

***Summary Report of WSLH
Research, Teaching and Outreach
Activities Related to Our
UW-Madison Mission***

For the period of July 1, 2005 to June 30, 2006

Dear Colleagues and Partners:

Welcome to the Fiscal Year 2006 edition of the Wisconsin State Laboratory of Hygiene's *Research Annual Report*, which documents the broad spectrum of our partnership, research, testing and outreach activities from July 1, 2005, through June 30, 2006.

For several years, our laboratory has been compiling these reports and each year the list of activities and research continues to grow. As the new Director of the WSLH, I'm proud to share all of these accomplishments with you and to share how the Laboratory continues our commitment to the Wisconsin Idea and the University of Wisconsin's mission of "creating and disseminating" knowledge. With these efforts, we are preparing and training ourselves and future generations to meet the challenges facing public and environmental health.

Please look through this report and send us any comments about its contents. It is through cooperation and partnership with Wisconsin's public and environmental health community, its University and its citizens that we achieve our goal of being a world-class laboratory.

Sincerely,



Charles D. Brokopp, Dr. P.H.
Director, Wisconsin State Laboratory of Hygiene

Summary Report of WSLH Research, Teaching and Outreach Activities Related to Our UW-Madison Mission

For the period of July 1, 2005 to June 30, 2006

Table of Contents

I.	Partnerships with Non-WSLH Organizations	2
II.	Publications in Peer-reviewed Journals	20
III.	Other Publications	21
IV.	Research Papers in Progress	21
V.	Papers Presented at Scientific Meetings.....	22
VI.	Other Presentations	25
VII.	Programs, Workshops and Courses Presented by WSLH.....	30
VIII.	Programs, Workshops and Courses Where WSLH Was a Co-sponsor.....	32
IX.	University Courses Taught or Lectures Presented.....	33
X.	Other Teaching or Lectures Provided as Part of a "For-credit" Class	36
XI.	Other Teaching or Lectures Provided NOT as Part of a "For-credit" Class	37
XII.	Any Other Research or Outreach NOT Included Elsewhere.....	39
XIII.	Extramurally Funded Research.....	40
XIV.	Committees, Work Groups, Boards Within UW-Madison.....	41
XV.	Committees, Work Groups, Boards Outside UW-Madison.....	42
XVI.	Awards and Honors	48

WSLH Strategic Leadership Team – July 1, 2005 – June 30, 2006

Ronald H. Laessig, Ph.D.	Director, WSLH	608-262-0322
Daniel Kurtycz, M.D.	Medical Director, WSLH and Director, Disease Prevention Division	608-262-9461
Peggy Hintzman, MBA	Associate Director, WSLH and Director, Resource Division	608-262-8856
Mark Buechner, CPA	Chief Fiscal Officer	608-262-7822
Terry Burk, CIH	Director, Wisconsin Occupational Health Laboratory Assistant Director, Environmental Health Division	608-224-6215
John Chapin, M.S.	Director, Public Health Informatics and Surveillance Division	608-221-6276
David J. Hassemer, M.S.	Director, Laboratory Improvement Division	608-890-1748
Peter A. Shult, Ph.D.	Director, Communicable Disease Division	608-262-5419
William C. Sonzogni, Ph.D.	Director, Environmental Health Division	608-224-6200

Please note: Charles D. Brokopp, Dr.P.H., became WSLH Director in November 2006. Dr. Laessig is now Emeritus Director. Sharon Gehl became Resource Division Director in October 2006.

I. Partnerships with Non-WSLH Organizations

This section of the Research Annual Report focuses on partnerships that the WSLH participates in with other public and private sector organizations.

Partnerships are created for the purpose of meeting one of the core functions of a public health laboratory and leading to an outcome that can only be met through creation of the partnership. The following are the “Eleven Core Functions of State Public Health Laboratories,” as defined by the Association of Public Health Laboratories (1999):

1. Disease prevention, control and surveillance
2. Integrated data management
3. Reference and specialized testing
4. Environmental health and protection
5. Food safety
6. Laboratory improvement and regulation
7. Policy development
8. Emergency response
9. Public health related research
10. Training and education
11. Partnerships and communication

Common terms used in this section:

APHL = Association of Public Health Laboratories

CDC = Centers for Disease Control and Prevention

DATCP = Wisconsin Department of Agriculture, Trade and Consumer Protection

DNR = Wisconsin Department of Natural Resources

DPH = Wisconsin Division of Public Health

DWD = Wisconsin Department of Workforce Development

OSHA = Occupational Safety and Health Administration

USDA = U.S. Department of Agriculture

USEPA = U.S. Environmental Protection Agency

USGS = U.S. Geological Survey

UW = University of Wisconsin

WOHL = Wisconsin Occupational Health Laboratory

WSLH = Wisconsin State Laboratory of Hygiene

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2006	What do Partners Provide?
Alliance for the Polyurethane Industry	<ul style="list-style-type: none"> • Manufacturers of chemicals used for spray truck bed liners, such as Bayer and the companies that franchise the systems such as line-X, Rhino etc. • OSHA Region V • All of OSHA Consultation Region V 	<ul style="list-style-type: none"> • Agreement signed July 12, 2005 • Working on training and education on safe application of truck bed liners containing isocyanates, best practices, model respiratory protection program, case studies, and dissemination through the industry 	<ul style="list-style-type: none"> • Alliance for the Polyurethane Industry
Ambient and Workplace Air Program	<ul style="list-style-type: none"> • NIOSH • OSHA • MSHA • ASTM 	<ul style="list-style-type: none"> • Reviewed NIOSH updated silica method for use in NMAM • Submitted WOHL metals method for use in next NMAM • Three staff members joined ASTM Committees 	<ul style="list-style-type: none"> • Technical expertise • Method development • Analytical capability • Program funding
American Foundry Society (AFS)	<ul style="list-style-type: none"> • American Foundry Society • WSLH OSHA Health Consultation Program 	<ul style="list-style-type: none"> • Jim Barry of OSHA Health Consultation co-chaired the annual Environment Health & Safety Conference • Jim Barry is also a member of the AFS 10Q standing committee on industrial hygiene 	<ul style="list-style-type: none"> • AFS provides a national forum to provide information to their members on health and safety issues in foundries, research on metallurgy issues and other areas affecting foundries • OSHA Health Consultation Program provides industrial hygiene expertise, liaison with OSHA on AFS issues, inclusion of a number of foundry issues in our OSHA performance plan
Associated Building Contractors (ABC) of Wisconsin	<ul style="list-style-type: none"> • Four OSHA area offices • Associated Building Contractors of Wisconsin • Department of Commerce Safety Consultation Program • WSLH OSHA Health Consultation Program 	<ul style="list-style-type: none"> • Four companies are in the highest or platinum level of attainment for safety and health • A few more companies are at the lower levels 	<ul style="list-style-type: none"> • OSHA provides formal framework for the partnership, CAS support and expertise • ABC-WI markets the program to its members • This is similar to the Milwaukee AGC partnership • The OSHA safety Consultation Program provides on-site inspections and qualification inspections • Health Consultation provides IH services as requested

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2006	What do Partners Provide?
Associated General Contractors (AGC) - Milwaukee, Wis.	<ul style="list-style-type: none"> • All four OSHA Area offices • Associated General Contractors of Milwaukee • Department of Commerce Safety Consultation Program • WSLH OSHA Health Consultation Program 	<ul style="list-style-type: none"> • Two companies have signed on to the agreement at Five Star level, one at 3 STAR level • Higher level requires comprehensive qualifying inspection, provided by Safety Consultation and Health for health issues • All levels require exemplary safety and health program management, upgrading of sub-contractors • Overall goal is to decrease worker injuries and illnesses 	<ul style="list-style-type: none"> • OSHA provides the formal framework for this partnership which is modeled on a national AGC agreement • Participating companies sign on to using agreement
Association of Practitioners of Infection Control (APIC)	<ul style="list-style-type: none"> • Four chapters of the Association of Practitioners of Infection Control in Wisconsin • WSLH OSHA Health Consultation Program 	<ul style="list-style-type: none"> • Provided fit testing demonstration and training for three of the four chapters • Provided OSHA update information to meetings of all of the APIC chapters 	<ul style="list-style-type: none"> • APIC provides current infection control information, also provide entry to the infection-control community statewide and a mechanism for dissemination of OSHA information to their members • OSHA Health Consultation provides updates on OSHA issues as it affects their institutions
Beach Holding Time Study	<ul style="list-style-type: none"> • CSC Biology Studies Group 	<ul style="list-style-type: none"> • Evaluate holding times for <i>E.coli</i> and <i>Enterococci</i> in beach samples 	<ul style="list-style-type: none"> • Lab Supplies • Technical Assistance
Beaver Dam Medical Office Building	<ul style="list-style-type: none"> • M.A. Mortenson Construction Company • Madison OSHA • Wisconsin Health & Safety Consultation 	<ul style="list-style-type: none"> • Agreement signed July 6, 2005 • Monthly site walk through and safety meetings with sub-contractors • Correction of all hazards found • Review of data and near misses for past month • Monitoring for Pb, Si, and noise. • Training on a variety of OSHA topics 	<ul style="list-style-type: none"> • Beaver Dam Medical Office Building
Cancer Control and Detection Program	<ul style="list-style-type: none"> • UW Department of Pediatrics • UW Waisman Center 	<ul style="list-style-type: none"> • Methods established • In process of applying for NIH grant 	<ul style="list-style-type: none"> • Providing study subjects and clinical evaluation

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2006	What do Partners Provide?
Cancer Control and Detection Program	<ul style="list-style-type: none"> • Wayne State University • University of Cambridge • University of South Alabama • Hutzel Hospital 	<ul style="list-style-type: none"> • Original research completed 	<ul style="list-style-type: none"> • Each partner provided certain cases with clinical profile
Cancer Control and Detection Program	<ul style="list-style-type: none"> • Dane County Cytology Center 	<ul style="list-style-type: none"> • On-site training for students in the School of Cytotechnology 	<ul style="list-style-type: none"> • Hands on training • Space for students • Instruction time and support
Cancer Control and Detection Program	<ul style="list-style-type: none"> • Dr. Breslin • Dr. Kennedy 	<ul style="list-style-type: none"> • Topo2 amplification to measure therapy outcomes 	<ul style="list-style-type: none"> • Funding • Research opportunity
Cancer Control and Detection Program	<ul style="list-style-type: none"> • Dr. Sanchez • Dr. Jerome Gee 	<ul style="list-style-type: none"> • Urovision-bladder cancer 	<ul style="list-style-type: none"> • Funding • Data
Cancer Control and Detection Program	<ul style="list-style-type: none"> • Dr. Shaaban (UW) • Dr. Kalil (UW) • Drs. Maya Mitalova (Univ. of Georgia) • Dr. Steven Stice (Univ. of Georgia) • Dr. R. Lanza (Inst. For Cell Technology) • Dr. Shoukhrat Mitalova (Oregon Primate Ctr.) • Dr. Cibelli (Mich. State) 	<ul style="list-style-type: none"> • Analysis of cell lines 	<ul style="list-style-type: none"> • Funding • Research and publications
Cancer Control and Detection Program	<ul style="list-style-type: none"> • UW Hospital and Clinics 	<ul style="list-style-type: none"> • On-site training for students in the School of Cytotechnology 	<ul style="list-style-type: none"> • Hands-on training • Space and instructor • Time and support
Cancer Control and Detection Program – Stratatech	<ul style="list-style-type: none"> • Lynn Allen-Hoffman and staff 	<ul style="list-style-type: none"> • Performed both cytogenetic analysis and fluorescent in situ hybridization (FISH) studies on six of their cell lines • This has identified key cytogenetic changes due to various manipulations. 	<ul style="list-style-type: none"> • They have provided specimens which have been paid for
Cancer Control and Detection Program – Tobacco Research Council	<ul style="list-style-type: none"> • David Lawrence 	<ul style="list-style-type: none"> • Extracted DNA to facilitate their research 	<ul style="list-style-type: none"> • Funding
Cancer Control and Detection Program – Training samples	<ul style="list-style-type: none"> • Dane County Cytology Center 	<ul style="list-style-type: none"> • Agreement reached which allows the School of Cytotechnology to use sample materials for teaching 	<ul style="list-style-type: none"> • Access to specimens • Ability to use samples as teaching materials

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2006	What do Partners Provide?
Cancer Control and Detection Program – University of Wisconsin Hospital and Medical School	<ul style="list-style-type: none"> • Dr. Shariar Salamat 	<ul style="list-style-type: none"> • Studied a number of patients with brain tumors • Developed a mechanism for identification of patients who have oligodendriogliomas which have a good response to therapy 	<ul style="list-style-type: none"> • Funding and research opportunity
Cancer Control and Detection Program – WiCell	<ul style="list-style-type: none"> • James Thomson and staff 	<ul style="list-style-type: none"> • Provided cytogenetic and FISH analyses supporting their research and quality control 	<ul style="list-style-type: none"> • Provided funding and research opportunity
Clinical Metals Toxicity Program – Blood Lead Laboratory Reference System	<ul style="list-style-type: none"> • CDC 	<ul style="list-style-type: none"> • Characterized blood provided to partner for program assessments 	<ul style="list-style-type: none"> • Support for PT program administered by WSLH
Clinical Metals Toxicity Program – LeadCare analyzer performance evaluation	<ul style="list-style-type: none"> • Environmental Science Associates Inc. 	<ul style="list-style-type: none"> • Enrollment of new labs in evaluation program • Initiated cooperative evaluation of instrument prototype. 	<ul style="list-style-type: none"> • Testing services • Lab supplies • Shared experiments • Data evaluation
Clinical Metals Toxicity Program – Metals and EP proficiency value assignment	<ul style="list-style-type: none"> • New York Department of Public Health • Pennsylvania Department of Public Health • Centre de Toxicologie du Québec 	<ul style="list-style-type: none"> • Accurate value assignment for >100 laboratory evaluation specimens • Investigation of analytical issues. 	<ul style="list-style-type: none"> • Reference data and blood specimens • Broader consensus on analytical issues

