carolina extended care facilities. *Infect. Control.* 6:437-441.
18. Weber DJ, WA Rutala, GP Samsa, J Santimaw and SM Lemon. 1985. Obesity as a predictor of poor antibody response to the hepatitis B plasma vaccine. *JAMA.* 254:3187-3189 (translated into Japanese).
19. Weber DJ, WA Rutala, S Kenyear and SM Lemon. 1986. Response to deltoid muscle injection of hepatitis B vaccine after failure to respond to gluteal injections. *JAMA.* 255:2157.
20. Rutala WA, SM Saviteer, CA Thomann and MB Wilson. 1986. Plaster-associated *Bacillus cereus* wound infection. *Orthopedics.* 9:575-577.

21. Cole EC and WA Rutala. 1986. Evaluation of asparagine in the AOAC use-dilution method. J. Assoc. Off. Anal. Chem. 69:1003-1005.
22. Dandalides PC, WA Rutala, CA Thomann and FA Sarubbi. 1986. Serious postoperative infections caused by coagulase-negative staphylococci: An epidemiological and clinical study. J. Hosp. Infect. 8:233-241.
23. Price LE, WA Rutala and GP Samsa. 1987. Tuberculosis in hospital personnel. Infect. Control. 8:97-101.
24. Rutala WA, DJ Weber and CA Thomann. 1987. Outbreak of wound infections following outpatient podiatric surgery due to contaminated bone drills. Foot Ankle. 7:350-354.
25. Cole EC, WA Rutala and GP Samsa. 1987. Standardization of bacterial numbers on penicylinders used in disinfectant testing: Interlaboratory study. J. Assoc. Off. Anal. Chem. 70:635-637.
26. Cole EC, WA Rutala and JL Carson. 1987. Evaluation of penicylinders used in disinfectant testing: Bacterial attachment and surface texture. J. Assoc. Off. Anal. Chem. 70:903-906.
27. Price LE and WA Rutala. 1987. Tuberculosis screening in long-term care facilities. Infect. Control. 8:353-356.
28. Rutala WA and EC Cole. 1987. Ineffectiveness of hospital disinfectants against bacteria: A collaborative study. Infect. Control. 8:501-506.
29. Cole EC and WA Rutala. 1988. Bacterial numbers on penicylinders used in disinfectant testing: Use of twenty-four hour adjusted broth cultures. J. Assoc. Off. Anal. Chem. 71:9-11.
30. Weber DJ, WA Rutala and C Parham. 1988. Impact and costs of varicella prevention in a university hospital. Am. J. Public Health. 78:19-23.
31. Cole EC, WA Rutala and EM Alfano. 1988. Comparison of stainless steel penicylinders used in disinfectant testing. J. Assoc. Off. Anal. Chem. 71:288-289.
32. Saviteer SM, Samsa GP and WA Rutala. 1988. Nosocomial infections in the elderly: Increased risk per hospital day. Am. J. Med. 84:661-666.
33. Weber DJ, SM Saviteer, WA Rutala and CA Thomann. 1988. *In vitro* susceptibility of *Bacillus spp* to selected antimicrobial agents. Antimicrob. Agents Chemother. 32:642-645.
34. Rutala WA, DJ Weber, CA Thomann, JF John Jr., SM Saviteer and FA Sarubbi, Jr. 1988. An outbreak of *Pseudomonas cepacia* bacteremia associated with a contaminated intra-aortic balloon pump. J. Thorac. Cardiovasc. Surg. 96:157-161.
35. Peacock JE, L Sorrell, FD Sottile, LE Price and WA Rutala. 1988. Nosocomial respiratory tract colonization and infection with aminoglycoside-resistant *Acinetobacter calcoaceticus* var. *anitratus*: Epidemiologic characteristics and clinical significance. Infect. Control Hosp. Epidemiol. 9:302-308.
36. Weber DJ and WA Rutala. *Bacillus* species. 1988. Infect. Control Hosp. Epidemiol. 9:368-373.
37. Alfano EM, EC Cole and WA Rutala. 1988. Quantitative evaluation of bacteria washed from stainless steel penicylinders during the AOAC use-dilution method. J. Assoc. Off. Anal. Chem. 71:868-871.

38. Cole EC, WA Rutala and GP Samsa. 1988. Disinfectant testing using a modified use-dilution method: Collaborative study. *J. Assoc. Off. Anal. Chem.* 71:1187-1194.
39. Weber DJ and WA Rutala. 1988. Epidemiology of nosocomial fungal infections. In McGinnis MR, editor: *Current topics in medical mycology*. Volume 2. Springer-Verlag, New York. pp. 305-337.
40. Cole EC, WA Rutala, JL Carson and EM Alfano. 1989. *Pseudomonas* pellicle in disinfectant testing: Electron microscopy, pellicle removal and effect on test results. *Appl. Environ. Microbiol.* 55:511-513.
41. Rutala WA. 1989. Draft guideline for selection and use of disinfectants. *Am. J. Infect. Control.* 17:24A-38A.
42. Rutala WA and BH Hamory. 1989. Chemical exposures in the health care setting. *Infect. Control Hosp. Epidemiol.* 10:261-266.
43. DJ Weber, Saviteer SM, WA Rutala and CA Thomann. 1989. Clinical significance of *Bacillus* species isolated from blood cultures. *South. Med. J.* 82:705-709.
44. Rutala WA, RL Odette and GP Samsa. 1989. Management of infectious waste by United States hospitals. *JAMA.* 262:1635-1640.
45. Brawley RL, DJ Weber, GP Samsa and WA Rutala. 1989. Multiple nosocomial infections: An incidence study. *Am. J. Epidemiol.* 130:769-780.
46. Weber DJ, WA Rutala, GP Samsa, FA Sarubbi and L King. 1989. Epidemiology of tuberculosis in North Carolina, 1966-1986: Analysis of demographic features, geographic variation, AIDS, migrant workers and site of infection. *South. Med. J.* 82:1204-1214.
47. Hoffmann KH, DJ Weber and WA Rutala. 1989. Pseudoepidemic of *Rhodotorula rubra* in patients undergoing fiberoptic bronchoscopy. *Infect. Control Hosp. Epidemiol.* 10:511-514.
48. Buehrer J, DJ Weber, AA Meyer, PR Becherer, WA Rutala, B Wilson, ML Smiley and GC White. 1990. Wound infection rates after invasive procedures in HIV-1 seropositive versus HIV-1 seronegative hemophiliacs. *Ann. Surg.* 211:492-498.
49. Rutala WA. 1990. APIC guideline for selection and use of disinfectants. *Am. J. Infect. Control.* 18:99-117 (translated into Spanish by the Pan American Health Organization).
50. Cole EC, WA Rutala, L Nessen, NS Wannamaker and DJ Weber. 1990. Effect of methodology, dilution, and exposure time on the tuberculocidal activity of glutaraldehyde-based disinfectants. *Appl. Environ. Microbiol.* 56:1813-1817.
51. Weber DJ, MB Wilson, WA Rutala and CA Thomann. 1990. Manual ventilation bags as a source for bacterial colonization of intubated patients. *Am. Review Resp. Dis.* 142:892-894.
52. a. Rutala WA. Disinfection in the operating room. 1990. *Today's OR Nurse* 12:30-38.
b. Rutala WA. Disinfection and flash sterilization in the operating room. 1991. *J. Ophthal. Nursing Technol.* 10:106-115.
53. Rutala DR, WA Rutala, DJ Weber and CA Thomann. 1991. Infection risks associated with spirometry. *Infect. Control Hosp. Epidemiol.* 12:89-92.

54. Hoffmann KK, DJ Weber and WA Rutala. 1991. Infection control strategies relevant to employee health. *J. Am. Assoc. Occup. Health Nurses.* 39:167-181.
55. Rutala WA, EP Clontz, DJ Weber and KK Hoffmann. 1991. Disinfection practices for endoscopes and other semicritical items. *Infect. Control Hosp. Epidemiol.* 12:282-288.
56. Weber DJ, WA Rutala and WA Orenstein. 1991. Prevention of mumps, measles and rubella among hospital personnel. *J. Pediatrics.* 119:233-236.
57. Marshburn PB, WA Rutala, NS Wannamaker and JF Hulka. 1991. Gas and steam sterilization of assembled versus disassembled laparoscopic equipment: Microbiologic studies. *J. Reprod. Med.* 36:483-487.
58. Rutala WA and DJ Weber. 1991. Infectious waste: Mismatch between science and policy. *N. Engl. J. Med.* 325:578-582.
59. Rutala WA, EC Cole, NS Wannamaker and DJ Weber. 1991. Inactivation of *Mycobacterium tuberculosis* and *Mycobacterium bovis* by 14 hospital disinfectants. *Am. J. Med.* 91(3B):267S-271S.
60. Weber DJ, PR Becherer, WA Rutala, MB Wilson, GP Samsa and GC White. 1991. Nosocomial infections rate as a function of HIV-1 status in hemophiliacs. *Am. J. Med.* 91(3B):206S-212S.
61. Weber DJ, KK Hoffmann and WA Rutala. 1991. Management of the healthcare worker infected with human immunodeficiency virus: Lessons from nosocomial transmission of hepatitis B virus. *Infect. Control Hosp. Epidemiol.* 12:625-630.
62. a. Rutala WA, CG Mayhall and the Society of Hospital Epidemiology of America. 1992. SHEA position paper: Medical waste. *Infect. Control Hosp. Epidemiol.* 13:38-48.
b. Also published in *Penn Dental J.* 1994;61:13-21.
63. Hanson LG, DJ Weber, WA Rutala and GP Samsa. 1992. Risk factors for nosocomial pneumonia in the elderly. *Am. J. Med.* 92:161-166.
64. Weber DJ, WA Rutala, GP Samsa, MB Wilson and KK Hoffmann. 1992. Relative frequency of nosocomial pathogens at a university hospital during the decade, 1980-1989. *Am. J. Infect. Control.* 20:192-197.
65. Hoffmann KK, DJ Weber, GP Samsa and WA Rutala. 1992. Transparent polyurethane film as an intravenous catheter dressing: A meta analysis of the infection risks. *JAMA.* 267:2072-2076.
66. Rutala WA and DJ Weber. 1992. Medical waste: Dissonance between science and policy. *INDA Journal Nonwoven Research.* (Adapted from *NEJM* article). 4:22-25.
67. Rutala WA, MF Gergen and DJ Weber. 1993. Inactivation of *Clostridium difficile* spores by disinfectants. *Infect. Control Hosp. Epidemiol.* 14:36-39.
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617. Knelson LP, Ramadanovic GK, Chen LF, Moehring RW, Lewis SS, Rutala WA, Weber DJ, Sexton DJ, Anderson DJ, CDC Prevention Epicenter Program. Self-monitoring of hospital room cleanliness by environmental services may not accurately measure cleanliness. ID Week. San Diego. October 2015.
618. Kanamori H, Parobek CM, Weber DJ, Rutala WA, Juliano JJ. Application of whole-genome sequencing to investigation of a prolonged outbreak caused by multidrug-resistant *Acinetobacter baumannii* at a large academic burn center. ID Week. San Diego. October 2015.
619. Chen LF, Knelson LP, Gergen-Teague M, Better MO, Nicholson B, Lewis SS, Woods CW, Rutala WA, Weber DJ, Moehring RW, Sexton DJ, Anderson DJ, CDC Prevention Epicenter Program. A prospective study of transmission of multi-drug-resistant organisms (MDRO) between environmental sites and hospitalized patients-the TransFER study. ID Week. San Diego. October 2015.
620. Anderson D, Chen LF, Weber DJ, Moehring RW, Lewis SS, Triplett P, Blocker M, Becherer P, Schwab JC, Knelson LP, Lokhnygina Y, Rutala WA, Sexton DJ, and CDC Prevention Epicenter Program. The benefits of enhanced terminal room (BETR) disinfection study: A cluster randomized, multicenter crossover study with 2x2 factorial design to evaluate the impact of enhanced terminal room disinfection on acquisition and infection caused by multidrug-resistant organisms (MDROs). ID Week. San Diego. October 2015.
621. Kanamori H, Parobek CM, Juliano JJ, van Duin D, Weber DJ, Rutala WA. Next-generation sequencing analysis of prolonged transmission caused by KPC-3-producing *Enterobacter cloacae* and *Klebsiella pneumoniae* at a large academic burn center in North Carolina. SHEA, Atlanta. May 2016.
622. Sickbert-Bennett EE, DiBiase LM, Weber DJ, Teal L, Walters E, Brooks R, Bringham J, Schultz K, Goldbach S, Rutala WA. Real-time feedback between job classes as an intervention for hand hygiene compliance. SHEA, Atlanta., May 2016
623. Casanova LM, Teal LJ, Sickbert-Bennett EE, Anderson DJ, Sexton DJ, Poland, Rutala WA, Weber DJ. Assessment of self-contamination during removal of personal protective equipment for Ebola patient care. SHEA, Atlanta. May 2016
624. DiBiase LM, Weber DJ, Miller MB, Kanamori H, Sickbert-Bennett EE, Rutala WA. Crude mortality in patients hospitalized for viral respiratory infections. SHEA, Atlanta. May 2016.
625. Nwankwo O, Weber D, DiBiase LM, Vavalle E, Rutala WA. Secondary bloodstream infections: Pathogens and Site of Primary Infection, 2010-2015. SHEA, Atlanta, May 2016
626. Kanamori H, Rutala WA, Gergen MF, Weber WA. Patient room decontamination against multidrug resistant organisms using a fixed cycle-time ultraviolet-C device and two different device locations. APIC 43rd Annual Conference, Charlotte. Am J Infect Control. 2016;44:S34
627. Walters E, Schultz K, Teal L, Sickbert-Bennett EE, Weber DJ, Teal LJ, Brooks R, Bringham J, Schultz K, Goldbach S, Rutala WA. Using process measures to improve compliance with evidence-based infection prevention activities. APIC 43rd Annual Conference, Charlotte, NC. Am J Infect Control. 2016;44:S72.
628. Walters E, Sickbert-Bennett EE, Miller MB, Weber DJ, Teal L, Rutala WA. Pseudo-outbreak of enteric adenovirus in immunocompromised pediatric patients. APIC 43rd Annual Conference. Am J Infect Control. 2016;44:S78.

629. Kanamori H, Parobek CM, Juliano JJ, Johnson JR, MD; Johnston BD, Weber DJ, Rutala WA, Anderson DJ. Whole-Genome Sequencing of Multidrug-Resistant *Escherichia coli* Isolates from Community Hospitals in North Carolina, 2010-2015. ID Week. New Orleans, LA. October 2016.
630. Anderson DJ, Warren B, Addison R, Kuinkel BT, Lokhnygina Y, Coy LR, Rudin S, Bonomo RA, David J. Weber DJ, Rutala WA, Fowler VJ and the CDC Prevention Epicenters Program. Molecular Analysis of Transmission Events in the Antimicrobial Scrub and Transmission (ASCOT) Trial. ID Week.
631. Rutala WA, Kanamori H, Gergen MF, Sickbert-Bennett EE, Knelson LP, Chen LF, Sexton DJ, Anderson DJ, Weber DJ. Microbial Load on Environmental Surfaces: The Relationship Between Reduced Environmental Contamination and Reduction of HAIs. ID Week. New Orleans, LA. October 2016.
632. Rutala WA, Kanamori H, Gergen MF, Gergen MF, Sickbert-Bennett EE, Sexton DJ, Anderson DJ, Weber DJ. Antimicrobial Activity of Continuous Light Disinfection System. ID Week New Orleans, LA. October 2016.
633. Anderson DJ, Addison R, Lokhnygina Y, Lewis SS, Moehring RW, Weber DJ, Rutala WA, Sexton DJ and the CDC Prevention Epicenters Program. The Antiseptic Scrub Contamination and Transmission (ASCOT) Trial: a 3-Arm Cluster-Randomized Controlled Crossover Trial to Determine the Impact of Antimicrobial-Impregnated Scrubs on Healthcare Worker Contamination. ID Week. New Orleans, LA. October 2016
634. Garner B, Cooper P, Sexton D, Moehring R, Anderson D, Weber D, Rutala WA. Visualization of inpatient *C. difficile* transmission events: Can pictures speak louder than words? ID Week. October 2016
635. Kanamori H, Weber DJ, Gergen MF, DiBiase LM, Vavalle E, Rutala WA. Epidemiologic characteristics of healthcare-associated outbreaks at an academic hospital, 2012-2015. SHEA, April 2017.
636. Kanamori H, Parobek CM, Juliano JJ, Johnson JR, Johnston BD, Johnson TJ, Weber DJ, Rutala WA, Anderson. Clinical correlates, resistance, and virulence genes of MDR *E. coli* from community hospitals. SHEA, April 2017.
637. Rutala WA, Kanamori H, Gergen MF, Sickbert-Bennett EE, Huslage K. Comparative Analysis of four major hospital cleaning validation methods. Portland, OR. No. EC-060. APIC 44th Annual Conference 2017.
638. Rutala WA, Kanamori H, Laux J, Gergen MF, Sickbert-Bennett EE, Sexton DJ, Anderson DJ, Weber DJ. Continuous Visible Light Disinfection against Multidrug-Resistant Organisms and *Clostridium difficile*: Efficacy Analysis Using A Statistical Model. Poster Presentation No. ADS-016. APIC 44th Annual Conference 2017.
639. Rutala WA, Kanamori H, Gergen MF, Sickbert-Bennett EE, Weber DJ. A Preliminary Study of Germicidal Efficacy against *Candida auris*. ID Week. San Diego. October 2017.
640. Rutala WA, Kanamori H, Gergen MF, Sickbert-Bennett EE, Knelson LP, Chen LF, Anderson DJ, Sexton DJ, Weber DJ, CDC Prevention Epicenters Program. Quantitative Analysis of Microbial Burden on Hospital Room Environmental Surfaces Contributing to Healthcare-Associated Infections. ID Week. San Diego. October 2017.

641. Rutala WA, Kanamori H, Gergen MF, Sickbert-Bennett EE, Anderson DJ, Sexton DJ, Weber DJ, CDC prevention Epicenters Program. Application of Dilute Hydrogen Peroxide Gas Technology for Continuous Room Decontamination of Multidrug-Resistant Organisms: Negative Results from A Preliminary Experimental Study. ID Week. San Diego. October 2017. OFID 2017:4 (Suppl 1) • S185
642. Rutala WA, Kanamori H, Gergen MF, Laux J, Sickbert-Bennett EE, Anderson DJ, Sexton DJ, Weber DJ, CDC Prevention Epicenters Program. Light Emitting Diode Disinfection as Continuous Room Surface Decontamination against Healthcare-Associated Pathogens. ID Week. San Diego. October 2017.
643. Kanamori H, Johnson TJ, Parobek CM, Juliano JJ, Johnson JR, Johnston BD, Weber DJ, Rutala WA, Anderson DJ. Comparative Phylogenomic Analysis of *Escherichia coli* ST131 Isolates and IncF-type Plasmids from North Carolina Community Hospitals and Other Regions of the United States. ID Week. San Diego. October 2017.
644. Kanamori H, Weber DJ, Gergen MF, DiBiase LM, Sickbert-Bennett EE, Rutala WA. Epidemiologic characteristics of healthcare-associated outbreaks and lessons learned from multiple outbreak investigations. ID Week, San Diego. October 2017.
645. Kanamori H, Rutala WA, Gergen MF, Sickbert-Bennett EE, Weber DJ. Germicidal activity against carbapenem/colistin resistant *Enterobacteriaceae* Using a Quantitative Carrier Test Method. ID Week. San Diego. October 2017.
646. Rutala WA, Gergen M, Sickbert-Bennett EE, Anderson DJ, Weber DJ. Sustained antimicrobial activity of a novel disinfectant against healthcare pathogens. ID Week, San Francisco. October 2018.

Presentations:

Invited United States Congressional Testimony

1. Examination of Cutbacks in Hospital Disinfectant Testing (Hearing). Testified before the United States Senate, Joint Economic Committee, Subcommittee on Investment, Jobs and Prices, Washington, DC. August 1986.
2. Requirements for Infectious Waste Regulations (Hearing). Testified before the United States House of Representatives, Committee on Energy and Commerce, Subcommittee on Transportation, Tourism and Hazardous Materials, Washington, DC. October 1987.

Invited Lectures (State, National and International Presentations)

1. Legal Aspects of Solid Wastes. Association for Practitioners in Infection Control (Annual NC Chapter Meeting) Winston-Salem, North Carolina, September 1980.
2. Disposal of Solid Wastes from Hospitals and Nosocomial *Aspergillus flavus* Pneumonia Associated with Hospital Construction. Texas Society of Infection Control Practitioners. Dallas, Texas. June 1981.

3. Lost in the Disinfectant/Antiseptic Maze. Is There a Way Out? Association for Practitioners in Infection Control (Annual NC Chapter Meeting), Asheville, North Carolina. September 1981.
4. The ICP as an Environmentalist. Association for Practitioners in Infection Control (Annual NC Chapter Meeting), Wrightsville Beach, North Carolina. September 1982.
5. Epidemiology of Tuberculosis in North Carolina. American Lung Association of North Carolina (33rd Annual Institute-Blue Ridge Assembly), Black Mountain, North Carolina, July 1995.
6. Ineffectiveness of EPA Registered Quaternary Ammonium and Phenolic Compounds Against Hospital Strains of Bacteria and *Pseudomonas aeruginosa*. 97th AOAC Annual International Meeting, Washington, DC. October 1983.
7. TB Update: Management of TB Patient in Acute Care Hospitals. American Lung Association of North Carolina, (34th Annual Institute-Blue Ridge Assembly), Black Mountain, North Carolina, July 1984.
8. Comparison of JCAH, CDC and EPA Infectious Waste Positions (panel discussion). American Society for Hospital Engineering of the American Hospital Association, Chicago, Illinois, September 1984.
9. A Focus on Research. Association for Practitioners in Infection Control (Annual NC Chapter Meeting), Charlotte, North Carolina, October 1984.
10. Problems with Sterilization of Equipment Used in the Hospital. University of Virginia's Tenth Annual Symposium for Clinicians on Hospital Infection Control, Charlottesville, Virginia, November 1984.
11. APIC's View on Managing Infectious Waste. South Carolina Department of Health and Environmental Control, Columbia, South Carolina, February 1985.
12. Infectious Waste Disposal. American Society for Hospital Engineering of the American Hospital Association, San Antonio, Texas, May 1985.
13. Cost-Effective Application of the CDC Guidelines for Handwashing and Hospital Environmental Control. 12th Annual Educational Conference of the National Association for Practitioners in Infection Control, Cincinnati, Ohio, May 1985.
14. New Requirements for Infectious Waste Disposal. APIC Houston Annual Infection Control Seminar, Houston, Texas, September 1985.
15. Hazardous Waste Management. APIC Dallas-Ft. Worth Annual Infection Control Seminar, Dallas, Texas, September 1985.
16. Hazardous Waste Disposal and Treatment Methods. American Society for Hospital Engineering of the American Hospital Association, Baltimore, MD, November 1985.
17. Epidemiology and Statistics. Review for Certification Exam in Infection Control. University of Missouri-Columbia, Columbia, Missouri, November 1985.
18. Hospital Hazardous Waste Management Workshop. American Society for Hospital Engineering of the American Hospital Association, Kauai, Hawaii, December 1985.