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2006	What do Partners Provide?
Community Acquired Pathogens (CAP) Program – Education/Training	<ul style="list-style-type: none"> • Clinical laboratories • DPH • CDC • UW • National Laboratory Training Network • Wisconsin Clinical Laboratory Technical Advisory Group 	<ul style="list-style-type: none"> • Teleconferences on upcoming influenza season, other agents • Mailings to rapid test sites, annual virology laboratory conference, lab guidance for avian influenza • Provided six regional meetings on Emergency Response • Provided two proficiency testing exercises and one shipping exercise to laboratories • Distributed Wisconsin Emergency Response Guide for Clinical Laboratories, Bench Guide for Bioterrorism Agents, Packaging Clinical Laboratory Samples for Domestic Transport Training Manual 	<ul style="list-style-type: none"> • Labs – venues, feedback • DPH, CDC – Expertise • UW – Facilities
Community Acquired Pathogens (CAP) Program – Emergency/Outbreak Response	<ul style="list-style-type: none"> • Wisconsin Laboratory Response Network (WLRN) laboratories • LPHDs • DATCP-BLS • WVDL • DPH • CDC 	<ul style="list-style-type: none"> • Continued response to BT events/concerns • Provided testing and laboratory support for avian influenza surveillance • Developed 2006-07 BT and HRSA funding proposals • Performed lab site visits • Maintained lab messaging system 	<ul style="list-style-type: none"> • Labs – Laboratory capacity and specimen collection/transport • LPHDs – Specimen collection/transport • DPH – Epidemiologic expertise and guidance • CDC – Technical expertise
Community Acquired Pathogens (CAP) Program – Research	<ul style="list-style-type: none"> • UW researchers • Wisconsin clinicians (Childhood Origins of Asthma Project) 	<ul style="list-style-type: none"> • Performed lab support for investigation of potential triggers for asthma in Wisconsin children 	<ul style="list-style-type: none"> • UW-Researchers – specimens and clinical data • Wisconsin clinicians – access to patients
Community Acquired Pathogens (CAP) Program – Surveillance	<ul style="list-style-type: none"> • Wisconsin's 10 Virology Laboratories • Approximately 100 rapid influenza/RSV /Rota test sites • Clinicians • DPH 	<ul style="list-style-type: none"> • Provided laboratory-based surveillance for viral diseases, including influenza and avian influenza • Developed funding requests for 2006–07 influenza surveillance 	<ul style="list-style-type: none"> • Labs, rapid test sites, clinicians-data, and specimens/isolates • Conduit for information from CDC, WDPH & WSLH to colleagues • DPH-epidemiologic expertise, coordination of influenza surveillance and ELC funding

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2006	What do Partners Provide?
Cystic Fibrosis - Celtic Bone Study	<ul style="list-style-type: none"> • UW Medical School 	<ul style="list-style-type: none"> • Completed an elemental profile of ancient Celtic bones to evaluate anthropogenic exposure to toxic metals 	<ul style="list-style-type: none"> • Medical school provided specimens, DNA analysis and data evaluation
Department of Agriculture, Trade and Consumer Protection (DATCP)	<ul style="list-style-type: none"> • DATCP veterinarian • Veterinarian emergency response group • DPH • WSLH OSHA Health Consultation Program 	<ul style="list-style-type: none"> • Initial training to the veterinarian emergency response group (avian influenza, etc.) on respirator selection and fit testing, quantitative, using a porta-count 	<ul style="list-style-type: none"> • DATCP veterinarian heads emergency response effort with experience at Ft. Detrick and has organized the group of veterinarians to respond statewide • DPH epidemiologists have been involved in the planning • Veterinarian response group provides the field expertise and response • OSHA Health Consultation provides expertise and hands on training on respirator fit testing and selection
Department of Workforce Development, Workers Compensation Division	<ul style="list-style-type: none"> • DWD • OSHA Madison • Insurance providers • DOA • Other associations depending on topic chosen 	<ul style="list-style-type: none"> • Safety and health flip chart for managers training younger workers in the restaurant industry • Distributed through the WI Restaurant Association, the DPH, Insurance carriers and others • Current topic is safe resident handling in nursing homes and assisted living 	<ul style="list-style-type: none"> • DWD provided data for targeting the industry, DWD, DPH, OSHA and consultation provided expertise in developing the flip chart • Insurance industry provided data and funded the printing of the final product • The associations and DPH provided distribution of the product • Safe resident handling public service announcements were made on the radio state wide targeted to residents, families and healthcare workers
Detection of <i>Helicobacter pylori</i> in private Wisconsin wells	<ul style="list-style-type: none"> • US Environmental Protection Agency • Dr. Keya Sen 	<ul style="list-style-type: none"> • Molecular analysis of water for presence of <i>Helicobacter pylori</i> 	<ul style="list-style-type: none"> • Technical expertise • Lab methods

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2006	What do Partners Provide?
Division of Public Health (Wisconsin Department of Health and Family Services)	<ul style="list-style-type: none"> • WSLH OSHA Health Consultation Program • Division of Public Health 	<ul style="list-style-type: none"> • Completion of satellite project to connect the state HazMat teams (7 of the 8) to the Internet • WSLH for higher level analysis of field data 	<ul style="list-style-type: none"> • DPH provides the occupational surveillance programs of FACE, ABLES, the occupational indicators, occupational asthma, and dermatitis • The WSLH OSHA Health Consultation Program provides a field component for all of these programs where the issues of Pb, occupational fatalities, occupational asthma, occupational dermatitis and other occupational diseases are addressed in our field studies • In training, adding these areas to our goals for our OSHA grant • Providing engineering expertise for advice to the FACE program and providing a liaison to federal OSHA
Drinking Water Quality	University of Wisconsin-Madison Geology Department	<ul style="list-style-type: none"> • Developed HPLC-MS/MS method for endocrine disruptors, pharmaceuticals, and personal care products • Made method available for drinking water analysis 	<ul style="list-style-type: none"> • Funding • Technical Expertise
Drinking Water Quality	• U.S. Environmental Protection Agency	• Information sharing	<ul style="list-style-type: none"> • Testing • Knowledge
Drinking Water Quality	<ul style="list-style-type: none"> • American Water Works Association Research Foundation (AWWARF) • Southern Nevada Water Authority 	• Performed E-screen assays for endocrine disruptors	<ul style="list-style-type: none"> • AWWARF funding • SNWA coordinates the project and sends samples to WSLH
Drinking Water Quality and Emergency Response Training	• Wisconsin Rural Water Association	• Six workshops - "Responding to Water Contamination Events"	<ul style="list-style-type: none"> • Organized, scheduled and sessions • Coordinated all speakers • Facilitated sessions
Drinking Water Quality Program - <i>Mycobacterium avium</i> project	<ul style="list-style-type: none"> • Michael Collins UW School of Veterinary Medicine • Greg Harrington, UW CEE • AWWARF 	• Received funding for development of detection methods for <i>Mycobacterium avium</i> complex organisms in water and biofilm samples	<ul style="list-style-type: none"> • Funding • Report writing • Technical expertise • Personnel

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Drinking Water Quality Program – Pathogen Removal Study	• Greg Harrington and grad students in UW CEE department	• Received funding from AWWARF for pathogen removal study	• Report writing • Testing facilities • Personnel
Drinking Water Quality - Training Technologies	• Wisconsin Water Association	• One workshop - "Technology for Creating Utility Training"	• Organized, scheduled and sessions • Coordinated all speakers • Facilitated sessions
Ecosystem Quality	• CSC Biology Studies Group	• Validate new methods for E. coli and enterococci	• Technical assistance • Laboratory supplies
Ecosystem Quality - Advanced ICP Training	• Wisconsin Environmental Laboratories Association (WELA)	• One training workshop - "Advanced ICP Tips and Techniques"	• WELA member labs analyzed challenge sample and provided partial funding
Ecosystem Quality - BOD Training	• Wisconsin Wastewater Operators Association (WWOA)	• Six training workshops - "BOD 201: Advanced Techniques and Troubleshooting"	• WWOA handled registration and advertising
Ecosystem Quality Program – Bioavailability of Mercury in Precipitation, Dry Deposition, and Urban Runoff	• UW EC & T Dept – Chris Babiarz and Jamie Schauer, Biomonitoring Team	• Experimental design	• Mercury expertise • Project oversight
Ecosystem Quality Program – Blue Green Algae Survey	• DNR • DHFS • Waukesha County • Dane County • Dawn Karner	• 34 lakes and ponds surveyed for presence/absence for blue green algae species	• Funding • Sample collection
Ecosystem Quality Program – Factors Regulating the Interactions of Trace Metals and Aquatic Organisms in Watersheds of the Great Lakes	• UW EC & T Department - Martin Shafer and Dave Armstrong, Biomonitoring Team	• Determined relevant bioassays • Planned field work • Trained grad students	• Metals expertise • Project oversight
Ecosystem Quality Program – Improved Measurement of Exposure to PM2.5	• Univ of Colorado – Mike Hannigan and Jamie Schauer, Biomonitoring Team	• Experimental design • Hired post-doc	• Air pollution expertise • Samples

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Ecosystem Quality - Particle size evaluation of water column samples	<ul style="list-style-type: none"> • US Geological Survey • DNR Non-point Source staff 	<ul style="list-style-type: none"> • Continued fine-tuning process to measure particle size distribution in water column samples using a combination of laser, Coulter Counter, sieving and micro-filtration 	<ul style="list-style-type: none"> • USGS and DNR provide technical guidance and goals • WSLH provided the analytical expertise, approach and instrumentation to meet their goals • USGS and DNR also provided funding to support the R&D work
Ecosystem Quality - E. coli Outreach	<ul style="list-style-type: none"> • APHL • Minnesota Department of Health • National Laboratory Training Network 	<ul style="list-style-type: none"> • National teleconference on E. coli detection in beach water samples was held on May 31, 2006 	<ul style="list-style-type: none"> • APHL provided CEUs & CDs for participants • NLTN - conferencing • MDH - coordination • WSLH - material & presentation
E. coli Detection in Beach Water	<ul style="list-style-type: none"> • Minnesota Department of Health • National Laboratory Training Network 	<ul style="list-style-type: none"> • Seminar on beach water testing via live webcast to 39 states and Mexico 	<ul style="list-style-type: none"> • Funding • Advertising • Communication facilities
Food and Waterborne Diseases Program – DPDx: Online Diagnostic Assistance Program	<ul style="list-style-type: none"> • CDC – Division of Parasitic Diseases • Division of Public Health • Wisconsin Clinical Laboratories 	<ul style="list-style-type: none"> • Milwaukee City Health Department (MCHD) purchased equipment for DPDx system • Continued to provide reference diagnostic testing for unusual and difficult clinical cases 	<ul style="list-style-type: none"> • CDC – Expertise and technical guidance • WI Clinical Labs – Specimens, complete case histories to aid in diagnoses • MCHD will provide a regional online diagnostic testing site in Milwaukee area
Food and Waterborne Diseases Program – Food Testing	<ul style="list-style-type: none"> • DATCP Lab • Division of Public Health 	<ul style="list-style-type: none"> • Specimens tested in support of outbreak investigations 	<ul style="list-style-type: none"> • DATCAP – Testing expertise • DPH – Coordination, EPI investigations and information dissemination
Food and Waterborne Diseases Program – SHIELD Program: Shiga Toxin Epidemiology and Laboratory Detection Surveillance Program	<ul style="list-style-type: none"> • CDC • Division of Public Health • Wisconsin Clinical Laboratories 	<ul style="list-style-type: none"> • Detected 21 bacterial isolates (non-<i>E. coli</i> O157:H7) that produced shiga toxins 1 and/or 2 • Presented teleconference on shiga toxin-producing <i>E. coli</i> to state clinical laboratories 	<ul style="list-style-type: none"> • CDC – Expertise, technical guidance, PCR testing workshop and isolate serotyping • WI clinical labs – Specimens, complete case histories to aid in epi studies • DPH – coordination, epi investigations and information dissemination

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Food and Waterborne Diseases Program – Veterinary Enteric Pathogens Program	<ul style="list-style-type: none"> • CDC • Division of Public Health • Wisconsin Veterinary Diagnostics Laboratory (WVDL) 	<ul style="list-style-type: none"> • Number of animal isolates of Salmonella, Campylobacter, and Listeria submitted 	<ul style="list-style-type: none"> • CDC – Funding, expertise, technical guidance • DPH – Coordination, epi investigations, information dissemination • WVDL – Veterinary expertise, isolates, antimicrobial resistance data, epi data
Food and Waterborne Diseases Program – Wisconsin Enteric Pathogens Program	<ul style="list-style-type: none"> • CDC • Division of Public Health • Wisconsin Clinical Laboratories 	<ul style="list-style-type: none"> • Number of enteric pathogens submitted for identification, serotyping, subtyping, and antimicrobial resistance testing 	<ul style="list-style-type: none"> • CDC – Funding, expertise and technical guidance
Forensic Toxicology Program - Alcohol Reporting	<ul style="list-style-type: none"> • Wisconsin Department of Transportation (WISDOT) 	<ul style="list-style-type: none"> • Implemented new test request forms and Cohort, reporting system, eliminating typewritten reports • New printing and scanning equipment purchased to develop scanned reporting system • Implementation delayed 	<ul style="list-style-type: none"> • Funding • Oversight
Forensic Toxicology Program - Drug Recognition Expert Program	<ul style="list-style-type: none"> • WISDOT Bureau of Transportation Safety 	<ul style="list-style-type: none"> • Continued development of new data tracking procedures • Training for 24 new Drug Recognition Expert (DRE) officers • Attended Annual National IACP-DEC Mtg. 	<ul style="list-style-type: none"> • Funding • Program oversight • Training
Forensic Toxicology Program – Law Enforcement/ Attorney /Judge Education	<ul style="list-style-type: none"> • UW Law School Resource Center for Impaired Driving 	<ul style="list-style-type: none"> • Sixteen presentations on alcohol- and drugged-driving impairment at thirteen conferences/ training sessions 	<ul style="list-style-type: none"> • Funding
Forensic Toxicology Program - ROSITA 2 Oral Fluid Drug Detection Research	<ul style="list-style-type: none"> • J. Michael Walsh Group, contractor for federally funded research 	<ul style="list-style-type: none"> • Completion of Phase I testing & data collection • Phase I report preparation • Phase II testing & data collection 	<ul style="list-style-type: none"> • Funding • Oversight • Data analysis • Publication of findings • WSLH provides training, coordination, blood and urine drug analysis

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Influenza Laboratory Surveillance Program – Antiviral Resistance Detection	<ul style="list-style-type: none"> • Wisconsin Division of Public Health • CDC • Wisconsin Virology Lab Network 	<ul style="list-style-type: none"> • Acquire pyrosequencing equipment and reagents • Validate testing protocols for detecting adamantane resistance among Wisconsin influenza surveillance isolates in future seasons, and among national isolates if requested by CDC 	<ul style="list-style-type: none"> • DPH and CDC provide influenza surveillance guidance and funding from the Pandemic Preparedness CDC Cooperative Agreement • WVLN provides surveillance isolates
Maternal and Child Health Program	<ul style="list-style-type: none"> • Wisconsin Division of Public Health 	<ul style="list-style-type: none"> • Received funding to provide prenatal testing to uninsured women through several community health clinics in Wisconsin since 1998 	<ul style="list-style-type: none"> • Funding • Data evaluation and follow-up
Maternal and Child Health Program	<ul style="list-style-type: none"> • Dr. Hermann – Milwaukee 	<ul style="list-style-type: none"> • FISH on aberrations 	<ul style="list-style-type: none"> • Funding • Research
Maternal and Child Health Program	<ul style="list-style-type: none"> • Dr. Martin - Rockford 	<ul style="list-style-type: none"> • Autism/FISH 	<ul style="list-style-type: none"> • Funding • Research
Maternal and Child Health Program	<ul style="list-style-type: none"> • Dr. Sowards, University of California 	<ul style="list-style-type: none"> • Downs syndrome – other chromosomal aberrations 	<ul style="list-style-type: none"> • Funding • Research
Maternal and Child Health Program	<ul style="list-style-type: none"> • Dr. Tom Jenkins, Meriter Hospital 	<ul style="list-style-type: none"> • Provided data re indications for prenatal testing 	<ul style="list-style-type: none"> • Reference data
Marble Institute of America	<ul style="list-style-type: none"> • Marble Institute of America • OSHA Region V • OSHA Cleveland office • OSHA Consultation in Wisconsin, Minnesota and Ohio 	<ul style="list-style-type: none"> • Agreement signed March 10, 2006 • Working on safe handling of slab stone and silica exposure, delivery of training curriculum for training for prevention of silicosis in stone industry, and variety of outreach goals 	<ul style="list-style-type: none"> • Marble Institute of America
Maternal and Child Health Program	<ul style="list-style-type: none"> • WAPC - their members are from different areas in Wisconsin though their state headquarters are in Madison 	<ul style="list-style-type: none"> • Revised the guidelines for perinatal care sent to all perinatal doctors and clinics in Wisconsin 	<ul style="list-style-type: none"> • Guidelines to clients sending us prenatal cases

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Maternal and Child Health/Genetic Disorders Program	<ul style="list-style-type: none"> • Waisman Center • UW Medical School • UW Grad School 	<ul style="list-style-type: none"> • Student training • Research testing • Improved patient care 	<ul style="list-style-type: none"> • Funding • Research opportunities
Methyl Mercury	<ul style="list-style-type: none"> • APHL Fellowship 	<ul style="list-style-type: none"> • Continued to develop and validate methods to measure methyl mercury in water, wastewater, tissue and sediment 	<ul style="list-style-type: none"> • WSLH provide analytical expertise and the APHL provide funding through a fellowship
Newborn Screening	<ul style="list-style-type: none"> • BioArray Solutions 	<ul style="list-style-type: none"> • Evaluation of new CF molecular testing assay 	<ul style="list-style-type: none"> • Technology • Training
Newborn Screening	<ul style="list-style-type: none"> • Third Wave 	<ul style="list-style-type: none"> • Evaluation of new CF molecular testing assay 	<ul style="list-style-type: none"> • Technology • Training
Newborn Screening Program	<ul style="list-style-type: none"> • Department of Health and Family Services 	<ul style="list-style-type: none"> • 69,549 newborns screened for congenital disorders • Increased disorders screened from 26 to 47 	<ul style="list-style-type: none"> • Funding • Policy development • Program oversight • Training
Nanotechnology Safety and Health	<ul style="list-style-type: none"> • UW Safety Department • Lafollette School of Public Affairs • UW School for Workers • Wisconsin Division of Public Health • UW Engineering school • WOHL • OSHA Consultation 	<ul style="list-style-type: none"> • Three meetings to begin planning efforts for a conference and to arrange opportunities for safety and health professionals to work in UW research labs where nano materials are produced and/or used 	<ul style="list-style-type: none"> • Expertise • Access to real world nanotechnology applications
Occupational Safety & Health and Census of Fatal Occupational Injuries - OSHA Data Collection	<ul style="list-style-type: none"> • DWD/WC • DOL/BLS • DOL/OSHA 	<ul style="list-style-type: none"> • Publish incident rates for calendar year 2005 on occupational injuries/illnesses • Publish numbers for calendar year 2005 on occupational fatalities • Supply OSHA with data on specific employers for worked related injuries/illnesses from the OSHA 300 logs 	<ul style="list-style-type: none"> • Funding • Program file access • Computer systems • System training when necessary • Computer support • Printing, mailings, forms and envelopes • Staff hands on training • National meetings & conferences

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
OSHA ergonomics foundry partnership	<ul style="list-style-type: none"> • OSHA Appleton Area Office • OSHA Region V ergonomics coordinator • 11 foundries in the Fox River Valley • WSLH OSHA Health Consultation Program 	<ul style="list-style-type: none"> • Development of best practices for difficult ergonomic issues facing the foundry group • Solutions/control technology developed at one foundry is transferred to all of the members of the group 	<ul style="list-style-type: none"> • Appleton OSHA provides framework and expertise • OSHA region V provides expertise • The foundries, having broken down confidentiality barriers, develop and provide best practices • OSHA Consultation provides expertise and is the data repository for the project.
Point/Non-point Source Pollution Program	<ul style="list-style-type: none"> • EPA /Dyn Corp 	<ul style="list-style-type: none"> • Validation of E.coli and Enterococci Methods 	<ul style="list-style-type: none"> • Funding • Technical assistance
Safety Health Achievement Recognition Program (SHARP (OSHA))	<ul style="list-style-type: none"> • WSLH OSHA Health Consultation Program • Department of Commence OSHA Safety Program • Federal OSHA • SHARP companies 	<ul style="list-style-type: none"> • Of 15 companies evaluated, seven achieved SHARP status 	<ul style="list-style-type: none"> • National OSHA consultation sets the parameters for qualification for SHARP including comprehensive safety & health inspections, correction of all hazards found • None of the 58 attributes of a comprehensive safety & health management system can be below a 2 on a rating scale of 0-3, injury & illness rates below the national average for their industry • Program manager walk through inspection for recommendation for SHARP • Region V OSHA grants approval, presents a letter and certificate and removes the company from federal OSHA inspection lists • Consultation presents the flag to the company
Sexually Transmitted Disease Program – Corrections Intake Screening Project	<ul style="list-style-type: none"> • Division of Public Health (DPH) • Department of Corrections (DOC) 	<ul style="list-style-type: none"> • Screened 3,937 incoming WI male inmates for chlamydia (CT) and gonorrhea (GC) using pooled testing, detecting 206 chlamydia and 16 gonorrhea infections • Screened 575 incoming female inmates, detecting 8 CT and 1 GC co-infection during the first 3 quarters of the fiscal year. • Provided summary reports of positive results to DOC. 	<ul style="list-style-type: none"> • DPH – Financial support, development of screening criteria • DOC – adherence to screening criteria, clinical aspects and follow-up

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Sexually Transmitted Disease Program – Region V Infertility Prevention Project	<ul style="list-style-type: none"> • State Labs and Public health departments from WI and five other states in the region (IL, IN, MI, MN, OH) • Health Care Education and Training (HCET) • CDC 	<ul style="list-style-type: none"> • Provided combined chlamydia and gonorrhea testing data from all six states to region and CDC • Provided analyzed data back to the states • Provided data and other information on laboratory testing to partners responsible for grant-writing and other related activities. • Reviewed strategic plan goals and set objectives for coming year 	<ul style="list-style-type: none"> • States, Labs – Data, collaboration, consensus on lab issues related to STD testing • HCET – Administrative, coordinate partners’ efforts • CDC – Funding, program guidance
Sexually Transmitted Disease Program – WI Infertility Prevention Project	<ul style="list-style-type: none"> • Planned Parenthood of Wisconsin • Wisconsin Family Planning Clinics • DPH (STD, Maternal & Child Health Programs) • UW Madison Health Services (informal) • Milwaukee Health Department Laboratory 	<ul style="list-style-type: none"> • Performed 54,962 chlamydia (CT) and 24,058 gonorrhea (GC) tests on women and men at risk, detecting 4,942 CT and 831 GC infections at WSLH • Improved adherence to selective screening criteria for CT/GC in family planning clinics by providing data and training to providers 	<ul style="list-style-type: none"> • Provider Partners – Clinical aspects including specimen and data collection/ handling • DPH – Funding, guidance on development of screening criteria
Solid and Hazardous Waste Program – Chemical Terrorism Response	<ul style="list-style-type: none"> • HazMat teams • 54th Civil Support Team • Local health departments • Environmental testing laboratories in Wisconsin 	<ul style="list-style-type: none"> • Finalize the WSLH Response Plan with the Chemical Terrorism Coordinator to define the programs role in emergency response 	<ul style="list-style-type: none"> • Information and cooperation in responding to emergency response events
State of Wisconsin Data Center	<ul style="list-style-type: none"> • M.A. Mortenson Construction Company • Madison OSHA • Wisconsin Health & Safety Consultation 	<ul style="list-style-type: none"> • Agreement signed September 1, 2005 • Monthly site walk through and safety meetings with sub-contractors • Correction of all hazards found • Review of data and near misses for past month • Monitoring for Pb, Si and noise • Training on a variety of OSHA topics 	<ul style="list-style-type: none"> • State of Wisconsin Data Center

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Tuberculosis Program – Assessment of laboratory performance for detection of TB by nucleic acid amplification (NAA) testing	<ul style="list-style-type: none"> • CDC 	<ul style="list-style-type: none"> • Produced two events for the assessment of performance of labs and commercial kits which use NAA for the direct detection of TB in patient specimens • Produced a survey of lab practices for NAA for TB 	<ul style="list-style-type: none"> • Funding • Assists in the evaluation of results • Preparation of performance reports • Technical presentations
Tuberculosis Program – CDC Genotyping	<ul style="list-style-type: none"> • CDC • DPH Tuberculosis Program • Regional Genotyping Lab at Michigan PHL • WMLN labs 	<ul style="list-style-type: none"> • Continued submission of <i>M. tuberculosis</i> isolates for the national universal TB-genotyping program 	<ul style="list-style-type: none"> • DPH epidemiologic expertise • 10-day turnaround time for genotyping results
Tuberculosis Program – TB Elimination Cooperative Agreement	<ul style="list-style-type: none"> • DPH-TB Control section • CDC Tuberculosis Program 	<ul style="list-style-type: none"> • Continued rapid testing of all smear-positive respiratory specimens using a nucleic acid amplification (NAA) test • Broadened NAA testing algorithm to include more smear-negative respiratory specimens and non-respiratory specimens for high-risk patients • Maintained turn-around-time objectives to report TB lab results 	<ul style="list-style-type: none"> • Financial support • TB case records data • DPH epidemiologic expertise
Tuberculosis Program – Wisconsin Mycobacteriology Laboratory Network (WMLN)	<ul style="list-style-type: none"> • Wisconsin's 32 laboratories that perform some level of testing for mycobacteria • DPH - Tuberculosis Program 	<ul style="list-style-type: none"> • Held a statewide conference • Provided forum for discussion of utility of new serology test for TB infection • Provided statewide lab based surveillance for all mycobacteria species and for TB drug susceptibility • Provided forum for discussion of new molecular methods for mycobacteriology 	<ul style="list-style-type: none"> • Surveillance data • TB isolates for state TB Repository • Conduit for transfer of information from WDPH and WSLH to WI clinicians and infection control personnel • Assessment of mycobacteriology laboratory testing and reporting issues • DPH epidemiologic expertise