19. Nosocomial Infections: An Overview and Infection surveillance and reduction. Asepsis and Infection Control Seminar, Seattle, WA. March 1986.
20. Standards: Infectious Waste and Disinfection: Recommendations for Infection Control. 13th Annual Educational Conference of the National Association for Practitioners in Infection Control, Las Vegas, Nevada. May 1986.
21. Infection Control in Local Health Departments. 75th Annual Meeting of the North Carolina Public Health Association, Greensboro, NC. September 1986.
22. Infectious Waste Management. Ohio Infectious Waste Ad Hoc Advisory Committee, Columbus, OH. September 1986.
23. Disinfection and Antisepsis: Recommendations for Infection Control and Management of Infectious Waste from Hospitals. Middle Tennessee Chapter, Nashville, TN. October 1986.
24. Hospital Waste Management. Western New York Infection Control Officers 12th Annual Infection Control Symposium, Syracuse, NY. October 1986.
25. Environmental Concerns in Long-Term Care Facilities. Association for Practitioners in Infection Control (Annual NC Chapter Meeting), Raleigh, NC. October 1986.
26. Infection Control Consultation at the State Level and Current Status of the Hepatitis B Vaccine for Health Care Workers. University of Florida College of Medicine Infection Control Workshop. Gainesville, FL. November 1986.
27. Current Issues in Infection Control: Handwashing, Infectious Waste Disposal and the Role of the ICP in Antibiotic Cost Containment. University of South Florida College of Medicine. Tampa, FL. November 1986.
28. Infectious Waste. Ohio Society for Central Service Management Educational Program. Columbus, OH. November 1986.
29. Hospital Waste and the Community. A Symposium on Infectious Waste: Issues and Controversies. Chattanooga, TN. February 1987.
30. Standards: Infectious Waste and Disinfectants and Antiseptics: Recommendations for Infection Control. APIC-Southwest Missouri Chapter. Springfield, Missouri. March 1987.
31. Infectious Waste Management and Cost Effective Application of the CDC Guidelines for Prevention of Nosocomial Infections. APIC-South Carolina. Columbia, SC. March 1987.
32. Infectious Waste. Testified before New Jersey State Grand Jury, Trenton, NJ. April 1987.
33. Antiseptics and Disinfectants: Recommendations for Infection Control and Environmental Issues and Nosocomial Infections. Ark-La-Tex Chapter of APIC. Shreveport, LA. September 1987.
34. Infectious Waste Management. National APIC Regional Seminar Series. Chicago, Illinois. September 1987.
35. Infectious Waste Management. National APIC Regional Seminar Series. Phoenix, Arizona. October 1987.

36. Problems with Evaluation of Germicidal Efficacy. American Society for Microbiology Symposium on Chemical Germicides in the Health Care Field. Crystal City, Virginia. November 1987.
37. Environmental Issues: Disinfection, Waste Management, Linen Management. Conference on Body Substance Isolation/Universal Precautions. APIC of Greater Atlanta and Georgia Hospital Association Research and Education Foundation. Atlanta, Georgia. December 1987.
38. Hospital Disinfectants - 1988: Science and Politics. East Bay Infection Control Journal Club and SHEA. Oakland, California. March 1988.
39. Universal Blood and Body Fluid Precautions. Greater Sacramento Epidemiology Association. Sacramento, California. March 1988.
40. Infectious Waste: What Are the Risks? (Hearing). Testified before the Texas House of Representatives-Senate Task Force on Waste Management Policy. Austin, Texas. April 1988.
41. Infectious and Cytotoxic Drug Waste Management from Health Care Facilities. First National Symposium on Incineration of Infectious Wastes. Washington, DC. May 1988.
42. Universal Precautions. Middle Atlantic District National Executive Housekeepers Association and Virginia Chapter Association for Practitioners in Infection Control. Alexandria, VA. May 1988.
43. Infectious Waste Management. American Health Consultants. Boston, MA. July 1988.
44. Infectious Waste Management and Antiseptics/Disinfectants - "Who's Got the Best Dip?" Arkansas Hospital Association. Little Rock, AK. September 1988.
45. Hospital Infectious Waste. APIC Bluegrass and Eastern Kentucky University. Richmond, KY. October 1988.
46. Infectious Waste Management. Kentucky Infectious Waste Task Force. Frankfurt, KY. October 1988.
47. Infectious and Cytotoxic Waste: Today Regulations. Fifth Annual Central Plains Expo. Wichita, KS. October 1988.
48. Efficacy of Hospital Disinfectants. University of Virginia's Thirteenth Annual Symposium for Clinicians on Hospital Infection Control. Charlottesville, VA. November 1988.
49. Selection and Use of Hospital Disinfectants. Texas Society of Infection Control Practitioners. San Antonio, TX. November 1988.
50. Chemical Exposures in the Workplace. SHEA. Baltimore, MD. March 1989.
51. Infectious Waste Management. Washington State Hospital Association, Seattle, WA. March 1989.
52. Management of Infectious Waste. APIC-New England, Sturbridge, MA. March 1989.
53. Disinfection/Sterilization/Antisepsis. APIC, Chicago, IL. April 1989.
54. Infectious Waste Management from Health Care Facilities. American Hospital Association/Enercon Conference, Greensboro NC, April 1989.

55. Infectious Waste: What Are the Risks? Testified before the North Carolina House of Representatives Subcommittee on Health and Disease Prevention, Raleigh NC, May 1989.
56. Infectious Waste. Office Sterilization and Asepsis Procedures Research Foundation and the University of Texas Health Science Center at San Antonio, San Antonio TX, June 1989.
57. Chemical Exposures in the Health Care Setting and Infectious Waste Management. Sixth Annual Northwoods Infection Control Update, Rhinelander WI, September 1989.
58. Infectious Waste Management from Health Care Facilities (Keynote Address). Air and Waste Management Association (Midwest Section) and American Industrial Hygiene Association (Mid-America Section), Overland Park, Kansas, September 1989.
59. Infectious Waste Management in US Hospitals and Overview of Disinfectants Use. European Conference on Sterilization. St. Paul, MN. September 1989.
60. Medical Waste: Setting Priorities for the Next Decade. APIC-Virginia, Fairfax, VA, September 1989.
61. Antimicrobial Activity of Hospital Disinfectants Against Mycobacteria. Texas Branch, American Society for Microbiology, San Antonio, TX, October 1989.
62. Are Disinfectants Doing What Their Labels Claim? Harvard Medical School Symposium on Nosocomial Infectious Diseases and Hospital Epidemiology, Boston, MA, October 1989.
63. Hospital Hygiene. Pan American Health Organization of the World Health Organization and SHEA, Washington, DC, December 1989.
64. Chemical Disinfection - Updated Guidelines. APIC - Greater Baltimore Chapter and Maryland Organization of Central Services, Baltimore, MD, March 1990.
65. Infection Control in Home Care Settings. North Carolina Association for Home Care, Raleigh, NC, April 1990.
66. Protecting Patients, Employees and the Environment. NC Healthcare Risk Management Seminar, Wrightsville Beach, NC, May 1990.
67. Lost in the Disinfectant Maze? Is There a Way Out? 17th Annual Educational Conference of the National Association for Practitioners in Infection Control, Washington, DC, June 1990.
68. Disinfection Protocols and Sailing into the 90's. Community and Hospital Infection Control Association - Canada, Kingston, Ontario, Canada, June 1990.
69. Disinfection/Sterilization and Infectious Waste. Nebraska Infection Control Network, Omaha, Nebraska, June 1990.
70. Selection and Use of Disinfectants and Medical Waste. APIC Region 9 and Tri-State Chapter of National Executive Housekeepers, New Harmony, Indiana, July 1990.
71. Roundtable on Disinfectant and Sterilant Testing (Co-chair and presenter). ASM International Symposium on Chemical Germicides, Atlanta, Georgia, July 1990.
72. Infectious Waste Management. Greater St. Louis Association for Practitioners in Infection Control, St. Louis, Missouri, August 1990.

73. Sterilization, Disinfection and Infectious Waste Disposal in the Health Care Setting. APIC Bluegrass and Saint Joseph Hospital, Lexington Kentucky, September 1990.
74. Infectious Waste: North Carolina Update. APIC - North Carolina 14th Annual Educational Conference, Asheville, North Carolina, October 1990.
75. Prying Eyes: Successful Environmental Rounds. APIC - Palmetto and South Carolina Society of Infection Control Practitioners, Columbia, South Carolina, October 1990.
76. Session: Environmental Aspects of Nosocomial Infections (Co-Chair and presenter). Topic: Infectious Waste: Dissonance Between Science and Policy. 30th Interscience Conf. Antimicrobial Agents and Chemotherapy, Atlanta, Georgia, October 1990.
77. Disinfectants: Matching Products to Process and Through the Eyes of the Beholder: Infectious Waste Disposal, APIC - Middle Tennessee, Nashville, Tennessee, November 1990.
78. Hot Infection Control Issues and Disinfectants - New Guidelines and Controversies, Rocky Mountain Infection Control Association, Salt Lake City, Utah, March 1991.
79. Infectious Waste Management. Association of Operating Room Nurses (AORN), Atlanta, GA, April 1991.
80. Disinfection and Disinfection of Endoscopes and other Semicritical Items. Second National Meeting on Nosocomial Infections under auspices of the Minister of Health. Vina del Mar, Chile, August 1991.
81. Disinfectant Use in Hospitals: Problems and Concerns. California APIC Coordinating Council, Los Angeles, CA, September 1991.
82. Managing Infectious Waste and Choosing Disinfectants for Use in the OR. Fourth Annual Managing Today's OR Suite: 1991. Massachusetts General Hospital and OR Manager. Boston, MA, October 1991.
83. Disinfectants Used in Hospitals: Problems and Concerns and Disinfection Practices for Endoscopes and Other Semicritical Items. Sacred Heart-Saint Mary's Hospitals, Inc. Rhinelander, WI, October 1991.
84. Disinfection and Sterilization. Florida APIC. Orlando, Florida. November 1991.
85. Treatment and Handling of Medical Waste and New OSHA Bloodborne Pathogen Rules. NC Hospital Association. Durham, NC, February 1992.
86. OSHA's Final Rule: Occupational Exposure to Bloodborne Pathogens. North Carolina APIC. Chapel Hill, NC, March 1992.
87. Comparative Approaches and Public Health Implications of Disposal of Medical Waste and Are Current Disinfection Practices Adequate to Protect Public Health. Fifth National Forum on AIDS, Hepatitis and Other Blood-Borne Pathogens, National Foundation for Infectious Diseases. Atlanta, GA, March 1991.
88. OSHA's Final Rule: Occupational Exposure to Bloodborne Pathogens. North Carolina Hospital Association. Greensboro, NC, April 1992.

89. Selection and Use of Disinfectants and Disinfection of Patient Care Items. The University of Iowa Hospitals and Clinics and The Iowa Department of Public Health. Ames, IA, May 1992.
90. Disinfection of Health-care Equipment. Florida Consortium for Infection Control. Miami Beach, FL, May 1992.
91. Disinfection and Sterilization: What's New? 20th Annual Education Conference of the National Association for Practitioners in Infection Control, San Francisco, CA, June 1992.
92. OSHA Bloodborne Pathogens Standard. North Carolina Care Facilities Association, Greensboro, NC, July 1992.
93. Germ Warfare. APIC Indiana. Indianapolis, IN, July 1992.
94. The Grey Areas of Red Bag Waste. Vermont Hospital Association. Killington, Vermont, August 1992.
95. Disinfection of Endoscopes. 3M Infection Control Symposium. High Point, NC, October 1992.
96. Clean Up - Sterilization and Disinfection. Florida Practitioners in Infection Control. Orlando, FL, September 1992.
97. Managing Medical Waste. North Carolina APIC, Winston-Salem, NC, October 1992.
98. Infection Control Issues of the 90's and Disinfection Practices for Endoscopes and Other Semicritical Items (Keynote Address). 6th National Conference of the Australasian Infection Control Association. Gold Coast, Queensland, Australia, October 1992.
99. Disinfection Practices and Products and Sterilization-Old Techniques for New Technologies. Texas Society of Infection Control Practitioners. Austin, TX, October 1992.
100. Disinfection and Sterilization: What's New? Memphis APIC. Memphis, TN, November 1992.
101. Disinfection and Sterilization: What's New? Arkansas APIC. Little Rock, AR, December 1992.
102. Disinfectants Used in Hospitals and Disinfection Practices for Endoscopes and Other Semicritical Items. Deep South Infection Control Conference. APIC Greater Jackson. Natchez, MS, February 1993.
103. Disinfection and Sterilization: What's New? APIC New England. Sturbridge, MA, March 1993.
104. Dissecting Disinfection, CHICA-Canada. Edmonton, Alberta, Canada, April 1993.
105. Medical Waste Management and Disinfection and Sterilization: What's New? Hong Kong Hospital Authority and Hong Kong Infection Control Nurses' Association. Hong Kong, May 1993.
106. Public Health Implications of Medical Waste. Kilmer Memorial Conference. Brussels, Belgium, June 1993.
107. Controversies in Chemical Sterilizing/Disinfecting Solutions. 1993 Annual Symposium of the Office Sterilization and Asepsis Procedures Research Foundation. Chapel Hill, NC, June 1993.
108. Disinfectants and Disinfection for the Infectious Disease Practitioner. Infectious Disease Society of Tennessee. Nashville, TN, September 1993.