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Weston-4	<ul style="list-style-type: none"> • Wisconsin Public Service Corporation • Black & Veatch • Washington Group • Appleton OSHA • Safety & Health Consultation 	<ul style="list-style-type: none"> • Agreement signed November 5, 2005 • Partnership for the construction of a 500 megawatt coal fired electric generation plant near Wausau • Monthly site walk through and safety meetings with sub-contractors • Correction of all hazards found • Review of data and near misses for past month • Monitoring for Pb, Si and noise • Training on a variety of OSHA topics. 	<ul style="list-style-type: none"> • Weston-4
Wisconsin Committee on Safe Patient/Resident Handling	<ul style="list-style-type: none"> • Seven insurance companies including; Amcomp, Diamond, Johnson, Murphy, Security, United Heartland, West Bend • BQA • OSHA • WI Assisted Living Assoc. • WAHSA • DHFS • WSLH OSHA Health Consultation Program • Mortenson, Matzell & Meldrum, Inc. 	<ul style="list-style-type: none"> • Collection and analysis of data on injuries and deciding to address the issues of resident handling in a variety of settings, not just nursing homes • A series of meetings with stakeholders scheduled in August 2005 • Agreement has been achieved on a curriculum • A statewide one day workshop on patient transfers is scheduled for August 2006 in Wausau 	<ul style="list-style-type: none"> • Insurance companies provide data and access to their members • OSHA provides ergonomics expertise and staffing of group & training • BQA provides understanding of the regulatory environment, • Associations provide buy-in and access to their members • DHFS includes BQA but also injury prevention and falls • WSLH OSHA Health Consultation provides ergonomics expertise and the provision of training and on-site consultation to these employers
Wisconsin Council of Safety	<ul style="list-style-type: none"> • All four OSHA Area Offices • Wisconsin Council of Safety (part of Wisconsin Manufacturers and Commerce) • Department of Commerce Safety Consultation Program • WSLH OSHA Health Consultation Program 	<ul style="list-style-type: none"> • This is an OSHA training alliance • In 2006 there were four OSHA topics chosen for training multiple sites across the state on a quarterly basis • In addition WSLH OSHA program taught a full day introduction to industrial hygiene course at the WCS annual Safety congress 	<ul style="list-style-type: none"> • OSHA provides the formal framework, staff to provide off-site training, usually a CAS or the Area Director • Consultation Programs provide staff to provide off site training • WCS markets the training sessions, arranges for site, meals, registration etc. and collects evaluations of the sessions • The composite data is returned to Alliance members

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Wisconsin Dental Association (WDA)	<ul style="list-style-type: none"> • All four OSHA Area Offices • Wisconsin Dental Association • WSLH OSHA Health Consultation Program 	<ul style="list-style-type: none"> • Meetings to help WDA and their members look at OSHA as a resource 	<ul style="list-style-type: none"> • WDA provides entry into the dental community and extensive expertise in this health care setting • OSHA provides resources and staff willing to train on OSHA issues • WSLH OSHA Health Consultation provides aggregate data from visits to over 400 dental offices across the state as well as expertise and staff for training
Wisconsin Occupational Health Nurses Association, South Central Chapter (WOHNA-SC)	<ul style="list-style-type: none"> • All four OSHA offices • WOHNA-SC • WSLH OSHA Health Consultation Program 	<ul style="list-style-type: none"> • This is a training alliance 	<ul style="list-style-type: none"> • OSHA provides the formal alliance framework as well as staff to speak • WOHNA-SC provides access to their membership, occupational health nursing expertise and organizational skills in sponsoring events • WSLH OSHA Consultation provides expertise and staff to speak on a variety of OSHA topics
Wisconsin Ready Mix Concrete Association (WRMCA)	<ul style="list-style-type: none"> • All four OSHA offices • Department of Commerce Safety Consultation • WSLH OSHA Health Consultation Program • WRMCA and their members 	<ul style="list-style-type: none"> • Training on silica and noise issues at their annual meeting • On-site consultations to ready mix companies • Work has begun work on a health & safety manual for the industry 	<ul style="list-style-type: none"> • OSHA has a special emphasis enforcement program in this area and also provides training assistance through the CAS and they have set the formal parameters of the Alliance and the expected products • OSHA consultation provides on-site consultation to members of the association, training and expertise • WRMCA provides entry to its membership, training opportunities which they arrange and manage, practical expertise for the industry

II. Publications in Peer-Reviewed Journals

Amer, S., Smieja, D., Loughrin, J., and Reichmann, L. "Determination of Beryllium Compounds by NIOSH 7303." *Journal of ASTM (American Society for Testing and Materials) International*, Nov./Dec. 2005; 2 (10).

Campbell, G., Mataczynski, J., Reisdorf, E., Powell, J., Martin, D., Lambert, A., Haupt, T., Davis, J., Lanciotti, R. "Second human case of Cache Valley virus disease." *Emerging Infectious Diseases*, May 2006;12(5):854-6.

Cochems, A., Harding, P., Johnson, W., and Liddicoat, L. "Abstract: Dextromethorphan Concentrations in Wisconsin Drivers." *Journal of Analytical Toxicology*, March 2006; p. 150.

Godhardt, J., Beheler, K., O'Connor, M., Whyte, T., Reisdorf, E., Ubl, S., Bochsler, P., Toohey-Kurth, K. "Evaluation of antigen-capture ELISA and immunohistochemical methods for avian surveillance of West Nile virus." *Journal of Veterinary Diagnostic Investigation*, January 2006;18(1):85-9.

Friedlander, S., Jackson, D., Gangnon, R., Evans, M., Li, Z., Roberg, K., Anderson, E., Carlson-Dakes, K., Adler, K., Gilbertson-White, S., Pappas, T., DaSilva, D., Tisler, C., Mikus, L., Rosenthal, L., Shult, P., Kirk, C., Reisdorf, E., Hoffjan, S, Gern, J., and Lemanske, R. "Viral infections, cytokine dysregulation, and the origins of childhood asthma and allergic diseases." *Pediatric Infectious Disease Journal* 24 Supplement, 2005; S170-176.

Karner, D., Shafer M., Hemming, J., and Sonzogni, W. "An Algal Probe for Copper Speciation in Marine Waters: Laboratory method development." *Environmental Toxicology and Chemistry*, April 2006.

Johnson, W., Harding P., Cochems, A., and Liddicoat, L. "Abstract: Zolpidem-Impaired Drivers in Wisconsin – Six Year Retrospective." *Journal of Analytical Toxicology*, March 2006; p. 160.

Lemanske, R., Jr., Jackson, D., Gangnon, R., Evans, M., Li, Z., Shult, P., Kirk, C., Reisdorf, E., Roberg, K., Anderson, E., Carlson-Dakes, K., Adler, K., Gilbertson-White, S., Pappas, T., Dasilva, D., Tisler, C., Gern, J. "Rhinovirus illnesses during infancy predict subsequent childhood wheezing." *Journal of Allergy and Clinical Immunology*, September 2005; 116(3):571-7.

Lemanske, R., Jackson, D., Gangnon, R., Evans, M., Li, Z., Shult, P., Kirk, C., Reisdorf, E., Roberg, K., Anderson, E., Carlson-Dakes, K., Adler, K., Gilbertsen-White, S., Pappas, T., DaSilva, D., Tisler, C., and Gern, J. "Rhinovirus illnesses during infancy predict subsequent childhood wheezing." *New England Journal of Medicine*, 2005.

Maksem, J., Bedrossian, C., Kurtycz, D., Sewell, S., Shalkham, J., Dhanwada, V., Lind, H., Bibbo, M., Weidmann, J., Kane, B., Fu, F. "Resolving ASCUS without recourse to HPV testing: Manual Reprocessing of Residual Automated Liquid-based Cytology (ALBC) material Using Manual Liquid-Based Cytology (MLBC)." *Diagnostic Cytopathology*, 2005; 33 (6): 434-440.

Varness, Allen and Hoffman. "Newborn Screening For Congenital Adrenal Hyperplasia has Reduced Sensitivity in Girls." *Journal of Pediatrics*, October 2005; pp 493- 498.

Yates, M., Malley, J., Rochelle, P. and Hoffman, R. "Effect of adenovirus resistance on UV disinfection requirements: A report on the state of adenovirus science." *Journal AWWA (American Water Works Association)*; 98(6): 93-106.

III. Other Publications

Hassemer, D., "Interlaboratory surveys to Assess Performance: More than Proficiency Testing." *Medical Laboratory Observer*, January 2006; pp. 20-25.

Kalscheur, D. "A Review of Ethanol Concentrations in Post-Mortem Matrices." *The Examiner, Wisconsin Coroner and Medical Examiner's Newsletter*, December 2006.

Kalscheur, D., Fritsch, T., Harding, P. "Blood/Breath and Beyond: A Breath vs. Blood Alcohol Concentration Comparison." *IACT Newsletter*, October 2005; pp. 7-11.

Schleis, D. "A PHP Eye for the Oracle Guy (Part One)." *ODTUG Technical Journal*, May 2006; pp. 6-10.

Tans-Kersten, J. and Klawitter, J. "The Wisconsin State Laboratory of Hygiene Mycobacteriology Laboratory". *Wisconsin Epi Express*, March 13, 2006; pp. 5-6.

IV. Research Papers in Progress

Bialk, H., Hedman, C., Castillo, A., and Pedersen, J. "Laccase-mediated Michael Addition of ¹⁵N-Sulfapyridine to a Model Humic Constituent." To be submitted in 2006 to *Environmental Science and Technology*.

Hedman, C., Popp, D., Hudziak, M., and Strebel, S. "Validation Study for the Analysis of Occupational Exposure to N-Nitrosamines by High-Performance Liquid Chromatography Coupled With Tandem Mass Spectrometry (HPLC-MS/MS)." To be submitted in 2006 to the *AIHA (American Industrial Hygiene Association) Journal*.

Hedman, C., Krick, W., Karner, D., Harrahy, E., Sonzogni, W. "Rapid Detection of Cyanobacterial Toxins in Surface Waters by High-Performance Liquid Chromatography-Tandem Mass Spectrometry (HPLC-MS/MS) With Direct Aqueous Injection." Submitted in 2006 to *Environmental Science and Technology*.

Hoffman R., Borchardt, M., Spencer, S., Marshall, M., and Wolk, D. "Development of methods for the detection of waterborne microsporidia." To be submitted to the *Journal of Water and Health*.

Kurtycz, D. "Cytologic Changes in Cervical Smears Associated with Use of Depo-Provera." To be submitted in 2006-07.

Kurtycz, D. "Manual Reprocessing of Residual Material from Liquid-Based Cytology." To be submitted in 2006-07.

Kurtycz, D. "Metastatic Primitive Neurectodermal Tumor Originating from Testicular Germ Cell Neoplasia Simultaneously Demonstrating t(1;22)(q24;q12) and I(12p) by Fluorescent in-situ Hybridization." Submitted for publication to *Diagnostic Cytopathology* (In Press).

Kurtycz, D. "The Significance of the High Risk Cervical Smear in Family Planning Clinics." To be submitted in 2006-07.

Selbig, W., Bannerman, R., and Bowman, G. "Improving the Accuracy of Sediment-Associated Constituent Concentrations in Whole-Water Samples by Wet-Sieving." Submitted in 2006 to the *Journal of the American Water Resources Association*.

Sotir, M., Cappozzo, D., Schmidt, C., Zastrow, J., Warshauer, D., Berg, J., Gabor, G., Monson, T., Post W., Davis, J. "A county-wide outbreak of pertussis – Wisconsin, 2003: Initial transmission in a high school weight room and subsequent substantial impact on the adolescent community." Manuscript in preparation in 2006.

Stanton, N., Fritsch, T., Gerghty, C., Verostek, M., Weiner, B., Parsons, P. "The Role of Proficiency Testing in the Detection and Resolution of Calibration Bias in the LeadCare Blood Lead Analyzer; Limitations of Peer Group Assessment." Submitted April 2006 to *Accreditation and Quality Assurance*.

Wareing, D., Hoffman, R., Collins, M., Powell, C., Duncanson, P., Pearson, J., and Sarian, T. "An automated immunomagnetic separation protocol for the isolation of *Legionella* species from water samples." To be submitted in 2006 to *Letters in Applied Microbiology*.

V. Papers Presented at Scientific Meetings

Baker, M. "Targeted Mutation Analysis by Tetra-primer ARMS-PCR in a Newborn Screening Program." National Newborn Screening and Genetics Symposium, October 2005; Portland, OR.

Baker, M., Hoffman, G., Rice, G., Calcar, V., Laessig, R., Kurtycz, D., Wolff, J. "Successful Early Molecular Screening of MSUD on Two At Risk Newborns in Wisconsin Newborn Screening Program." National Newborn Screening and Genetics Symposium, October 2005; Portland, OR.

Bowman, G. and Mealy, R. "Lab Reagent Water Concerns ... in Search of Ultra-pure Water." Annual Meeting of Wisconsin Laboratory Association, September 14-15, 2005; Wausau, WI; 50.

Cochems, A., Harding, P., Johnson, W., and Liddicoat, L. "Dextromethorphan Concentrations in Wisconsin Drivers." Society of Forensic Toxicologists-SOFT 2005, October 17-21, 2005; Nashville, TN.

Collins, M., and Hoffman, R. "Evaluation of Organisms Isolated using an Antibody-Based Detection Method for Waterborne *Escherichia coli* O157:H7." The 106th meeting of the American Society of Microbiology, May 2005; Orlando, FL.

Ellickson, K., Weissbach, A., and Worley, C. "Arsenic Speciation in the Kewaunee Marsh: Method Development and Analytical Results." 30th Annual Meeting of the American Water Resources Association, Wisconsin Section, March 2-3, 2006; Elkhart Lake, WI; 45.

Haight, N., Miller, P., Kurtycz, D., Shalkham, J., Stewart, J. "A Model of Resource Utilization for Public Health (Poster)." American Society of Cytopathology 53rd Annual Scientific Meeting, November 4-9, 2005; San Diego, CA.