109. Antisepsis, Disinfection and Sterilization. APIC Palmetto, Greenville, SC, October 1993.
110. Infectious Waste Management and Selection and Use of Disinfectants. Western New York State Infection Control Officers. Buffalo, NY, October 1993.
111. Disinfection and Sterilization. Louisiana Hospital Association. Alexandria, LA, November 1993.
112. Environmental Update. Association of Operating Room Nurses. New Orleans, LA, March 1994.
113. Disinfection and Sterilization in the 90s. Wisconsin APIC, Brookfield, Wisconsin, April 1994.
114. Chemical Germicide Use in the United States: 1994 and Beyond (Keynote Address), APIC, Cincinnati, Ohio, May 1994.
115. Current and Emerging Concerns in Infection Control (Roundtable) - Preceded 3rd International Conference of the Hospital Infection Society. London, England, September 1994.
116. Lost in the Disinfectant, Antiseptic, Sterilant Maze? A Rational Approach to Solution Use! Nebraska Association of Hospitals and Health Systems. Lincoln, NE, October 1994.
117. Disinfection and Sterilization: Present and Future. Michigan Society of Infection Control. Lansing, MI, October 1994.
118. Disinfection and Sterilization: What's New? APIC North Carolina and APIC Palmetto. Charleston, SC, October 1994.
119. The Bugs Stop Here: Disinfection, Sterilization and Antisepsis. Marian Health Center. Sioux City, Iowa. January 1995.
120. Disinfection and Sterilization. 5th Annual Scientific Meeting of SHEA. San Diego, CA, April 1995.
121. Infection Control in the 90's and Disinfection, Sterilization and Antisepsis. Infection Prevention in the 21st Century Conference, Shanghai, China, April 1995.
122. Future of Low-temperature Sterilization Technology (Roundtable). Communicore, San Francisco, CA, April 1995.
123. Chemical Germicides - What's the Right Choice. 22nd Annual APIC Educational Conference and International Meeting, Las Vegas, Nevada, June 1995.
124. New Technologies in Disinfection and Sterilization in the Operating Room and Central Sterile Department and Guidelines for the Selection and Use of Disinfectants and Cost-Effective Handling of Medical Waste in Extended Care Facilities. Safety and Infection Control Consultants of America, Marlborough, MA, June 1995.
125. Fundamentals of Disinfection, Sterilization and Antisepsis. Smokey Mountain APIC. Pigeon Forge, TN, September 1995.
126. Disinfectants and Sterilants: New Methods and Products. Florida Professionals in Infection Control, Orlando, FL, September 1995.
127. Disinfection and Sterilization: What's the Right Choice. APIC-NC, Asheville, NC. October 1995.

128. Disinfection of Endoscopes. Society of Gastroenterology Nurses and Associates, Pittsburgh, PA. October 1995.
129. Disinfection and Sterilization. APIC Long Island, Long Island (Smithtown), NY. October 1995.
130. Disinfection and Sterilization: What's New. Cleveland Clinic, Cleveland, Ohio, January 1996.
131. Disinfection and Sterilization: What's New. APIC Puget Sound, Seattle, Washington, February 1996.
132. Low Temperature Sterilization Technology: A Comparative Review of Emerging Technologies and Environmental Initiatives - Part I: Action at the Local Level (What Needs To Go Into The Red Bags). AORN 43rd Annual Congress, Dallas, TX. March 1996.
133. APIC Perspective of Reuse of Medical Devices. AAMI/FDA Conference on Designing, Testing, and Labeling Reusable Medical Devices for Reprocessing in Health Care Facilities, Washington, DC. April 1996.
134. Disinfection and Sterilization. 6th Annual Scientific Meeting of SHEA. Washington, DC. April 1996.
135. Disinfection and Sterilization. Second Annual Conference on Infectious Diseases. AORN. Atlanta, GA. May 1996.
136. New Low Temperature Sterilization Technologies. 96th General Meeting of American Society for Microbiology, New Orleans, LA. May 1996.
137. Changing Practices in Sterilization and Disinfection. 23rd Annual APIC Educational Conference and International meeting, Atlanta, GA. June 1996.
138. New Technologies in Disinfection and Sterilization and Medical Waste and Glutaraldehyde and Other High-Level Disinfectants, Spanish Society of Epidemiology, Zaragoza, Spain. October 1996.
139. Sterilization and Disinfection. APIC Kentuckiana Chapter. Louisville, KY. November 1996.
140. What's New in Sterilization and Disinfection. International Association of Healthcare Central Service Material Management, Indianapolis, IN. November 1996.
141. Disinfection and Sterilization of Thermolabile Equipment and New Perspective in Sterilization of Thermosensitive and Thermoresistant Instruments and Environments and Equipments as a Source of Multiresistant Microorganisms and Criteria for Selection and Use of Disinfectants. 5th Brazilian Congress on Hospital Infection. Rio de Janeiro, Brazil, November 1996.
142. Biological and Chemical Indicator Technologies: What is the Difference Between a BI and a CI? 44th Annual Congress of the Association of Operating Room Nurses. Anaheim, CA. April 1997.
143. Disinfection and Sterilization: What's New. 7th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America. St. Louis, Missouri. April 1997.
144. Water as a Reservoir of Nosocomial Pathogens. 97th General Meeting of the American Society for Microbiology. Miami, FL. May 1997.
145. Principles of Reprocessing Endoscopes. American Society of Gastrointestinal Endoscopy/Digestive Disease Week, Washington, DC. May 1997.

146. Principles of Disinfection. International Symposium of Sterilization, Disinfection and Antisepsis. New Orleans, LA. June 1997.
147. Principles of Disinfection and High Level Disinfection for Semicritical Items and Low Temperature Sterilization Technology and Susceptibility of Antibiotic Resistant Microbes to Chemical Germicides. Singapore. September 1997.
148. Occupational Hazards of Disinfectants and Sterilants and Disinfectant Testing and Microbiologic Testing and Role of Medical Device Cleaning and Monitoring the Sterilization Process and Principles of Disinfection and Disinfection of Reusable Devices/Endoscopes. Malaysia Ministry of Health. Mulacca, Malaysia. September 1997.
149. Disinfection and Sterilization: What's New. American Society of Central Service Professionals of AHA, Nashville, TN. October 1997.
150. Disinfection and Sterilization. Third Annual Conference on Infectious Diseases. AORN. Atlanta, GA. October 1997.
151. Reprocessing Equipment for Patient Use. Central Plains Expo. Kansas Society of Central Service Professionals, Wichita, KS. October 1997.
152. Disinfection and Sterilization. APIC-North Carolina/Palmetto Chapters, Asheville, NC. November 1997.
153. Low-Temperature Sterilization Technologies. Seventh International Kilmer Memorial Conference. Phoenix, AZ. March 1998.
154. Disinfection and Sterilization and Protecting the Healthcare Worker. 45th Annual Congress of the Association of Operating Room Nurses. Orlando, FL. March 1998.
155. Disinfection and Sterilization: Meet the Consultant. Eighth Annual Scientific Meeting of the Society for Healthcare Epidemiology of America. Orlando, FL. April 1998.
156. Role of Environmental Pollution in Nosocomial Infection Transmission and Reuse of Disposable Devices and Requirements for Disinfecting Endoscopes and Low Temperature Sterilization Technologies. Second Pan American Congress of Nosocomial Infections. Mar del Plata, Argentina. April 1998.
157. Changing Practices in Disinfection and Sterilization. Rocky Mountain Infection Control Association. Salt Lake City, Utah. April 1998.
158. Infection Control Update and Disinfection and Sterilization: What's New. APIC Alaska (Midnight Sun Chapter 65). Anchorage, AK. May 1998.
159. Infection Control Update. Society of Gastroenterology Nurses and Associates, 25th Annual Course. Denver, CO. May 1998.
160. Infection Control and Epidemiology: The Basics. 1998 Annual Symposium of Office Sterilization and Asepsis Procedures. Providence, RI. June 1998.
161. Disinfection and Sterilization. Fourth Annual Conference on Infectious Diseases. AORN. Atlanta, GA. June 1998.
162. Studies on Low Temperature Sterilization Systems. Edinburgh, Scotland. September 1998.

163. Infection Control: The Role of Disinfection and Sterilization. The 4th International Conference of the Hospital Infection Society. Edinburgh, Scotland. September 1998.
164. Disinfection and Sterilization. Northern NJ APIC. Morristown, NJ. September 1998.
165. Disinfection/Sterilization of Reusable and Single Use Items. APIC Greater Jackson Chapter. Natchez, MS. October 1998.
166. Selection and Use of Disinfectants and Low Temperature Sterilization Technology. International Conference on the Control of Hospital-Acquired Infections. Lima, Peru. November 1998.
167. Cleaning and Sterilization Technology - Health Care Industry. Jet Propulsion Laboratory Workshop on Planetary Protection (Mars Project). Pasadena, CA. December 1998.
168. Studies on the Bioburden of Medical Devices and Studies on Various Hydrogen Peroxide Gas Plasma Sterilizers. International Workshop on Efficacy Testing of Cleaning, Disinfection and Sterilization. Heidelberg, Germany. March 1999
169. Inanimate Environment. Ninth Annual Scientific Meeting of the Society for Healthcare Epidemiology of America. San Francisco, CA. April 1999.
170. Changing Practices in Disinfection and Sterilization and Susceptibility of Antibiotic Resistant Microbes to Chemical Germicides. 26th Annual APIC Educational Conference and International Meeting, Baltimore, MD. June 1999.
171. Inanimate Environment. 1st International Congress of the Asia Pacific Society of Infection Control, Macau (Pre-Conference). August 1999.
172. Developing a Hospital Waste Management Program and New Methods of Sterilization – Actual Needs in the Hospital and New Low Temperature Sterilization Technology and Assessing New Sterilization Technologies. 1st International Congress of the Asia Pacific Society of Infection Control, Hong Kong. August 1999.
173. Disinfection and Sterilization. Fifth Annual Conference on Infectious Diseases. AORN. Atlanta, GA. August 1999.
174. Disinfection: What to use and when. APIC-VA. Williamsburg, VA. October 1999.
175. Newer Technologies in Disinfection and Sterilization. Ed Bixby Institute Research Medical Center. Kansas City, MO. October 1999.
176. Inanimate Environment in the Operating Room and Infection Control. Japanese Association of Operative Medicine. Osaka, Japan. October 1999.
177. Recommendation for Selection and Use of Disinfectants from the APIC Guidelines. Tokyo, Japan. October 1999.
178. Changing Practices in Disinfection and Sterilization. APIC-WV. Flatwoods, WV. November 1999.
179. Advances in Disinfection and Sterilization. X National Congress of the Spanish Society of Preventative Medicine. Gijon, Spain. November 1999.
180. New Systems for Low Temperature Sterilization in Hospitals. Atlanta, GA. March 2000.