Hoffman, G. "Analytic Quality Assurance/Control." National Newborn Screening and Genetics Symposium – APHL QA/QC Preconference Workshop, October 2005; Portland, OR.

Hoffman, G. "Screening for the Mild CFTR Mutations R117H 7T/9T Among Newborns in Wisconsin Significantly Increases the Detection of Non-Classic CF." National Newborn Screening and Genetics Symposium, October 2005; Portland, OR.

Hoffman, G. "Tandem Mass Spectrometry Screening for Isovaleryl CoA Dehydrogenase Deficiency (IVA) results in the Detection of 2-Methylbutyryl CoA Dehydrogenase Deficiency (2MBCD)." National Newborn Screening and Genetics Symposium, October 2005; Portland, OR.

Johnson, W., Harding, P., Cochems, A. and Liddicoat, L. "Zolpidem Impaired Drivers in Wisconsin – A Six Year Retrospective." Society of Forensic Toxicologists-SOFT 2005, October 17-21, 2005; Nashville, TN.

Kopish, G. "Evaluation of the InPlex CFTR ASRs for the Identification of CFTR Mutations from Dried Blood Spots Using Two Rapid DNA Extractions Methods (Poster)." National Newborn Screening and Genetics Symposium, October 2005; Portland, OR.

Lau, B., Harrington, G., Hoffman, R., and Borchardt, M. "LT2 Crypto Removal Credits: Are They Good Enough?" Proceedings of the 2005 Water Quality Technology Conference, 2005; Quebec City, Canada.

Liddicoat, L., and Harding, P. "Ambien – Drives Like a Dream? Case Studies of Zolpidem Impaired Drivers in Wisconsin." American Academy of Forensic Sciences 58th Annual Meeting, February 23, 2006; Seattle, WA.

Marshall, M., Hoffman, R., Sturbaum, G., and Wolk, D. "Statistical Model to Assess False Negative PCR Reactions from Water Matrices." Proceedings of the 2005 Water Quality Technology Conference, 2005; Quebec City, Canada.

Newman, A., Davis, J., Berg, J., Gabor, G., Hopfensperger, D., Warshauer, D., Wedig, M. "Nothing to cough at: A statewide epidemic of pertussis – Wisconsin, 2004." EIS (Epidemic Intelligence Service) Conference, April 24-28, 2005; Atlanta, GA.

Pfister, J., Hurie, M., Greer, J., Voermans, P., Haase, B., Burnett, D., Davis, J. "Evaluation of Targeted Hepatitis C Virus Screening of Inmates Admitted in 2004 to the Wisconsin Adult Correctional System." Presented at the National Viral Hepatitis Prevention Conference, December 8, 2005; Washington D.C.

Pfister J., and Voermans, P. "Addressing Hepatitis C in Corrections: A Corrections/Public Health/Academic Partnership." Presented at the conference "Hepatitis C: Collaboratively Confronting the Challenge", sponsored by the Michigan Department of Community Health and the American Liver Foundation, October 27, 2005; Ypsilanti, MI.

Reuth, J., Monson, T., Rauch, M., Warshauer, D. "Antimicrobial resistance trends in *Campylobacter jejuni* isolates in Wisconsin, 2004-2005." American Society for Microbiology 106th General Meeting, May 21-25, 2006; Orlando, FL.

Schleis, D. "Polish up Your Web Applications with Ajax." Oracle Development Tools User Group Kaleidoscope, June 17-21, 2006; Washington, D.C.

Wareing D., Sarian T., Duncanson P., Pearson J., Hoffman, R., Collins, M., and Powell, C. "Evaluation of Dynabeads Anti-Legionella® for the isolation and quantification of *Legionella* from water samples." Proceedings of the 2005 Water Quality Technology Conference, 2005; Quebec City, Canada.

Wilcox, J., Bahr, J., Hedman, C., and Bradbury, K. "Investigation of Hormone and Pharmaceutical Transport Through Unsaturated and Saturated Sediments Using Laboratory Column Experiments." American Water Resources Association, Wisconsin Section, March 2-3, 2006; Elkhart Lake, WI.

Woolever, N., Monson, T., Reisdorf, E., Warshauer, D. "Comparison of real-time PCR and culture for the laboratory diagnosis of *Bordetella pertussis* in a public health laboratory." American Society for Microbiology 106th General Meeting, May 21-25, 2006; Orlando, FL.

Yuroff, A., Hoffman, R., and Collins, M. "Efficient Enumeration of *Mycobacterium avium* Complex Bacteria: A comparison of MGIT, Flow Cytometry and ATP Assays." The 106th meeting of the American Society of Microbiology, May 2005; Orlando, FL.

Zhang, Y., Mann, L., Brown-Elliott, B., Janda, W., Schreckenberger, P., Warshauer, D., Jost, K., Jr., and Wallace, R. "Population study of *M. lentiflavum* isolates in the USA." American Society for Microbiology 106th General Meeting, May 21-25, 2006; Orlando, FL.

VI. Other Presentations

Note: Last number indicates number of people attending.

Anderson, G. and Kennedy-Parker, D. "State Laboratory of Hygiene and Wisconsin DNR Laboratory Certification Program Outreach." Booth at the Wisconsin Wastewater Operators Association Annual Conference, October 26-28, 2005; Wisconsin Dells, WI; 40.

Anderson, G., Kennedy-Parker, D., and Bowman, G. "State Laboratory of Hygiene Emergency Response Drinking Water Collection Kit." Informational booth at the 39th Annual Wisconsin Wastewater Operator's Association Conference, October 4-7, 2005; Green Bay, WI.

Cochems, A. and Liddicoat, L. "Toxicology Update." DRE/SFST Inservice Training 2005, November 17-18, 2005; Milwaukee, WI; 100.

Cochems, A. "Toxicology for the Drug Recognition Expert." Drug Recognition Expert (DRE) Training School, October 24, 2005; Fort McCoy, WI; 25.

Cochems, A. "Toxicology Update." DRE/SFST Inservice Training, January 3, 2006; Wausau, WI; 30.

Degenhardt, D. "Emergency Response Drinking Water Collection Kit." La Crosse HazMat Meeting; La Crosse, WI; 30.

Degenhardt, D. "Wisconsin State Laboratory of Hygiene Laboratory Capability-Chemical Testing." Federal Bureau of Investigation-Milwaukee Metro Weapons of Mass Destruction Working Group Meeting, March 9, 2006; Milwaukee, WI; 65.

Degenhardt, D. "Wisconsin State Laboratory of Hygiene Laboratory Capability-Chemical Testing and Laboratory Networks." Wisconsin Public Health Laboratory Network, April 28, 2006; Wisconsin Dells, WI; 20.

Fritsch, T. "LCSI: Wisconsin." Look Out for Lead (Conference), December 5-6, 2005; Madison, WI; 20.

Harding, P. "The Wisconsin Approach to Retrograde Extrapolation." Blood Alcohol Concentration Extrapolation Workshop, Society of Forensic Toxicologists, SOFT 2005, October 17, 2005; Nashville, TN; 150.

Harding, P. and Liddicoat, L. "Current Toxicology Issues." 7th Annual Prosecutor's Seminar on OWI, November 10-11, 2005; Elkhart Lake, WI; 80.

Harding, P. "Alcohol Curves, Charts and Calculations." 12th Annual Traffic and Impaired Driving Law Program, April 18, 2006; Appleton, WI; 42.

Harding, P. "The Wisconsin State Laboratory of Hygiene Approach to Retrograde Extrapolation and Analyst Training." International Association for Chemical Testing 19th Annual Conference, April 27, 2006; Anaheim, CA; 140.

Harding, P. "Implied Consent Blood Sampling." Rural Wisconsin Health Cooperative Lab Roundtable, June 7, 2006; Sauk City, WI; 21.

Harding, P. "Alcohol Toxicology." National District Attorneys Association – Lethal Weapon: DUI Homicide Course, June 26-30, 2006; Columbia, SC; 43.

Hassemer, D. and Burmeister, B. "WSLH Proficiency Testing." HealthTrust Purchasing Group, Laboratory Advisory Board, January 31, 2006; Nashville, TN; 22.

Hoffman, G. "Implementation of Newborn Screening for Cystic Fibrosis – The Wisconsin Experience." Florida Newborn Screening Advisory Group, March 15, 2006; Jacksonville, FL; 18.

Hoffman, G. "Implementation of Tandem Mass Spectrometry in a Newborn Screening Laboratory." Tandem Mass Spectrometry Training Course, November 17, 2005; Durham NC; 8.

Hoffman, G. "Implementation of Tandem Mass Spectrometry in a Newborn Screening Laboratory." Tandem Mass Spectrometry Training Course, March 14, 2006; Durham NC; 6.

Hoffman, G. "Newborn Screening – Past, Present, Future." Marshfield Genetic Clinic Symposium, April 28, 2006; Wisconsin Dells, WI; 44.

Hoffman, G. "Tandem Mass Spectrometry – Follow Up." Tandem Mass Spectrometry Training Course, December 8, 2005; Dallas TX; 7.

Hoffman, G. "Tandem Mass Spectrometry – Follow Up." Tandem Mass Spectrometry Training Course, April 20, 2006; Dallas TX; 6.

Kalscheur, D. "Disease and Drugs – Death Scene Pharmacology." Wisconsin Coroner's and Medical Examiner's Association January Conference, January 9-10, 2006; Wisconsin Rapids, WI; 100.

Kirk, C., and Klawitter, J. "Wisconsin Laboratory Response Network Training Update." Midwest Regional Meeting of State Training Coordinators, December 9, 2005; Chicago, IL.

Kirk, C. "Emergency Laboratory Response Activities in Wisconsin: An Overview." Rural Wisconsin Health Cooperative Lab Roundtable Meeting, October 5, 2005; Sauk City, WI.

Kirk, C. "Emergency Laboratory Response Activities in Wisconsin: An Overview." Shared Health Services Quarterly Lab Meeting, January 12, 2006; La Crosse, WI.

Kirk, C. "Influenza: The Role of the Wisconsin State Laboratory of Hygiene." Association of Professionals in Infection Control – Northeastern Wisconsin, March 3, 2006; Oshkosh, WI.

Kirk, C. "Pandemic Influenza: The Laboratory Response." Wisconsin Division of Public Health (WDPH) Bureau of Communicable Disease Spring Seminars, April 28, May 10-11, May 18-19, 2006; Oconomowoc, WI; Minocqua, WI; Eau Claire, WI; DePere, WI; Madison, WI.

Kirk, C. "Role of Clinical Laboratories in Pandemic Influenza Response." American Clinical Laboratory Association Panel Presentation, January 18, 2006; Washington, D.C.

Kirk, C. "What a Microbiologist Does at the Wisconsin State Laboratory of Hygiene." Verona Area Middle School Sixth-Grade Classes, March 24, 2006; Verona, WI.

Kurtycz, D., Stewart, J., Shalkham, J. "Creating a Good Image: Electronic Image Enhancement with Photoshop®." American Society of Cytopathology 53rd Annual Scientific Meeting, November 4-9, 2005; San Diego, CA; 40.

Kurtycz, D. "Introduction to FISH." University of Texas Health Science Center at San Antonio, Continuing Education for Laboratory Professionals, Teleconference Network of Texas, July 26, 2005; 300.

Kurtycz, D. "The Pain of Metaplasia" and "Cytology on the Web." Iowa Society of Cytology, October 7-8, 2005; Des Moines, IA; 40.

Leinweber, J. "Using PGP and GPG." Madison System Administrators Guild, October 20, 2005; Madison, WI; 12.

Leinweber, J. "Verifying Digital Signatures." Lockdown 2005, July 15, 2005; Madison, WI; 25.

Liddicoat, L. and Harding, P. "Marijuana and Alcohol: Impairment and Toxicology." Statewide Prosecutor Education and Training (SPET) Summer Conference, June 13, 2006; Green Lake, WI; 45.

Liddicoat, L. "Driving Impaired with Prescription Drugs." Juneau County Law Enforcement Legal Update Training, October 26, 2005; Mauston, WI; 30.

Liddicoat, L. "Driving Impaired with Prescription Drugs." Impaired Driving and Legal Update Training for Northcentral Technical College, December 9, 2005; Wausau, WI; 20.

Liddicoat, L. "Driving Impaired with Prescription Drugs." Impaired Driving and Legal Update for Waukesha County Technical College, December 13, 2005; Pewaukee, WI; 23.

Liddicoat, L. "Driving Impaired with Prescription Drugs." Impaired Driving and Legal Update for Milwaukee Area Technical College, January 26, 2006; Milwaukee, WI; 32.

Liddicoat, L. "Driving Impaired with Prescription Drugs." Impaired Driving and Legal Update for Western Wisconsin Technical College, February 28, 2006; Sparta, WI; 24.

Liddicoat, L. "Driving Impaired with Prescription Drugs." Impaired Driving and Legal Update for Chippewa Valley Technical College, March 30, 2006; Eau Claire, WI; 31.

Liddicoat, L. "Driving Impaired with Prescription Drugs." Impaired Driving and Legal Update for Southwest Wisconsin Technical College, April 7, 2006; Fennimore, WI; 51.

Liddicoat, L. "Driving Impaired with Prescription Drugs." Impaired Driving and Legal Update for Wisconsin Indianhead Technical College, May 11, 2006; Ashland, WI; 34.

Liddicoat, L. "Drugged Driving – Beyond Restricted Controlled Substances." Wisconsin Supreme Court 2005-2006 Municipal Judge Traffic Seminar, July 14, 2005; Oconomowoc, WI; 85.

Liddicoat, L. "Drugged Driving: Beyond Illicit Drugs." 31st Annual Governor's Conference on Highway Safety, August 17-18, 2005; Green Bay, WI; 35.

Liddicoat, L. "Drugged Driving: Beyond Illicit Substances." The 12th Annual IACP Training Conference on Drugs, Alcohol and Impaired Driving, June 15, 2006; Kansas City, MO; 600.

Liddicoat, L. "Impaired Driving: Ambien and Prescription Drugs." International Association for Chemical Testing 19th Annual Conference, April 26, 2006; Anaheim, CA; 140.

Liddicoat, L., Groves, D. and Trindl, R. "Prosecuting a Prescription Drugged Driving Case." 7th Annual Prosecutor's Seminar on OWI, November 10-11, 2005; Elkhart Lake, WI; 30.

Liddicoat, L. "Oral Fluid Research-Rosita 2." Oral Fluid-Research and Applications Workshop, Society of Forensic Toxicologists-SOFT 2005, October 18, 2005; Nashville, TN; 120.

Liddicoat, L. "Reefer Madness: Driving Under the Influence of THC." 12th Annual Traffic and Impaired Driving Law Program, April 18, 2006; Appleton, WI; 120.

Pfister, J. Region V Infertility Prevention Project (RVIPP) Geographic Information System (GIS) Project, June 29, 2006; Madison, WI.

Powell, J. "Fluorescence Microscopy." Laboratory Methods for Detecting Rabies, National Laboratory Training Network, January 23-27, 2006; Atlanta, GA; 30.

Powell, J. "Quality Assurance in the Rabies Laboratory." Laboratory Methods for Detecting Rabies, National Laboratory Training Network, January 23-27, 2006; Atlanta, GA; 30.

Powell, J. "Rabies Diagnosis and Specimen Submission." Agriculture 13 Training, Department of Agriculture, Trade and Consumer Protection, October 5, 2005; Wisconsin Dells, WI; 50.

Shalkham J., Kurtycz, D., Stewart, J. "Creating a Good Image: Electronic Image Enhancement with Photoshop." American Society of Cytopathology Meeting, November 9, 2005; San Diego, CA; 40.

Shalkham, J. "Professional Development for the Cytotechnologist: Career Ladders, Career Development and Beyond." American Society for Cytotechnology Meeting, April 9, 2006; Las Vegas, NV; 40.

Shult, P. "Analyzing Connections in Public Health Laboratory Preparedness." Public Health Preparedness Summit, February 22, 2006; Washington, D.C.; 30.

Shult, P. and Kirk, C. "Bioterrorism – It Isn't Just For Terrorists Anymore." American Society for Clinical Laboratory Science – Wisconsin 2006 State Convention, April 27, 2006; Eau Claire, WI.

Shult, P. and Kirk, C. "Influenza 2005: The Laboratory's Role in Pandemic Preparedness and Response." National Laboratory Training Network Teleconference, December 14, 2005; 5,174

Shult, P. and Kirk, C. "Rapid Influenza Tests in Wisconsin's Laboratory-Based Influenza Surveillance." Quidell Corporation Representatives, July 13, 2005; San Diego, CA.

Shult, P. and Kirk, C. "Uh-Oh! Case Studies in Laboratory Biosafety." Shared Health Services Image 2006 Annual Meeting, April 19, 2006; Wisconsin Dells, WI.

Shult, P. "Emerging Pathogens." 24th Annual Laboratory Medicine in Review, October 14, 2005; Marshfield, WI; 95.

Shult, P. "Pandemic Influenza." 2005 Ortho-Clinical Diagnostics Vitros Customer Seminar, September 28, 2005; Pewaukee, WI; 125.

Shult, P. "Role of the Public Health Laboratory in Response to Bioterrorism." Federal Bureau of Investigation (FBI) and Environmental Protection Agency (EPA) Update Conference, March 9, 2006; Milwaukee, WI; 65.

Spallato, A. "Emergency Response Drinking Water Collection Kit." Wisconsin Public Health Association Meeting, May 24-25, 2006; Wisconsin Dells, WI.

Stanton, N. "Laboratory Issues in Lead Poisoning." Conference on Lead Poisoning Prevention (presented for members of Chinese Centers for Disease Control), August 22-23, 2005; Chelmsford, MA; 25.

Warshauer, D. "Integration of clinical and public health laboratories for the betterment of public health." American Society for Microbiology National Teleconference, October 5, 2005.

Warshauer, D. "Viral Gastroenteritis." Virology Workshop, July 20, 2005; Madison, WI; 30.

Warshauer, D. and Kirk, C. "Wisconsin Laboratory Response Network Emergency Response Exercise – Overview of Results and Simulated Bioterrorism Agent." WLRN Teleconference, May 3, 2006; Madison, WI.

Warshauer, D. and Monson, T. "Parasitology 101: Intestinal Parasites." WLRN Teleconference, February 15, 2006; Madison, WI.

Warshauer, D. and Novicki, T. "Review of Fall 2005 Wisconsin Laboratory Response Network Exercise." WLRN Teleconference, November 16, 2005; Madison, WI.

VII. Programs, Workshops and Courses Presented by the WSLH

Bowman, G., Mealy, R. and Johnson, C. "The Role of Chlorine in Dealing with Water Contamination Events." Wisconsin Rural Water Association's "Responding to Waterborne Contamination Events" Workshops: August 3, 2005 – Madison, WI; August 4, 2005 – Waukesha, WI; August 10, 2005 – Rhinelander, WI; August 11, 2005 – Green Bay, WI; August 17, 2005 – Rice Lake, WI; August 18, 2005 – Onalaska, WI; 250.

Degenhardt, D. "Chemical Emergency Response Update." Regional Meetings of the Wisconsin Laboratory Response Network, March 28 – April 5, 2006; Oconomowoc, WI; Madison, WI; Rice Lake, WI; La Crosse, WI.

Kiesner, C. "Evaluation of the Multicode®-PLx for Detection Panel for Respiratory Viruses." Wisconsin Virology Conference (multiple presentations), June 29, 2006; Madison, WI.

Kirk, C. and Haupt, T. "Preparing for the Upcoming Respiratory Season." Wisconsin Laboratory Response Network Teleconference, October 19, 2005; Madison, WI.

Kirk, C. and Tans-Kersten, J. "Wisconsin Laboratory Response Network (WLRN) Update: 2004-05 Review and 2005-06 Preview." Wisconsin Laboratory Response Network Teleconference, August 24, 2005; Madison, WI.

Kirk, C. (Presenter and Facilitator). "Virology Laboratory Network Updates" and "Influenza: Avian Influenza Update and Pandemic Response Planning in the Virology Lab." Wisconsin Virology Conference, June 29, 2006; Madison, WI.

Kirk, C. (Presenter and Facilitator). "WLRN 2006: Overview of Activities" and "Developing a Pandemic Influenza Response Plan for Wisconsin Laboratories." Wisconsin Laboratory Response Network Regional Meetings, March 28, 29, April 4, 5, 11, 12, 2006; Oconomowoc, WI; Madison, WI; Green Bay, WI; Rice Lake, WI; La Crosse, WI; Wausau, WI.

Kirk, C. "Summary of BT Proficiency Exercise." Wisconsin Laboratory Response Network Teleconference, November 16, 2005 and May 3, 2006; Madison, WI.

Kurtycz, D. "Cytology Potpourri." Pathologist's Night Out, December 13, 2005.

Marshall, S. "Pyrosequencing: What It Is and What It Does." Wisconsin Virology Conference, June 29, 2006; Madison, WI.

Marshall, S. "Wisconsin Public Health Emergency Preparedness: A State and National Perspective, 2006 Update." Wisconsin Laboratory Response Network Regional Meeting, March 28, 2006; Oconomowoc, WI.

Monson, T. "WLRN 2006 Case Study." Wisconsin Laboratory Response Network Regional Meetings, March 28, 29, April 11, 12, 2006. Oconomowoc, WI; Madison, WI; Green Bay, WI; Wausau, WI.

Powell, J. "Rabies." WSLH Audioconference, June 21, 2006; Madison, WI.

Reisdorf, E. "CDC H5N1 PCR Training in Thailand." Wisconsin Virology Conference, June 29, 2006; Madison, WI.

Shult, P. "Emergency Response Protocol Review", "Wisconsin Public Health Emergency Preparedness: A State and National Perspective, 2006 Update", and "Developing a Pandemic Influenza Response Plan for Wisconsin Laboratories." Wisconsin Laboratory Response Network Regional Meetings, March 28, 29, April 4, 5, 11, 12, 2006; Oconomowoc, WI; Madison, WI; Green Bay, WI; Rice Lake, WI; La Crosse, WI; Wausau, WI.

Spallato, A. "Chemical Emergency Response Update." Regional Meetings of the Wisconsin Laboratory Response Network, April 3-4, 2006; Green Bay, WI; Wausau, WI.

Tans-Kersten, J. "WLRN 2006 Case Study." Wisconsin Laboratory Response Network Regional Meetings, April 4, 5, 2006; Rice Lake, WI; La Crosse, WI.

Wedig, M. "2005-06: The Year in Review." Wisconsin Virology Conference, June 29, 2006; Madison, WI.

Wedig, M. "HAN: Command Caller Overview and Demonstration." Wisconsin Laboratory Response Network Regional Meetings, March 28, 29, April 4, 5, 11, 12, 2006; Oconomowoc, WI; Madison, WI; Green Bay, WI; Rice Lake, WI; La Crosse, WI; Wausau, WI.

VIII. Programs, Workshops and Courses where the WSLH was a Co-Sponsor

Anderson, G., Bowman, G., Manix, M. and Mealy, R. "BOD 201: Advanced Techniques and Troubleshooting." Workshops sponsored by the Wisconsin State Laboratory of Hygiene, Department of Natural Resources Environmental Laboratory Certification Program and the Wisconsin Wastewater Operator's Association, April 26, 2006 - Green Bay, WI; May 4, 2006 - Fennimore, WI; May 9, 2006 - Watertown, WI; May 16, 2006 - Wausau, WI; May 23, 2006 - Eau Claire, WI; May 24, 2006 - Rice Lake, WI; 264.

Bowman, G. and Mealy, R. "Role of Chlorine in Dealing with Water Contamination." WSLH/Ortho Clinical Diagnostics, September 28, 2005; Waukesha, WI.

Burmeister, B., Hassemer, D., Laessig, R., Statz, P. "2006 WSLH/Dade Users Seminar." WSLH/Dade Behring, April 20, 2006; Waukesha, WI.

Gallagher, S., Statz, P. "2005 Ortho/WSLH Customer Seminar." WSLH/Ortho Clinical Diagnostics, September 28, 2005; Waukesha, WI.

Kennedy-Parker, D., Kaufman, K., Schultz, R., Bowman, G. and Mealy, R. "Advanced ICP Tips and Techniques." Workshop sponsored by the Wisconsin State Laboratory of Hygiene, Department of Natural Resources Environmental Laboratory Certification Program and the Wisconsin Environmental Laboratories Association, November 15, 2005, Madison, WI; 68.

Kirk, C. "Methods Comparison for Respiratory Viruses", "Rapid Flu Tests: Demo, Performance Criteria and Surveillance Implications", and "Laboratory Exercises." Virology Methods for Public Health Laboratories Workshop, July 18, 2005-July 22, 2005; Madison, WI.

McDonald, R. "WSLH Update." Teleconference to Wisconsin Family Planning Clinics, Co-sponsored by Wisconsin Division of Public Health/Family Planning Program, November 15, 2005; Madison, WI; 50.

McDonald, R. "WSLH Update - Feedback from the Lab to Clinics." Teleconference to Wisconsin Family Planning Clinics, Co-sponsored by Wisconsin Division of Public Health/Family Planning Program, April 18, 2006; Madison, WI; 50.

Reisdorf, E. "Cell Culture 101", "QC in Virology", "Rapid Flu Tests: Demo, Performance Criteria and Surveillance Implications", and "Laboratory Exercises." Virology Methods for Public Health Laboratories Workshop, July 18, 2005-July 22, 2005; Madison, WI.

Shult, P. "Overview of Respiratory Viruses", "Rapid Flu Tests: Demo, Performance Criteria and Surveillance Implications" and "Vaccine Preventable Viruses." Virology Methods for Public Health Laboratories Workshop, July 18, 2005-July 22, 2005; Madison, WI.

Tans-Kersten, J. Wisconsin Mycobacteriology Lab Network Annual Meeting, November 8, 2005; Madison, WI.

Warshauer, D. "Overview of Gastroenteritis Viruses." Virology Methods for Public Health Laboratories Workshop, July 18, 2005-July 22, 2005; Madison, WI.

IX. University Courses Taught or Lectures Presented

Note: Last number listed indicates number of people attending.

Bowman, G., and Mealy, R. (Wisconsin Department of Natural Resources Laboratory Certification Program). Chemical Engineering 501, Water Analysis, "BOD5: The Test Everyone Loves to Hate." September 28-30, 2005; 40.

Burk, T. UW-Whitewater Safety Studies Class, "Introduction to an IH Laboratory." Dec 6, 2005; 15.

Chen, M. Pathology Resident rotating through the WSLH, "Syphilis." August 31, 2005; 1 (Sara Hughes).

Chen, M. Pathology Resident rotating through the WSLH, "Syphilis." October 25, 2005; 1 (Haipeng, Shao).

Chen, M. Pathology Resident rotating through the WSLH, "Syphilis TP-PA." April 24, 2006; 1 (Johnny Hu).

Eglsaer, P. and Powell, C. Clinical Laboratory Science (CLS) 536 Infectious Diseases, "Bioaerosols." March 10, 2006; 30.

Haase, B. Clinical Laboratory Science 536, "Human Immunodeficiency Virus." May 3, 2005; 24.

Haase, B. Clinical Laboratory Science 536, "Viral Hepatitis." April 19, 2005; 24.