181. New Methods in Disinfection and Sterilization. 4th Decennial International Conference on Nosocomial and Healthcare-Associated Infections. Atlanta, GA. March 2000.
182. CJD: Disinfection and Sterilization. 100th Meeting of the American Society for Microbiology. Los Angeles, CA. May 2000.
183. Waste Management: How to be Friendly to the Environment. 27th Annual Educational Conference and International Meeting. Minneapolis, MN. June 2000
184. An Overview of the Use of Chemical Germicides in Healthcare and New Technologies for Sterilization and Disinfection. APIC Postconference on Disinfection, Antisepsis and Sterilization: Practices and Challenges for the New Millennium. Minneapolis, MN. June 2000.
185. Disinfection and Sterilization. First International Meeting-Hospital Infection Control Strategies for Countries with Limited Resources. Havana, Cuba. June 2000.
186. The Role of the Environment in Nosocomial Infections. 5th National Congress on Nosocomial Infections. Mexico City, Mexico. August 2000.
187. Surface Disinfection: Should We Do It? 6th International BODE Hygiene Days. Vienna, Austria. September 2000.
188. Use of Gowns and Drapes in Health Care. International Wovens Technical Conference 2000. Dallas, Texas. September 2000.
189. Infection Control: The Role of Disinfection and Sterilization. Advances in Infection Control and Sterilization, 2000 Symposium. Adelaide, Australia, November 2000.
190. Inanimate Environment in the Operating Room and Infection Control. New Zealand Sterile Services Association. Auckland, New Zealand. November 2000.
191. New Research in Surface Disinfection. Chemical Specialties Manufacturers Association Joint Antimicrobial/Pesticide Division Program. Fort Lauderdale, Florida. December 2000.
192. Reuse of Single Use Devices: FDA Action (and Selection and Use of Disinfectants). 16th Annual Meeting of the Japanese Society of Environmental Infections. Tokyo, Japan. February 2001.
193. Use of Drapes and Gowns in Healthcare. IDEA1, The International Nonwovens Conference and Exposition. Miami, Florida. March 2001.
194. New Technologies in Low-Temperature Sterilization. Central Sterilising Club (United Kingdom). Manchester, England. May 2001.
195. Microbiologic Sampling of the Environment and Prevention of Surface Contamination. American Society for Microbiology General Meeting. Orlando, Florida. May 2001.
196. New Disinfection and Sterilization Technologies and FDA Standards on Reuse of Medical Equipment. APIC 28th Annual Educational and International Meeting, Seattle, WA. June 2001.
197. CJD Recommendations and New Disinfection and Sterilization Technologies. North Carolina Association of Hospital Central Service Professionals. Winston-Salem, NC. July 2001.

198. Selection and Use of Disinfectants and Sterilization in Healthcare Facilities and Inanimate Environment in the Operating Room and Infection Control. 12th National Congress and 1st International Congress on Infections in the Operating Room and Sterilization. Vina del Mar, Chile. August 2001.
199. Best Practices: Reprocessing of Medical Devices. New South Wales Infection Control Association, New South Wales Infection Control Resource Centre, New South Wales Operating Theatre Association. Sydney, Australia. September 2001.
200. Infections Associated with Improperly Processed Endoscopes and Accessories and Endoscope Reprocessing: Current Status of Cleaning and Disinfection Methods and Recommendations for Infection Prevention in Endoscopy. Asian Pacific Association of Gastroenterology and Gastroenterological Nurses College of Australia. Conference. Sydney, Australia. September 2001.
201. Cleaning, Disinfection and Sterilization and Medical Waste. South Dakota Infection Control Conference. Rapid City, South Dakota. October 2001.
202. Draft Guideline for Environmental Infection Control in Healthcare Facilities, 2001. APIC-NC and APIC-Palmetto (SC). Greensboro, NC. October 2001.
203. Overview of Disinfection and Sterilization Technologies. The Twenty-Seventh Annual Symposium on Infection Control. Western New York State Infection Control Organization. Rochester, NY. October 2001.
204. Disinfection and Sterilization. Sixth Conference on Infectious Diseases. AORN and Kimberly-Clark. Roswell, GA. December 2001.
205. Sterilization and Disinfection for Prion Disease: US Perspective (and Meet the Consultant: Sterilization/Disinfection and Endoscopy). 12th Annual Scientific Meeting of The Society of Healthcare Epidemiology of America. Salt Lake City, Utah, April 2002.
206. New Disinfection and Sterilization Technologies. APIC New England. Auburn, MA. April 2002.
207. What's New in Disinfection and Sterilization (and Creutzfeldt-Jakob Disease Panel). International Association of Healthcare Central Service Materiel Management. Orlando, FL. May 2002.
208. New Sterilization and Disinfection Technologies. Office Sterilization and Aseptic Practices. Nashville, TN. May 2002.
209. Prevention of Infection Due to Endoscopy. Society of Gastrointestinal Nurses and Associates, Phoenix, AZ. May 2002
210. Reprocessing of Medical Devices Labeled for "Single-Use": What You Need to Know. Association of Medical Device Reprocessors, 29th Annual APIC Educational Conference. Nashville, TN. May 2002.
211. CJD: Disinfection and Sterilization Issues (and Meet the Expert-Disinfection and Sterilization). 29th Annual APIC Educational Conference. Nashville, TN. May 2002.
212. Sterilization in Healthcare Facilities and Inanimate Environment in the Operating Room and Infection Control and Sterilization Practices in Healthcare Facilities and Selection and Use of Disinfectants. SOBECC-Brazilian Society for Nurses of Central Processing and Surgery. Sao Paulo, Brazil. July 2002.

213. Decontamination of Heat-Sensitive Items (Lowbury Lecture) and Disinfectants or Detergents for Environmental Cleaning and Prevention of Infection Due to Endoscopy. Fifth International Conference of the Hospital Infection Society. Edinburgh, Scotland. September 2002.
214. Hand Hygiene. APIC-NC Education Conference. Wilmington, NC, September 2002.
215. Guideline for Disinfection and Sterilization in Healthcare Facilities. 42nd Interscience Conference of Antimicrobial Agents and Chemotherapy. San Diego, CA. September 2002.
216. New Developments in Disinfection and Sterilization (Keynote Address). Congress of the German Association of Hygiene and Microbiology. Heidelberg, Germany. October 2002.
217. Reuse of Single-Use Medical Devices: Hospital Perspective. American Society for Healthcare Central Service Professionals. San Antonio, TX. October 2002.
218. Disinfection and Sterilization in Healthcare in the Third Millennium and Sterilization and Disinfection Policies to Address the Threat of Human Prion-Related Diseases. University of Wisconsin-Madison. Madison, Wisconsin. January 2003.
219. What's New in Disinfection and Sterilization. Maryland Infection Control Network/Johns Hopkins University. Baltimore, MD. March 2003.
220. The New CDC Guidelines for Disinfection and Sterilization: Issues and Controversy. SHEA Preconference. Washington, DC. April 2003.
221. Environmental Control and Nosocomial Pathogens. SHEA/CDC Training Course in Healthcare Epidemiology. Atlanta, GA. May 2003.
222. Endoscope Reprocessing: United States Perspective. 7th International Bode Hygiene Days. Barcelona, Spain. May 2003.
223. Disinfection and Sterilization in Healthcare Facilities: CDC Guidelines and Activity of Germicides Against Bioterrorist Agents and Disinfection and Sterilization of Tissue and Surface Disinfection: Should We Do It? APIC 2003 Postconference on Disinfection, Sterilization and Antisepsis. San Antonio TX. June 2003
224. Transmissible Spongiform Encephalopathy (TSE) Agents and Infection Control in Hospitals: Experience in USA. Food and Drug Administration TSE Advisory Committee. Bethesda, MD. July 2003.
225. What's New in Disinfection and Sterilization. Florida Practitioners in Infection Control. Orlando, FL. September 2003.
226. Prions and Reprocessing of Reusable Medical Products. Eighth International Kilmer Memorial Conference. Osaka, Japan. October 2003.
227. Disinfection and Sterilization in Healthcare Facilities. American Society of Healthcare Central Service Professionals. Grand Rapids, MI. October 2003.
228. Disinfection and Sterilization in Healthcare Facilities. Arkansas Practitioners for Infection Control. Little Rock, AR. November 2003.
229. Disinfection and Sterilization in Health Facilities. Bay Area Chapter of APIC, Tampa, FL. January 2004.

230. Prevention of Infections Associated with Endoscopy and The New CDC Guideline for Disinfection and Sterilization and CJD: Recommendations for Disinfection and Sterilization and Medical Waste Management and Recommendations for Infection Prevention in Endoscopy. Asia Pacific Society of Infection Control, Singapore. March 2004.
231. Surface Disinfection: Should We Do It? and Recommendations for Infection Prevention in Endoscopy. International Congress of the German Society for Hospital Hygiene, Berlin, Germany. April 2004.
232. Disinfection and Sterilization: Issues and Controversies. Society of Healthcare Epidemiology of American, Philadelphia, PA. April 2004.
233. Environmental Control of Nosocomial Pathogens. SHEA/CDC Training Course. Boston, MA. May 2004.
234. Use of Disinfectants in Health Care: A Cause for Concern? 104th ASM Annual Meeting. New Orleans, LA. May 2004.
235. Disinfection and Sterilization: Issues and Controversies. 31st Annual Educational Conference and International Meeting. Phoenix, AZ. June 2004.
236. Sterilization and Disinfection: CDC Guidelines and CJD and Prions: Processing of Reusable Medical Products and Endoscope Reprocessing: Current Status of Disinfection Recommendations and Inanimate Environment in the Operating Room and Infection Control. APIC Greater New Orleans and River Region Chapters. New Orleans, LA. September 2004.
237. Sterilization and Disinfection: CDC Guidelines and CJD and Prions: Processing of Reusable Medical Products and Endoscope Reprocessing: Current Status of Disinfection Recommendations and Inanimate Environment in the Operating Room and Infection Control. APIC Dallas-Forth Worth, Dallas, TX. September 2004.
238. Clean vs. Mean! What Role Does the Environment Play in the Transmission of Nosocomial Pathogens? 42nd Annual Meeting of the Infectious Diseases Society of America. Boston. October 2004.
239. Principles of Sterilization and Prevention of Infections in Endoscopy and Surface Disinfection: Pro and Con. 5th Congress of the International Federation of Infection Control (IFIC), Porec, Croatia, October 2004
240. Disinfection and Sterilization in Healthcare Facilities. APIC Northeast Florida. Jacksonville, Florida. April 2005.
241. Disinfection and Sterilization and Environmental Infection Control in Health Care Facilities. APIC New England. Springfield, MA. May 2005
242. Disinfection and Sterilization and Environmental Infection Control in Health Care Facilities. APIC Midnight Sun, Anchorage, Alaska. May 2005
243. Environmental Control and Nosocomial Pathogens. SHEA/CDC Training Course in Healthcare Epidemiology. St. Louis, Missouri. May 2005.
244. The New CDC Guideline for Disinfection and Sterilization and Disinfection and Sterilization-Meet the Expert. APIC's 32nd Annual Educational Conference and International Meeting. Baltimore, MD. June 2005

245. Sterilization and Disinfection: CDC Guidelines and CJD and Prions: Processing of Reusable Medical Products and Endoscope Reprocessing: Current Status of Disinfection Recommendations and Inanimate Environment in the Operating Room and Infection Control. APIC Dallas-Forth Worth, Dallas, TX. August 2005.
246. Disinfection and Sterilization in Healthcare Facilities. APIC Virginia. Richmond, VA. October 2005.
247. Disinfection and Sterilization in Healthcare Facilities and Medical Waste Management. 1st Eastern Mediterranean Regional Network for Infection Control and 14th Egyptian Society of Infection Control Conference. Cairo, Egypt. November 2005.
248. CJD and Beyond. Tenth Conference on Infectious Diseases 2005. APIC, AORN and Kimberly-Clark. Roswell, GA. December 2005.
249. Environmental Control to Reduce Hospital GI Illness and Disinfection and Sterilization: Current Research. Society of Healthcare Epidemiology of American, Chicago, Illinois. March 2006.
250. Clean vs Mean: Role of the Environment and Surface Disinfection: Should We Do It? Wisconsin APIC, May 2006.
251. An Overview of Disinfection and Sterilization and Surface Disinfection: New Processes and Products and How to Assess Risk of Disease Transmission When There Is a Failure to Follow Recommended Disinfection and Sterilization Principles. APIC 2006 Preconference on Disinfection, Sterilization and Antisepsis. Tampa, Fl. June 2006.
252. Disinfection and Sterilization in Healthcare Facilities. APIC 33rd Annual Education Conference and International Meeting. Tampa, Fl. June 2006.
253. Instrument Disinfection and Sterilization in Hospitals Today and Reprocessing of Medical Devices Labeled for "Single Reuse". International Federation of Infection Control. Cape Town, South Africa. July 2006.
254. Disinfectants Resistance and Prevention of Surgical Infections and New CDC Guidelines on Disinfection and Sterilization. VI Pan-American Congress and X Brazilian Congress of Infection Control and Hospital Epidemiology. Porto Alegre, Brazil. September 2006.
255. Environmental Contamination Makes An Important Contribution to Hospital Infection and Emerging Issues in Disinfection. Sixth International Conference of the Hospital Infection Society. Amsterdam, Netherlands. October 2006.
256. Infection Control Basics for Sanitarians. NC Environmental Health State of Practice; Institutional Sanitation. Gastonia, NC. November 2006.
257. Disinfection and Sterilization Guideline. 11th Conference on Infectious Diseases, 2006. Roswell, GA. December 2006.
258. Sterilization and Disinfection: Present and Future (Keynote Address) and "Selection and Use of Disinfectants" and "Disinfection and Sterilization Issues". Fifth Conference on Disinfection, Antisepsis and Sterilization. Antalya, Turkey. April 2007.
259. Emerging Issues in Disinfection and Sterilization and Disinfection and Sterilization and Prions. The Society for Healthcare Epidemiology of America. Baltimore, MD. April 2007.

260. Disinfection and Sterilization: What's New and Occupational Health Service Update. 31st Annual Iowa Infection Control Seminar. Iowa City, Iowa. May 2007.
261. What You Need to Know: Disinfection and Sterilization Guidelines and Risk Analysis of Disinfection and Sterilization Failures and Disinfection and Sterilization: What's New? APIC 34th Annual Education Conference and International Meeting. San Jose, 2007.
262. Reprocessing of Endoscopes: Issues and Solutions and New Developments in Disinfection and Sterilization. 3rd International Congress of the Asia Pacific Society of Infection Control. Kuala Lumpur, Malaysia. July 2007.
263. The Use of Disposable Wipes in Healthcare Facilities. INDA-Association of the Nonwoven Fabrics Industry, World of Wipes International Conference, Atlanta, GA. July 2007.
264. Disinfection and Sterilization: What You Need to Know. 32nd Annual Florida Professionals in Infection Control Conference. Orlando, Florida. August 2007.
265. Epidemiology and Prevention of Surgical Site Infections. AORN-South Carolina. Charleston, SC. September 2007.
266. Epidemiology and Prevention of Surgical Site Infections. AORN-North Carolina. Concord, NC. September 2007.
267. Prevention of *Clostridium difficile* Transmission in Healthcare Facilities and Review of New CDC/HICPAC Guideline on Disinfection and Sterilization. Infectious Disease Society of American 45th Annual Meeting. San Diego, CA. October 2007.
268. Emerging Issues in Disinfection and Sterilization and Environmental Infection Control. International Federation of Infection Control. Budapest, Hungary. October 2007.
269. What's New in Disinfection and Sterilization and The Role of the Environment in Infection Prevention. Epidemiologists and Professionals in Infection Control 26th Annual Educational Conference. Oklahoma City, OK. November 2007.
270. Disinfection and Sterilization: Meeting the Requirements. APIC-LA. Los Angeles, CA. January 2008
271. Disinfection, Sterilization and Antisepsis. Tennessee Valley APIC. Huntsville, AL, February 2008
272. An Overview of Disinfection and Sterilization in Healthcare Facilities and Outbreaks Associated with Contaminated Antiseptics and Disinfectants and Sterilization Practices in Healthcare Facilities and Prevention of Infections Due to Endoscopy and Emerging Issues in Disinfection and Sterilization and Risk and Infection Prevention in Dentistry. National Conference on Disinfection and Sterilization in Bangkok, Thailand, March 2008.
273. CDC Guidelines: What's New in Disinfection and Sterilization. Association of periOperative Registered Nurses. Anaheim, CA. April 2008.

274. Current Issues in Disinfection and Sterilization and Disinfection and Sterilization. Society of Healthcare Epidemiology of America. Orlando, Florida. April 2008
275. Sterilization and Flash Sterilization: Meeting the Requirements. Perioperative Care Symposium, Joint Commission Resources. Chicago, Illinois, April 2008.
276. Disinfection and Sterilization: Meeting the Requirements. North Carolina Association of Hospital Central Service Professionals. Myrtle Beach, SC. May 2008.
277. Selection and use of hospital disinfectants and Evidence-based practices for the prevention of SSIs. Nicosia, Cyprus. May 2008.
278. Disinfection and Sterilization: Current Issues and New Technologies and Current Challenges in Disinfection, Sterilization and Antisepsis. 35th Annual Education Conference and International Meeting. Denver, CO. June 2008.
279. *Clostridium difficile*: A Growing Threat in Your Facility. American Society for Healthcare Environmental Services Annual Conference. San Antonio, TX. September 2008.
280. Disinfection and Sterilization: Meeting the CDC Guideline. APIC Minnesota. Minneapolis, MN. September 2008.
281. Prions and Processing of Reusable Medical Devices: US Perspective. Japanese Association of Operative Medicine. Tokyo, Japan. September 2008.
282. Cleaning, Disinfection and Sterilization: Meeting the CDC Guidelines and *Clostridium difficile* and Norovirus: Transmission and Prevention and The Future of Infection Control: Predictions, Warnings, Challenges. Hawaii APIC, Honolulu, Hawaii. October 2008.
283. Emerging Issues in Disinfection and Sterilization and Disinfection and Sterilization: Challenges in the XXI Century and Environment as a Source of Nosocomial Infections. IX International Federation of Infection Control, VII PanAmerican Congress, XIV Chilean Congress of Nosocomial Infections. Santiago, Chile. October 2008.
284. Cleaning, Disinfection and Sterilization: Meeting the CDC Guidelines and The Role of the Environment in Disease Transmission. Smoky Mountain APIC. Pigeon Forge, TN. November 2008.
285. *Clostridium difficile*: Role of the Environment and Reviewing the Data-Bleach. APIC National. Orlando, FL. November 2008.
286. The Role of the Environment in the Prevention of Infections. Infectious Disease Society of New Jersey and APIC-NJ and APIC-SNJ. Monroe Township, NJ. November 2008.
287. Ensuring Safe Medical Devices and Disinfection and Sterilization. Society of Healthcare Epidemiology of America. San Diego, CA. March 2009

288. Disinfection and Sterilization: Meeting the CDC Guidelines and Prevention of Infection Associated with Endoscopy and Prevention of Surgical Site Infections and Challenges for Infection Prevention in the 21st Century. Texas Society of Infection Control Professionals, Austin, TX, March 2009
289. Disinfection and Sterilization: Meeting the CDC Guidelines and The Future of Infection Control: Predictions, Warnings and Challenges. APIC Indiana. Indianapolis, IN, April 2009
290. Disinfection and Sterilization: Successes and Failures and As Overview of Disinfection and Sterilization in Healthcare and New Developments in Reprocessing Critical and Semicritical Items: Endoscopes, Endocavitary Probes, Prostate Biopsy Probes, Tonometers, Laryngoscopes and Disinfection and Sterilization: Special Emphasis on Pediatric Issues. 36th APIC Annual Educational Conference. Fort Lauderdale, FL. June 2009.
291. Disinfection and Sterilization: Current Issues and New Technologies and CJD and Prions: Processing of Reusable Medical Products and Emerging Trends in Hospital-Associated Infections and Advances in Infection Control in Endoscopy. 4th Asian Pacific Society of Infection Control, Macau, China. July 2009
292. Disinfection and Sterilization: Guidelines Update. APIC North Carolina. Wilmington, NC October 2009.
293. Disinfection and Sterilization: Navigating a Maze of Different Applications and Requirements. 10th Congress of the International Federation of Infection Control. Vilnius, Lithuania, October 2009.
294. Incidences and Consequences of SSI and CABSIs. Georgia Infection Prevention Network, Pine Mountain, GA. October 2009
295. *Clostridium difficile*: What Antiseptics and Disinfectants Should We Use? 47th Annual Infectious Disease Society of America. Philadelphia, PA. October 2009
296. The Role of the Environment in Healthcare Associated Infections and New Developments in Reprocessing Critical and Semicritical Items and Prion Diseases: Current and Future Challenges. 4th Annual Meeting of Gulf Cooperation Council (GCC)-Centre for Infection Control. Doha, Qatar. November 2009
297. Environmental Strategies to Reduce Infections and Disinfection and Sterilization. 4th SHEA/CDC Course. Doha, Qatar. November 2009
298. Current Issues and Controversies in Disinfection and Sterilization and Novel Approaches to Room Decontamination. Fifth Decennial International Conference on Healthcare-Associated Infections. Atlanta, GA March 2010.
299. Guidelines: How to Modify Risk Factors for Healthcare-Associated Infections. Florida APIC, Jacksonville, FL. March 2010.

300. New Developments in Reprocessing Critical and Semicritical Items and Challenges for Infection Prevention in the 21st Century: Predictions, Warnings and Challenges. Panamerican Congress on Sterilization. San Jose, Costa Rica, April 2010
301. Future of Infection Control in the 21st Century: Predictions, Warnings and Challenges and The Role of the Environment in Disease Transmission. Wisconsin APIC 2010 Seminar. Pewaukee, Wisconsin, April 2010.
302. Novel Approaches to Infection Control. 37th Annual Educational Conference and International APIC Meeting, New Orleans, LA. July 2010.
303. How to Assess Risk of Disease Transmission When There Is a Failure to Follow Recommended Disinfection and Sterilization Principles. Infection Prevention Leadership Summit, St. Paul, MN. September 2010.
304. What's New in Disinfection and Sterilization. APIC-NC, Blowing Rock, NC. September 2010.
305. How to Assess Risk of Disease Transmission When There Is a Failure to Follow Recommended Disinfection and Sterilization Principles and Disinfection and Sterilization: Current Issues and New Technologies. APIC Chicago. October 2010.
306. Future of Infection Control in the 21st Century: Predictions, Warnings and Challenges? (Keynote Address) and Terminal Sterilization: Gold Standard for Critical Surgical Instruments. 7th International Conference of the Hospital Infection Society. Liverpool, England. October 2010.
307. Role of the Environment in Disease Transmission and Current Issues and New Technologies. APIC Virginia. Roanoke, VA. October 2010.
308. The Role of the Environment in Disease Transmission and Disinfection and Sterilization: Meeting the CDC Guidelines. FOCUS 2010 Wisconsin Department of Health Services. Wisconsin Dells, WI. November 2010.
309. Novel Technologies for Infection Prevention and How to Assess and Improve the Effectiveness of Surface Cleaning and Disinfection. Consumer Specialty Products Association. Ft. Lauderdale, FL. December 2010.
310. Future of Infection Control in the 21st Century and Disinfection and Sterilization: Current Issues and New Technologies. Japanese Society of Environmental Infections. Yokohama, Japan. February 2011.
311. Outbreaks of Infection Associated with Disinfectants and Antiseptics and Prevention of Infection Associated with Endoscopy and Disinfection and Sterilization: Meeting the CDC Guidelines, Sterilization Processes and Practices and Disinfection and Sterilization: Meeting the CDC Guidelines, Disinfection Products and Practices. National University of Mexico Symposium on Disinfection and Sterilization, Mexico City, Mexico. March 2011
312. Current Issues in Disinfection and Sterilization and How to Assess the Risk of Disease Transmission When There is a Failure of Disinfection/Sterilization and Meet the Consultant:

- Disinfection and Sterilization. 21st Annual Scientific Meeting of The Society of Healthcare Epidemiology of America. Dallas, Texas. April 2011.
313. 311. Role of hospital surfaces in transmission of emerging healthcare-associated pathogens: Norovirus, *Clostridium difficile* and *Acinetobacter*. Bode Hygiene Days, Strasbourg, France. May 2011.
314. Disinfection and Sterilization: Current Issues and New Technologies and High Level Disinfection and Sterilization Failures. 38th Annual APIC Educational Conference and International Meeting. Baltimore, MD. June 2011
315. Disinfection and Sterilization: Current Issues and New Technologies. APIC-NC. Raleigh, NC. September 2011.
316. Clean Spaces, Healthy Patients. Leaders in Infection Prevention and Environmental Services Working Together for Better Patient Outcomes (panel). Association for the Healthcare Environment. Kissimmee, FL. September 2011.
317. Guidelines: How to Modify Risk Factors for Healthcare-Associated Infections (Keynote Address) and Prion Diseases: Current and Future Challenges. Eleventh Congress of the Federation of Infection Control. Venice, Italy. October 2011.
318. Role of Hospital Surfaces in the Transmission of Emerging Healthcare-Associated Pathogens: Norovirus, *Clostridium difficile* and *Acinetobacter* (Keynote Address) and The Future of Infection Control: Predictions, Warnings and Challenges. The 5th International Congress of the Asia Pacific Society of Infection Control. Melbourne, Australia. November 2011.
319. Update on Disinfection and Sterilization and Update on Environmental Cleaning. Infection Control Association of Singapore. Singapore, November 2011.
320. Decontamination and Sterilization. Central Sterilising Club Annual Scientific Meeting. Edinburgh, Scotland. April 2012
321. The Challenges of Infection Prevention in the 21st Century and Disinfection and Sterilization: Meeting the CDC Guidelines. Infection Prevention Congress. Santiago, Chile. May 2012.
322. The Future of Infection Control: Predictions, Warnings and Challenges and Disinfection and Sterilization: Meeting the CDC Guidelines and Surgical Site Infection Prevention and Disinfection and Sterilization: Current Issues and New Technologies. International Infection Prevention Congress. Buzios, Brazil, May 2012.
323. Elaine Larson Lectureship: Disinfection and Sterilization: From Benchtop to Bedside and Disinfections Used for Room Disinfection and New Room Decontamination Technology and New Developments in Reprocessing Semicritical Items. 39th Annual APIC Educational Conference and International Meeting. San Antonio, Texas. June 2012.
324. Disinfectants Resistance: Is There a Relationship Between Use and Resistance. Society for Applied Microbiology. Edinburgh, Scotland. July 2012.

325. Role of Hospital Surfaces in the Spread of Healthcare-Associated Pathogens and Best Practices for Surface Disinfection and New Room Decontamination Methods. Northeast Ohio APIC. September 2012.
326. Environmental Surface Disinfection: Pushing the Envelope (Keynote Address). Association for the Healthcare Environment. Phoenix, AZ September 2012.
327. Safer Healthcare Environment for Infection Prevention (Keynote Address). 2012 APIC North Carolina Educational Conference, Greensboro, NC. September 2012.
328. Disinfection and Sterilization: Current Issues and How to Assess Risk to Patients When There Is a Disinfection and Sterilization Failure. Role of Surfaces in Transmission of Healthcare-Associated Pathogens and "Best" Practices for Surface Disinfection (Keynote Address). APIC Long Island, NY September 2012.
329. Environmental Disinfection: What Works Best? Mechanical Systems and Incidences and Consequences of Surgical Site Infections and Central-Line Associated Bloodstream Infections. Twelfth Congress of the International Federation of Infection Control. Zagreb, Croatia. October 2012.
330. Future of Infection Control in the 21st Century: Predictions, Warnings, and Challenges and Prion Diseases: Current and Future Challenges and Disinfection and Sterilization: Current Issues and New Technology and Role of Hospital Surfaces in Transmission of Emerging Healthcare-Associated Pathogens and How to Assess the Risk of Disease Transmission When There is a Failure of Disinfection/Sterilization. APIC DFW, Dallas, TX. October 2012.
331. Safer Healthcare Environments for Infection Prevention (SHEA Lectureship) and Reprocessing Critical and Semicritical Items: What's New and *C. difficile* and the Environment: Disinfection Practices and Mitigating Risk to Patients. ID Week. San Diego, CA. October 2012.
332. .How to Assess Risk to Patients When There Is a Disinfection and Sterilization Failure and Prevention of Surgical Site Infections. APIC Smokey Mountains. Pigeon Forge, TN. November 2012.
333. New Technologies for Environmental Decontamination: Should We Be Using Them and Current Issues and New Technologies for Reprocessing Endoscopes. Healthcare Infection Society. Liverpool, UK. November 2012.
334. The Role of the Environment in Disease Transmission: 21st Century Room Decontamination Technologies. Antarctica Expedition (Corinthian II). January 2013.
335. Environmental Strategies to Reduce Infections and Recommendations for Sterilization of Prion-Contaminated Surgical Instruments. Central Florida APIC. Orlando, FL. March 2013.
336. Disinfectants, Detergents and Microfiber: Current and Future Issues. SHEA Spring 2013. Atlanta, GA. May 2013.

337. New Technology in Environmental Cleaning and Evaluation. APIC 40th Annual Conference. Ft. Lauderdale, FL. June 2013.
338. Disinfection and Sterilization: Current Issues and New Technology and Future of Infection Control in the 21st Century: Predictions, Warnings, and Challenges. Illinois Hospital Quality Initiative, Chicago, IL September 2013.
339. Disinfection and Sterilization: Meeting the CDC Guidelines and Environmental Strategies to Reduce Infections. APIC Pine Tree. Portland, Maine. September 2013.
340. Every Object a Different Disinfectant-The Enemy of Standardization. IDWeek. San Francisco, CA. October 2013
341. Unknown or Hidden Reservoir of Infection and Prevention Strategy. Symposium of the Rudolph Schulke Foundation. Hamburg, Germany. November 2013.
342. What's New: Incidence and Consequences of Surgical Site Infections and What's New: Safer Healthcare Environment for Infection Prevention. Fourteenth Congress of the International Federation of Infection Control. March 2014. Malta
343. How to Assess Risk to Patients When There is a Disinfection and Sterilization Failure. National Institute of Public Health of Quebec. March 2014. Montreal, Quebec, Canada
344. Impact of Medical Devices Processing in HAI Prevention and Low-Temperature Sterilization: Characteristics, Benefits, Monitoring and Guarantee of the Steam Sterilization Process: Practice Based on CDC Evidence. 3rd International Congress on Infection Prevention. April 2014. Guarujá, Brazil.
345. Challenges for Infection Prevention in the 21st Century and "Best" Practices for Disinfection of Non-Critical Surfaces and Equipment. April 2014, Children's Hospital Association. Phoenix, AZ
346. Disinfection and Sterilization: Current Issues and New Technologies and Role of the Environment in Disease Transmission: 21st Century Room Decontamination Technology. May 2014, Pewaukee, Wisconsin.
347. Endoscope Reprocessing: What's New and Perspectives in Infection Prevention in the GI Unit. Society of Gastroenterology Nurses and Associates 41st Annual Course, May 2014.
348. Update on Disinfection and Sterilization and Challenges for Infection Prevention in the 21st Century. May 2014, Cedar Rapids, Iowa.
349. Disinfection and Sterilization: What's New? APIC 41st Annual Conference. June 2014. Anaheim, CA
350. Disinfection and Sterilization: Current Issues and New Technologies and Disinfection and Sterilization: Special Emphasis on Pediatric Issues. Children's Hospital Association. September 2014. Scottsdale, AZ

351. Disinfection and Sterilization: Current Issues and New Technologies. APIC North Carolina. September 2014, Concord, NC.
352. Safer Healthcare Environment for Infection Control and Role of the Environment in Disease Transmission: 21st Century Room Decontamination Technologies. Florida Professionals in Infection Control. September 2014. Orlando, FL.
353. Selection of an Ideal Disinfectant. Association for the Healthcare Environment. September 2014. Tampa, FL.
354. Disinfection and Sterilization: Current Issues and New Technologies and Role of the Environment in Disease Transmission: 21st Century Room Decontamination Technology. APIC Virginia, Richmond, VA. October 2014.
355. Future of Infection Control in the 21st Century and Infection Control during Construction/Renovation and Water Damage. Intermountain APIC. Boise, Idaho. October 2014.
356. Soft Surface Disinfection and Ultraviolet C Room Decontamination. California APIC Coordinating Council. San Francisco, CA, November 2014
357. Disinfection and Sterilization: Current Issues and New Technologies. Visiting Professor. Duke University School of Medicine. November 2014
358. Disinfection and Sterilization: Monitoring and Validation and Current Issues and New Technologies for Reprocessing Flexible Endoscopes and Epidemiology and Prevention of *Clostridium difficile* infection. 4th International Congress of Infection Control Association (Singapore). Singapore, January 2015.
359. Basic Infection Control Processes and Their Inter-Relationship with the Environment and Disinfection and Sterilization: Meeting the CDC Guidelines; and Clean and Disinfect in the Healthcare Environment: One Size Does Not Fit All; and Selection of the Ideal Disinfectant. International Symposium on Healthcare Associated Infections: Antimicrobial Stewardship and a Multidisciplinary Approach. Bogota, Colombia. February 2015.
360. Disinfection and Sterilization: Meeting the CDC Guidelines and Using Technology for Biomedical Waste Management and New Techniques for Terminal Decontamination of Rooms. 15th Congress of the International Federation of Infection Control and XIII National Conference of the Hospital Infection Society-India. March 2015, Delhi, India.
361. Recent Outbreaks of CRE Transmission via Endoscopes: What Can We Do To Prevent Infections? and Disinfection and Sterilization: Current Issues and New Technologies. APIC New England. April 2015. Springfield, MA
362. High-Level Disinfection and Sterilization: Current Issues and New Technologies. IAHCSSM (International Association of Healthcare Central Service Materiel Management). Fort Lauderdale, FL. May 2015.

363. ERCP Scopes: What Can We Do To Prevent Infections? Gastroenterology and Urology Devices Panel of the Medical Devices Advisory Committee. Silver Spring, MD May 2015.
364. Selection of the Ideal Disinfectant and Incidence and Consequences of Surgical Site Infections. 1st Ibero-Americano and 8th National Sterilization Congress. Barranquilla, Colombia. June 2015.
365. Disinfection, Sterilization and Antisepsis in Health Care: An Overview and Recent Outbreaks of CRE Transmission via Endoscopes: A Need to Shift from Disinfection to Sterilization and New Developments in Reprocessing Semicritical Items: Endocavitary Probes, Prostate Biopsy Probes, Channeled Endoscopes, and Laryngoscopes and Monitoring and Improving the Effectiveness of Surface Cleaning/Disinfection and What's New in Disinfection and Sterilization. 42nd Annual Conference of the Association for Professionals in Infection Prevention and Epidemiology, Nashville, Tennessee. June 2015
366. Disinfection and Sterilization: Current Issues and New Technologies. 7th Annual Fleming Infection Prevention and Infectious Diseases Symposium. Lehigh Valley Health Network, Allentown, PA September 2015.
367. Future of Infection Control in the 21st Century: Predictions, Warnings, and Challenges and Epidemiology and Prevention of *C. difficile* Infection. San Diego APIC. San Diego, CA. October 2015.
368. Disinfection and Sterilization: Current Issues and New Technologies and Clean and Disinfect the Healthcare Environment: One Size Does Not Fit All. APIC Rochester Finger Lakes, Rochester, NY. November 2015.
369. Disinfection and Sterilization: What's New? APIC Northern New Jersey and APIC Southern New Jersey. Monroe Township, NJ. November 2015.
370. Role of Cleaning, Disinfection and Sterilization to Prevent Healthcare-Associated Infections and Hand Hygiene and Chlorhexidine Gluconate: The Role in Reducing HAIs and Practical Approach to Cleaning and Disinfection of Hospital Surfaces. IX International Symposium on Antimicrobial Resistance. Cali, Colombia. March 2016.
371. High-Level Disinfection and Sterilization: Current Issues and New Technologies. New Jersey Central Service Association. March 2016.
372. What's New in Cleaning and Disinfection and Duodenoscope and Endoscope Reprocessing. APIC Greater Los Angeles and Tri-Valley APIC. Los Angeles, CA. March 2016.
373. Disinfection and Sterilization: The Good, The Bad, and The Ugly (Keynote Address). 43rd Annual APIC Conference, Charlotte, NC. June 2016.
374. Role of the Environment in Disease Transmission: Will Use of "No Touch" Technologies (UV, HP) Reduce Healthcare-Associated Infections? Association for the Healthcare Environment. Pittsburgh, PA. September 2016.