Haase, B. Medical Microbiology and Immunology 460, "Molecular Methods in Public Health." July 13, 2005; 6.

Hintzman, P. Clinical Laboratory Science Program Management Seminar 640, "Managing Laboratory Finances." Fall, 2005; 30.

Hoffman, G. Clinical Laboratory Science, "Newborn Screening Instrumentation." March 30, 2006; 26.

Hoffman, G. Clinical Laboratory Science, "Wisconsin Newborn Screening Program." October 13, 2005; 22.

Hoffman, G. UW-Madison Genetic Counselor Rotation, "Introduction to Newborn Screening." July 2005 – June 2006; 5.

Hoffman, G. UW- Madison Pathology Resident Rotation, "Introduction to Newborn Screening." April 24, 2006; 1.

Hoffman, G. UW-Madison Pathology Resident Lecture, "Newborn Screening methodology and Instrumentation – Part One." August 9, 2005; 14.

Hoffman, G. UW-Madison Pathology Resident Lecture, "Newborn Screening methodology and Instrumentation – Part Two." August 16, 2005; 14.

Hoffman, G. UW-Madison Pediatric Resident Rotation, "Introduction to Newborn Screening." July 2005 – June 2006; 1.

Kurtycz, D. Clinical Laboratory Science 535, Bacteriology (Co-Director). Fall 2005.

Kurtycz, D. Clinical Laboratory Science 536, Mycology, Parasitology and Virology. Spring 2006.

Kurtycz, D. General Pathology 402/404, Infectious Diseases. Fall 2005.

Kurtycz, D. General Pathology 703, Wound Healing/Repair, Student Laboratory and Discussion. Spring 2006.

Kurtycz, D. Pathology 704, Neoplastic Diseases. Fall 2005.

Kurtycz, D. Pathology 721, Neoplastic Diseases and Colo-Rectal Panel. Fall 2005.

Kurtycz, D. Pathology 803, Graduate Course on Neoplasia. Fall 2005.

Newborn Screening Staff. Kettle Moraine High School, "Newborn Screening Laboratory Tour." December 15, 2005; WSLH; 42.

Pfister, J. Medical Microbiology & Immunology 554, Infectious Diseases and Bioterrorism, "Epidemiology of Bioterrorism." University of Wisconsin-Madison, September 29, 2005.

Powell, J. Clinical Laboratory Science 536, "Arboviruses." April 21, 2006; 24.

Powell, J. Clinical Laboratory Science 536, "Influenza: Epidemiology and Public Health Importance." April 7, 2006; 24.

Shalkham, J. Clinical Laboratory Sciences 404, "Instrumentation in Medical Technology-the Microscope." April 2006; 25.

Shalkham, J. Clinical Laboratory Sciences 410, "Basic Cytology and Laboratory Procedures." August 2005; 12.

Shalkham, J. Clinical Laboratory Sciences 510, "Advanced Laboratory Procedures." April 2006; 11.

Shalkham, J. Clinical Laboratory Sciences 540, "The Female Genital System." August – November 2005; 12.

Shalkham, J. Clinical Laboratory Sciences 541, "Clinical Practice I." November 2005; 11.

Shalkham, J. Clinical Laboratory Sciences 543, "The Respiratory System." November-December 2005, 11.

Shalkham, J. Clinical Laboratory Sciences 544, "The Breast." December 2005, 11.

Shalkham, J. Clinical Laboratory Sciences 546, "The Gastrointestinal System." January 2006, 11.

Shalkham, J. Clinical Laboratory Sciences 549, "Miscellaneous Cytology." March 2006; 11.

Shalkham, J. Clinical Laboratory Sciences 625, "Seminar in Laboratory Operations and Quality Control." June 2006, 11.

Shalkham, J. Clinical Laboratory Sciences 630, "Seminar in Clinical Cytology." May 2006; 1.

Shult, P. Clinical Laboratory Science 536, "Medical Virology." Six-week module, UW-Madison, Spring, 2006; 24.

Shult, P. Medical Microbiology and Immunology 554, "Emerging Infectious Diseases and Bioterrorism." UW-Madison, Fall 2005; 36 students.

Shult, P. Medical Microbiology and Immunology Club, "Careers in Public Health for the Laboratory Scientist." UW-Madison, November 7, 2005; 155.

Shult, P. Pharmacy Students, April 24, 2006.

Warshauer, D. Clinical Laboratory Science 536, "Contaminants, Subcutaneous Mycoses, and Actinomyces." February 22, 2006; 24.

Warshauer, D. Clinical Laboratory Science 536, "Infections due to Yeasts." March 1, 2006; 24.

Warshauer, D. Clinical Laboratory Science 536, "Introduction to Medical Mycology." February 17, 2006; 24.

Warshauer, D. Clinical Laboratory Science 536, Mycology Laboratory. February 17-March 24, 2006; 24.

Warshauer, D. Clinical Laboratory Science 536, "Systemic Mycoses Part 1." March 3, 2006; 24.

Warshauer, D. Clinical Laboratory Science 536, "Systemic Mycoses Part 2." March 8, 2006; 24.

Warshauer, D. Clinical Laboratory Science 536, "The Dermatophytes and Superficial Mycoses." February 24, 2006; 24.

X. Other Teaching or Lectures Presented that were Part of a "For-credit" Class

Note: Last number listed indicates the number of people attending.

Chen, M. UW-La Crosse Clinical Microbiology Program, "Arboviruses and Syphilis." October 31, 2005; 1.

Chen, M. UW-La Crosse Clinical Microbiology Program, "Arboviruses and Syphilis." January 12, 2006; 1.

Haase, B. and Chen, M. Madison Area Technical College Clinical Laboratory Technician Program, "Viral Hepatitis/Human Immunodeficiency Virus." January 25, 2006; Madison, WI; 6.

Haase, B. and Kiesner, C. Medical Microbiology and Immunology 460, "Molecular Methods in Public Health." July 13, 2005.

Kurtycz, D. WSLH School of Cytotechnology, 20 lectures per semester.

Pfister, J. UW-LaCrosse Clinical Microbiology Graduate Program, "Core Functions of Public Health Laboratories." January 9, 2006.

Powell, J. Zoonoses 091-115, "Rabies Information for the Veterinary/Animal Care Professional." May 5, 2006; 68.

Shult, P. Marquette University Public Health Course, "Emerging Diseases." February 28, 2006; Milwaukee, WI; 55.

Shult, P. UW-La Crosse Microbiology 500, "Emerging Infectious Diseases." November 4, 2005; La Crosse, WI; 12.

Stanton, N. Environmental Health in Wisconsin: A Local Perspective, "Role of the Laboratory in Assessing Environmental Exposures." December 5-6, 2005; Madison, WI; 40.

Warshauer, D. Madison Area Technical College Clinical Laboratory Technician Program, "Mycobacteriology." January 25, 2006; Madison, WI; 6.

XI. Other Teaching or Training We Provided NOT as Part of a "For-Credit" Class

Note: Last number indicates the number of people attending.

Anderson, G. Bench training provided at the request of the Wisconsin Department of Natural Resources, "Chlorine Measurement for Wastewater Compliance using the ISE Method." November 1, 2005; Madison, WI (WSLH); 4.

Anderson, G., Bowman, G. and Manix, M. "On-going assistance and troubleshooting for Wisconsin wastewater operators." 2006.

Anderson, G. One-on-one training for the Rock County Department of Health, "Nitrate Testing in Drinking Water using the ISE Method." August 16, 2005; Madison, WI (WSLH); 1.

Anderson, G. Wisconsin Department of Natural Resources fish hatchery staff, "On-going refresher training: Field measurement of nitrogen and phosphorus to optimize pond fertilization." 2006.

Bowman, G., and Mealy, R. (Wisconsin Department of Natural Resources Laboratory Certification Program). Wisconsin Wastewater Operators Association Annual Conference, "General Chemistry Relationships in Water and Wastewater Treatment." October 26, 2005; Wisconsin Dells, WI; 75.

Bowman, G., and Mealy, R. (Wisconsin Department of Natural Resources Laboratory Certification Program). Wisconsin Rural Water Association Workshops, "Importance of General Chemistry Relationships in Water Treatment." December 2, 2005 - Fennimore, WI; 55; December 9, 2005 - Shawano, WI; 48.

Bowman, G. and Mealy, R. 39th Annual Wisconsin Wastewater Operator's Association Conference, "Everything You Need to Know About DNR Lab Audits." October 4-7, 2005; Green Bay, WI; 60.

Burk, T. Division of Public Health Annual Environmental Conference, "IAQ Services Available for WSLH." Madison, WI; 20.

Chen, M. Madison Area Technical College Clinical Laboratory Technician Program, "HIV." January 25, 2006; Madison, WI; 8.

Kennedy-Parker, D. One-on-one ICP training, December 15, 2005. Colfax; 2.

McDonald, R. Planned Parenthood of Wisconsin Clinical Issues Forum, "Top 5 STD Lab Questions." April 19, 2006; Brookfield, WI; 40.

Mealy, R., and Bowman, G. 39th Annual Wisconsin Wastewater Operator's Association Conference, "QC Sample Use in Assessing Data Quality." October 4-7, 2005; Green Bay, WI; 48.

Neuser, T. "CSI: Not! Reality Toxicology." Pharmacology/Toxicology Colloquium, UW-Madison School of Pharmacy, November 2, 2005; Madison, WI; 18.

Shult, P. (Facilitator and Presenter). HRSA Region 6, "Pandemic Influenza Tabletop Exercise." October 11, 2005; Kimberly, WI; 50.

Shult, P. (Facilitator and Presenter). LPHA Consortia 7, "Pandemic Influenza Tabletop Exercise." November 3, 2005; Wisconsin Dells, WI; 50.

Shult, P. (Facilitator and Presenter). Quad County Regional Forensic-Epidemiology Training Workshops, "Role of the Public Health Laboratory in Emergency Response." November 29, 2005; 50.

Shult, P. Fort Atkinson High School Biology Classes (3 separate presentations), "Emerging Infections." March 27, 2006; Fort Atkinson, WI; 85.

Shult, P. Sauk Prairie Hospital weekly continuing education seminar, "Pandemic Influenza." October 4, 2005; Sauk Prairie, WI; 35.

Warshauer, D. and Tans-Kersten, J. Madison Area Technical College, "Mycobacteriology: an Overview." January 25, 2006; Madison, WI; 8.

XII. Any Other Research or Outreach NOT Included Elsewhere

Note: Last number indicates number of people attending.

Degenhardt, D. Tri County Water Association, "Emergency Response Drinking Water Collection Kit." October 20, 2005; Pewaukee, WI; 60.

Degenhardt, D., Spallato, A., Kennedy-Parker, D., Geis, S., Burk, T., Bowman, G., Tocco, R., Sonzogni, W. Visits to 75 environmental testing laboratories throughout Wisconsin, "Chemical Emergency Response and the Wisconsin Emergency Response Environmental Laboratory Network." August 24, 2005-April 27, 2006.

Degenhardt, D. Wisconsin Association of Hazardous Materials Responders Annual Meeting, "Emergency Response Drinking Water Collection Kit." March 4 2006; Wisconsin Dells, WI; 75.

Degenhardt, D. Wisconsin Emergency Management Regional Directors Meeting, "Emergency Response Drinking Water Collection Kit." August 9, 2005; Madison, WI; 6.

Degenhardt, D. Wisconsin Rural Water Association Meetings, "Emergency Response Drinking Water Collection Kit." August 3-September 22, 2005; Madison, WI; Waukesha, WI; Rice Lake, WI; Whitewater, WI.

Degnan, A., Kluender, S., Bowman, G., Schultz, R., Patzer, K., Olstadt, J., Arneson, R., Mealy, R., and Glymph, T. Video CD, "Beach Water Collection for *E. coli*." May, 2006; Distributed to 39 states and 1 site in Mexico.

Kalscheur, D. Toxicology Inservice for the Rock Co. Coroners Office, January 18, 2006; Janesville, WI; 8.

Kirk, C. UW-La Crosse Students, "Community Acquired Pathogens Program & Lab Networks." October, 2005 and January, 2006; Madison, WI.

Klawitter, J., Worley, C., Tans-Kersten, J. Association of Public Health Laboratories Legislative Education Day, "Public Health Laboratory Issues." April 6-7, 2006; Washington, DC; 10.

Roach, M., Worley, C., Krick, W. Training of staff from South Dakota Public Health Laboratory, July 11-July 13, 2005; 1.

Spallato, A. "FTIR Analysis, Applications and Training for U. S. Postal Inspectors." July 22, 2005; Madison, WI; 2.

Spallato, A., and Degenhardt, D. Wisconsin Association of Hazardous Materials Responders Annual Meeting, "Chemical Unknowns and FTIR Analysis." March 4, 2006; Wisconsin Dells, WI; 100.

Spallato, A. Wisconsin Rural Water Association Meetings, "Emergency Response Drinking Water Collection Kit." August 10-September 21, 2005; Rhinelander, WI; Green Bay, WI; Plover, WI; Fennimore, WI.

XIII. Extramurally Funded Research

American Water Works Association, "A Study of the Factors Affecting the Gross Alpha Measurement, and a Radiochemical Analysis of some Groundwater Samples from the State of Wisconsin Exhibiting an Elevated Gross Alpha Activity." 2005-2007, \$250,000. Primary Investigators: Arndt, M., and West, L.

American Water Works Association Research Foundation, "Effect of Pathogen Concentrations on Removal of Emerging Waterborne Pathogens." June 2004, \$150,000. Investigators: Harrington, G., Hoffman, R., and Borchardt, M.

American Water Works Association Research Foundation, "Improved Mycobacterium Avium Complex Detection Methods." August 2004, \$493,291, Awarded. Investigators: Collins, M., Hoffman, R., and Harrington, G.