375. Disinfection and Sterilization: The Good, The Bad, and The Ugly. Georgia Infection Prevention Network. Laurel Lake, GA. October 2016.
376. Disinfection and Sterilization: Current Issues and New Technologies. APIC Palmetto Annual Conference, Columbia, SC. October 2016.
377. Duodenoscopes and Endoscope Reprocessing: A Need to Shift from Disinfection to Sterilization. Society of Gastrointestinal Nurses and Associates. New Orleans, Louisiana. May 2017.
378. Duodenoscopes and Endoscope Reprocessing: A Need to Shift from Disinfection to Sterilization. Canadian Infection Prevention Nurses Association. Jonquiere, Quebec, Canada. May 2017
379. Duodenoscopes and Endoscope Reprocessing: A Need to Shift from Disinfection to Sterilization. APIC 44th Annual Conference, June 2017.
380. Disinfection and Sterilization: What's New and What's New: Strategies in Healthcare Environment Infection Prevention, Portland, Oregon, APIC 44th Annual Conference, June 2017.
381. Gastrointestinal Endoscopes: Are We Doing Enough to Protect Patients and Disinfection and Sterilization: What's New? APIC Chicago, Oak Brook, IL, October 2017.
382. Duodenoscopes and Endoscope Reprocessing: A Need to Shift from Disinfection to Sterilization (Keynote) and Environmental Surface Disinfection: Current Issues and New Technologies. APIC Cincinnati Dayton Area. Sharonville, OH. October 2017.
383. Gizmos and Gadgets: A Review of New Technologies for Environmental Services and Disinfection and Sterilization. SHEA Spring 2018 Conference. Portland, Oregon. April 2018.
384. Disinfection and Sterilization: What's New? APIC 45th Annual Conference, June 2018. Minneapolis, MN
385. Disinfection and Sterilization: What's New? (Keynote Address) Florida Professionals in Infection Control (FPIC). September 2018. Tampa, FL
386. Disinfection and Sterilization: What's New? APIC North Carolina. September 2018. Durham, NC
387. Disinfection and Sterilization: What's New? (Keynote Address) APIC Grand Canyon. October 2018. Phoenix AZ
388. Safer Healthcare Environment for Infection Prevention and Future of Infection Control in the 21st Century: Predictions, Warnings and Challenges. Hawaii APIC, Honolulu, HI November 2018.
389. Disinfection and Sterilization: What's New? Houston APIC. November 2018. Houston, TX
390. Challenges in Decontamination of Medical and Surgical Instruments (including Robotic Instruments) and Endoscope Reprocessing: The Need to Shift from HLD to Sterilization and
391. Three Top Papers that Influenced Infection Prevention Practices in the US. The 11th Healthcare Infections Society International Conference. November 2018, Liverpool, UK.

393. Disinfection and Sterilization: What's New and Disinfection and Sterilization: Overcoming 21st Century Challenges. Japanese Society of Infection Control Society (APIC envoy). Osaka, Japan. February 2019.
394. Gastrointestinal Endoscopes: Are We Going Enough to Protects Patients and What Are the Risks Associated with Construction and Renovation in Healthcare Settings and Best Practices for Environmental Infection Control: Surfaces, Water, and Air. 9th International Congress of the Asia Pacific Society of Infection Control, DaNang, Vietnam. March 2019.
395. Disinfection and Sterilization. SHEA Spring 2019 Conference. Boston, MA. April 2018.

Webcast

1. Disinfecting Patient Care Equipment. Webber Training, Inc. May 2003
2. CJD: Recommendations for Disinfection and Sterilization. Webber Training, Inc. April 2005.
3. How to Assess Risk of Disease Transmission When There is a Failure to Follow Recommended Disinfection and Sterilization Principles. Webber Training, Inc. August 2006.
4. Disinfection and Sterilization Guidelines: What You Need to Know. Webber Training, Inc. July 2007.
5. Disinfection and Sterilization: Current Issues and New Technologies. Webber Training, Inc. August 2008.
6. Sterilization (and Flash Sterilization): Meeting the Requirements. Joint Commission Resources. March 2009
7. Disinfection and Sterilization: Special Emphasis on Pediatric Issues. Child Health Corporation of America. August 2009
8. Disinfection and Sterilization: Meeting the CDC Recommendations. APIC-Webinar. September 2009
9. Environmental Sanitation: New Technologies and Approaches to Room Decontamination. Association for the Healthcare Environment (AHE). July 2011
10. Best Practices for Cleaning, Disinfection and Sterilization in Healthcare Facilities. World Health Organization Patient Safety Challenge and Webber Training, December 2011.
11. Role of Hospital Surfaces in the Spread of Healthcare-Associated Pathogens: *Acinetobacter*, Norovirus, *C. difficile*. APIC Webinar. Sponsored by APIC and AHE. February 2012.
12. "Best" Practices in Surface Disinfection. Sponsored by APIC and AHE. April 2012
13. Disinfectants Used in Surface Disinfection and New Room Decontamination Technology. Sponsored by NIOSH. July 2012.

14. Role of Environmental Services in Prevention of Healthcare-Associated Infections: What the CEO Needs to Know. APIC Webinar. Sponsored by APIC and AHE. August 2012.
15. 21st Century Room Decontamination: Technology Solutions. Sponsored by AHE. December 2013.
16. Does Improving Surface Cleaning and Disinfection Reduce Healthcare-Associated Infections? AD Russell Memorial Teleclass. A Webber Training Teleclass. April 2013.
17. Efficacy, Selection and Use of Disinfectants and Detergents in Environmental Cleaning/Disinfection. Sponsored by AHE of American Hospital Association. April 2014.
18. Role of the Environment in Disease Transmission: Soft Surface Disinfection, UV. National Infection Prevention Steering Committee, Kaiser Permanente, May 2014
19. Disinfection and Sterilization: Current Issues and New Technologies. Pennsylvania Hospital Engagement Network. May 2014
20. What's New in Hospital Disinfectant Products. 3M Seminar Series. June 2014
21. "Best" Practices for Disinfection of Noncritical Surfaces and Equipment. NC Quality Center. October 2014.
22. Best Practices in Disinfection and Sterilization. APIC Webinar, November 2014.
23. Disinfecting Strategies for Environmental Surfaces in Healthcare: Importance of Product and Processes. Informa. May 2015.
24. Gastrointestinal Endoscopes: A Need to Shift from Disinfection to Sterilization. A Webber Training Teleclass. July 2015.
25. Gastrointestinal Endoscopes: Are We Doing Enough to Protect Patients? ECRI Institute. March 2016.
26. Recent Outbreaks of CRE Transmission via Endoscopes: What Can We Do To Prevent Infections? NC Quality Center, April 2016.
27. Role of surface environment in the transmission of healthcare-associated infections. Informa, April 2016.
28. Defining the Medical Device and HAI Problem: The Good, The Bad, and the Ugly. Stakeholder Event (AAMI, AHA, CDC, FDA/CDRH, and TJC). September 2016.
29. Future Trends in Environmental Surface Disinfection. Maryland Patient Safety Organization. January 2017.
30. Selection of an Ideal Disinfectant. Ascend, Premier, Inc. June 2017.

31. What's New: Strategies for Healthcare Environment Infection Prevention. Owens-Minor. August 2017.
32. Back to Basics of Disinfection, October 2017, Webinar for Georgia Infection Prevention Network and Kansas Great Plains Expo
33. Back to Basics of Disinfection, October 2017, Kansas Great Plains Expo
34. State of the Science: Environment of Care. The Hospital and Healthsystem Association of Pennsylvania. November 2017.
35. Disinfection and Sterilization: What's New? and Environment of Care: Air and Water and Best Practices in Disinfection of Noncritical Surfaces in the Healthcare Setting (due to family death, 3 presentations videotaped and sent to conference). 2nd SEHA International Conference on Prevention and Control of infection. September 2018. Abu Dhabi, UAE.

Honors and Awards:

1972	Phi Sigma
1975	Army Commendation Medal, US Army
1977	Sigma Xi
1982	John J. Perkins Memorial Scholarship, APIC
1985	Army Achievement Medal, US Army
1987	Army Achievement Medal, US Army (first oak leaf cluster)
1991	Army Commendation Medal, US Army (first oak leaf cluster)
1992-93	Management Excellence Award, UNC Hospitals
1994	Meritorious Service Medal, US Army
1999	Carole M. DeMille Achievement Award (highest APIC award for contribution to infection control research, education and service)
2000	American Society for Microbiology Division L (Nosocomial Infections) Lecture
2001	William A. Rutala Research Award (\$1,000 award given annually and in perpetuity by the Association for Professionals in Infection Control and Epidemiology in my name to encourage and recognize research excellence in disinfection/sterilization/antiseptics)
2001	Kelsey Lecture (Central Sterilizing Club, United Kingdom)

- 2002 Lowbury Lecture (given by the Hospital Infections Society annually to honor Edward Joseph Lister Lowbury, Edinburgh, Scotland)
- 2004 Honorary Medal of the German Society for Hospital Hygiene (Berlin, Germany)
- 2007 Healthcare Purchasing News, September 2007 (listed among 30 most influential thought leaders in sterile processing in past 30 years)
- 2008 Honorary Membership to the German Society of Hospital Hygiene (for excellent work in hospital hygiene)
- 2008 Dr. James J. Crawford Award (award given by the Organization for Safety, Asepsis and Prevention or OSAP for lifetime achievement in dental infection control)
- 2009 Martin S. Favero Lectureship Award (award given for lifetime achievement in disinfection, sterilization and antisepsis)
- 2010 Fellow, Society of Healthcare Epidemiology of America (honors those who achieved professional excellence in healthcare epidemiology and infection prevention)
- 2012 Harriet Hylton Barr Distinguished Alumni Award (awarded by the UNC School of Public Health for outstanding service beyond requirements of employment, impact in the awardee's practice arena, service to public health through achievements in leadership, innovation, experimentation and collaboration with the profession)
- 2012 Kelsey Lecture (Central Sterilizing Club, United Kingdom)
- 2012 APIC/AJIC Award for Excellence in a Scientific Research Publication (presented to DJ Weber, WA Rutala, MB Miller, K Huslage, EE Sickbert-Bennett in recognition of prominent readership and impact-Role of Hospital Surfaces in the Transmission of Emerging Healthcare-Associated Pathogens: Norovirus, *C. difficile*, and *Acinetobacter* species)
- 2012 Elaine Larson Lectureship, APIC (the award honors the individual best able to present a lecture on the state of the science of infection prevention or healthcare epidemiology in the area for which he or she has been a major contributor over a lifetime of pursuit)
- 2012 SHEA Lectureship (awardees are recognized for leadership through notable contributions to the science of healthcare epidemiology, demonstration of ongoing dedication to advancing the field, demonstration of mentorship and dedication to SHEA and its mission to prevent healthcare-associated infections and advance the science of healthcare epidemiology)
- 2013 AD Russell Memorial Teleclass Lecture

- 2013 Hygiene Medal from the Rudolf Schülke Foundation in Germany (awarded “to extraordinary people who have dedicated their life’s work to hygiene and microbiology”; first American recipient).
- 2015 William A. Rutala Scholarship- award given annually by the Society of Healthcare Epidemiologist of America (SHEA) in my name to a young professionals (e.g., PhD, PharmD candidates) who focus on healthcare epidemiology, infection prevention and antimicrobial stewardship.
- 2017 Order of the Long Leaf Pine (the highest honor bestowed by NC governors for persons who have made significant contributions to the state and their communities through their exemplary service and accomplishments).
- 2017 William A. Rutala Advancement in Infection Prevention Scholarship- award given annually by the North Carolina Statewide Program for Infection Control and Epidemiology (SPICE) for exceptional work performed in infection prevention through research or other infection prevention projects.