Association of Public Health Laboratories, "Private-Public Partnerships." 2004-2005, \$50,000. Primary Investigators: Chapin, J., and Sonzogni, W.

Blood Lead and EP Proficiency Testing Program. 2005-2007. Primary Investigator: Stanton, N.

Centers for Disease Control and Prevention, "Assessment of Laboratory Performance and Practices for Direct detection of *Mycobacterium tuberculosis* (Mtb) in Patient Specimens Using FDA Approved Kits for the Amplification and Detection of Mtb Nucleic Acids." 2003 – 2008, \$796,996. Primary Investigators: Hassemer, D., and Warshauer, D.

Centers for Disease Control and Prevention, "Filter Paper Blood Lead Proficiency Testing Program." 2002-present. Primary Investigator: Stanton, N.

J. Michael Walsh Group, "Evaluation of On-Site Oral Fluid Drug Testing Devices." October 2003-December 2006, \$69,000. Site Coordinator: Liddicoat, L.

U.S. Department of Labor Occupational Safety & Health Administration, "Wisconsin Health OSHA Consultation 21(d) Cooperative Agreement." Federal Fiscal Year 2005, \$1,085,000. Primary Investigator: Sonzogni, W.

U.S. Public Health Service, "Blood Lead and EP Proficiency Testing Program." 2005-2007, \$750,000. Primary Investigator: Stanton, N.

U.W. System Applied Research Grant Program, "Development of monoclonal antibodies to the cyanobacterial neurotoxin anatoxin-a." June 2004-2005, \$50,000. Investigators: Xagorarakis, I., Hoffman, R., Karner, D., Krick, W., and McGlenn, D.

Water Environment Research Foundation, "Removal of Endocrine Disruptors in Water Reclamation Processes." 2002-2005, \$522,322. Primary Investigators: Hemming, J., Schauer, J., Drewes, J., and Sonzogni, W.

Wisconsin Groundwater Coordination Council, "Occurrence of Estrogenic Endocrine Disruptors in Groundwater." 2005-2006, \$10,932. Primary Investigators: Hemming, J., and Sonzogni, W.

Wisconsin Groundwater Coordination Council. Primary Investigators: Arndt, M., West, L., and Sonzogni, W.

XIV. Committees, Work Groups, Boards-Within University of Wisconsin-Madison

Kennedy-Parker, D. Served on University of Wisconsin Labor Management Advisory Committee, 2004 to present.

Kennedy-Parker, D. Served on Search and Screen Committee for selecting the new Director of the Wisconsin State Laboratory of Hygiene, 2006.

Klawitter, J. Vice-Chair, UW School of Medicine and Public Health's Wisconsin Partnership Fund for a Healthy Future Public Health Education and Training Subcommittee, 2005 – present.

Kurtycz, D. UW Medical Foundation, Council of Faculty Committee.

Kurtycz, D. UW Medical School, Continuing Medical Education Committee.

Kurtycz, D. UW Medical School, Second-Year Medical Student Curriculum Committee.

Shult, P. Serves on UW-Madison Campus Health Issues Planning Committee, 2005-present.

Sonzogni, W. Served on Search and Screen Committee for selecting the new Director of the Wisconsin State Laboratory of Hygiene, 2006.

Warshauer, D. Serves on UW-Madison Biosecurity Task Force, 2004-present.

Warshauer, D. Serves on UW-Madison Clinical Laboratory Science Program Advisory Task Force, 2003-present.

XV. Committees, Work Groups, Boards--Outside University of Wisconsin-Madison

Bowman, G. Serves as a member of the BOD Task Group, "Standard Methods for the Examination of Water and Wastewater," 1987-present.

Bowman, G. Served as the vice-chair of the Wisconsin Environmental Laboratory Certification Standards Review Council, 2000-2006.

Bowman, G. Served on the Wisconsin Department of Natural Resources Regulatory Advisory Committee for revision of the Environmental Laboratory Certification Rules (NR149), 2003-2006.

Burk, T. Past-President, Wisconsin Section American Industrial Hygiene Association, 2005-2006.

Clary, A. Serves as a member of the Metals Task Group, "Standard Methods for the Examination of Water and Wastewater," 1994-present.

Cochems, A. Member, Wisconsin Bureau of Transportation Safety Drug Recognition Examiner (DRE) Oversight Committee, 2002-present.

Cochems, A. Member, Wisconsin Bureau of Transportation Safety Standardized Field Sobriety Testing (SFST) Advisory Committee, 2004-present.

Degenhardt, D. Serves on the Hospital Decontamination Effluent Management Technical Work Group, 2005-present.

Degenhardt, D. Serves on the Water Contamination Workgroup, 2004-present.

Degenhardt, D. Serves on the Wisconsin Interagency Laboratory Emergency Response Group, 2003-present.

Dobson, L. Member of ASTM Committee D22 Indoor Air Quality Committee and subcommittee 04 on Sampling and Analysis of Workplace Atmospheres.

Ellinger, T. Member of ASTM Committee D22.08 Indoor Air Quality Committee and subcommittee on Mold Sampling and Analysis.

Geis, S. Member, Road Salt Use Committee, City of Madison Council on the Environment.

Harding, P. Immediate Past-Chair, The National Safety Council's Committee on Alcohol and Other Drugs, March 2004-present.

Harding, P. Member, Board of Directors, International Association for Chemical Testing, 2000-present.

Harding, P. Member, The National Safety Council's Committee on Alcohol and Other Drugs, 1986-present.

Harding, P. Member, The National Safety Council's Committee on Alcohol and Other Drugs, Executive Board, 1995-present.

Hoffman, G. Member, 2005 Newborn Screening and Genetics Symposium Planning Committee, 2005.

Hoffman, G. Member, Association of Public Health Laboratories (APHL) Newborn Screening QC/QA Advisory Committee, 2002-present.

Hoffman, G. Member, Department of Public Health Newborn Screening Advisory Committees (metabolic, endocrine, CF-molecular, hemoglobimopathy, education, umbrella), 1991-present.

Hoffman, G. Member, HRSA Region 4 Tandem Mass Spectrometry Cluster, 1995-present.

Hoffman, G. Member, HRSA Region 4 Public Health Infrastructure Cluster – Short Term Follow Up Team (Chair), 1995-present.

Hoffman, G. Member, National Newborn Screening and Genetic Resource Center – Newborn Screening Advisory Committee, 1999-present.

Hoffman, G. Member, National Newborn Screening and Genetic Resource Center – Newborn Screening Technical Review Team, 2001-present.

Hoffman, G. Member, Public Health Informatics Institute – Data Integration Committee, 2004-2005.

Hoffman, R. Chair, American Water Works Association – Organisms in Water Committee. 2004-present.

Hoffman, R. Chair, manual committee, AWWA Algae Manual. 2006.

Hoffman, R. Conference steering committee member, AWWA “International Symposium on Waterborne Pathogens”. 2004-2006.

Hoffman, R. Expert workgroup data reviewer, “Water Contaminant Identification Tool” US EPA. August 2004-present.

Hoffman, R. Member, American Water Works Association workgroup, "State of the Science of Adenovirus". 2005.

Hoffman, R. Project advisory committee member, American Water Works Association Research Foundation - AWWARF 2899, "A Rapid Ammonia-Oxidizing Bacteria Measurement Method as an Early-Warning Indicator of Nitrification Episodes." 2003-present.

Hoffman, R. Steering Committee, manual revision, co-editor Protozoan section "AWWA Waterborne Pathogens Manual" 2005 revision. 2004-2006.

Hoffman, R. WSLH Standard Methods Committee. 2005-present.

Kalscheur, D. Member, Casepoint-Electronic Database for Coroners and Medical Examiners, 2002-present.

Kalscheur, D. Full Member, Education Committee for the Wisconsin Coroners and Medical Examiners Association, September 2005-present.

Kirk, C. Facilitator, Wisconsin Clinical Laboratory Technical Advisory Group, 2004-present.

Kirk, C. Member, Great Lakes Border Health Initiative, Laboratory Subcommittee, 2005-present.

Kirk, C. Member, Water Contamination Response Work Group, 2005.

Kirk, C. Member, Wisconsin Animal Influenza Planning Committee, 2005-present.

Kirk, C. Member, WILERG (Wisconsin Interagency Laboratory Emergency Response Group), 2005-present.

Klawitter, J. Member, Wisconsin Public Health Association Board of Directors, 2003-present.

Klawitter, J. Member, Wisconsin Public Health Association Public Affairs Committee, 2003-present.

Klawitter, J. Member, Wisconsin Public Health Education and Training Advisory Committee, 2005-present.

Kurtycz, D. Health Care Financing Authority (HFCA) Pathologist Inspector in Cytology, American Society of Cytotechnologists, March 2001 – Present.

Kurtycz, D. Medical Director, Devil's Head Ski Patrol, Branch of National Ski Patrol, 1992-Present.

Kurtycz, D. Member, American Society of Clinical Pathologists (ASCP) Board of Registry, 1994-Present.

Kurtycz, D. Member, American Society of Clinical Pathologists (ASCP) Teleconference Committee.

Kurtycz, D. Member, American Society for Colposcopy and Cervical Pathology, 1994-Present.

Kurtycz, D. Member, American Society for Colposcopy and Cervical Pathology, Cervix Committee, 2006-08.

Kurtycz, D. Member, American Society for Colposcopy and Cervical Pathology, Pathology Committee, 2006-08.

Kurtycz, D. Member, American Society of Cytology (ASC); Chair, ASC Website Editorial Committee.

Kurtycz, D. Member, American Society of Cytopathology, Executive Board, 2004-present.

Kurtycz, D. Member, College of American Pathologists (CAP), 1984-Present.

Kurtycz, D. Member, Editorial Board of *Diagnostic Cytopathology*, April 2003-Present.

Kurtycz, D. Member, Papanicolaou Society of Cytopathology, Executive Board, 2004-2006.

Kurtycz, D. Member, Wisconsin Clinical Cancer Council, 2001-Present.

Kurtycz, D. Reviewer, *Cancer Cytopathology* (Wiley Interscience).

Kurtycz, D. Reviewer, *Diagnostic Cytopathology* (Wiley-Liss Publications).

Kurtycz, D. Reviewer, *Journal of Lower Genital Tract Disease* (Blackwell Science).

Kurtycz, D. Reviewer, *Archives of Pathology & Laboratory Medicine* (College of American Pathologists).

Liddicoat, L. Member, AAFS/SOFT Driving Under the Influence of Drugs (DUID) Committee, 2001-present.

Liddicoat, L. Member, Casepoint-Electronic Database for Coroners and Medical Examiners, 2002-present.

Liddicoat, L. Member, The National Safety Council's Committee on Alcohol and Other Drugs, 2003-present.

Liddicoat, L. Secretary, The National Safety Council's Committee on Alcohol and Other Drugs, March 2006-present.

Liddicoat, L. Member, Wisconsin Bureau of Transportation Safety Drug Recognition Examiner (DRE) Oversight Committee, 2000-present.

McDonald, R. Board Member, Health Care Education and Training Board of Directors, 2003-present.

McDonald, R. Member, Region V Infertility Prevention Project Advisory Committee, 1997-present, RVIPP Laboratory Subcommittee Chair, 2000-present.

McDonald, R. Representative from Region V on the National Chlamydia Laboratory Committee (CDC), 2000-present.

Pfister, J. Member, Bioterrorism Surveillance and Epidemiology Advisory Group; Wisconsin Division of Public Health, 2002-present.

Pfister, J. Member, Global AIDS Laboratory Project; Botswana Team and Quality Assurance Team; Association of Public Health Laboratories and Centers for Disease Control and Prevention, 2000-present.

Pfister, J. Member, Public Health Information Network (PHIN) Business Management Committee, and AVR Workgroup, Wisconsin Division of Public Health, 2004-present.

Pfister, J. Member, Region V Infertility Prevention Program; Advisory Committee, Analysis and Evaluation Subcommittee, and Wisconsin State Alliance; Health Care Education and Training, Inc. and Centers for Disease Control and Prevention, 1994-present.

Pfister, J. Member, Wisconsin Electronic Surveillance System (WEDSS) Lead Team, Wisconsin Division of Public Health, 2005-present.

Pfister, J. Participant, Wisconsin Epidemiology Network, Wisconsin Division of Public Health, 2004-Present.

Popp, D. Member of American Industrial Hygiene Association Technical Advisory Panel.

Powell, C. Member of American Industrial Hygiene Association Analytical Accreditation Board.

Powell, C. Chair of American Industrial Hygiene Association EMLAP Task Force.

Powell, C. Member American Industrial Hygiene Association Biosafety and Environmental Microbiology Committee.

Powell, C. Member of ASTM Committee D22.08 Indoor Air Quality Committee and subcommittee on Mold Sampling and Analysis.

Powell, J. National Rabies Diagnostic Committee, 1999-present.

Prieve, A. Member, Wisconsin Clinical Laboratory Technical Advisory Group, 2004-present.

Shalkham, J. American Society of Cytopathology, Laboratory Advisory Committee. 2004-present.

Shalkham, J. American Society of Cytopathology, Scientific Programs Committee. 2003-present.

Shalkham, J. American Society of Clinical Pathology, Associate Member Council. 2005-present.

Shalkham, J. American Society for Cytotechnology, Budget and Finance Committee. 2006-present.

Shult, P. Alternate Member, UW-Madison Task Force on Biosecurity, 2004 – present.

Shult, P. Member, APHL-CDC Working Committee for national Laboratory System, 2002-present.

Shult, P. Member, APHL-CDC Working Group on Influenza Testing Algorithm for Public Health Laboratories.

Shult, P. Member, APHL Infectious Disease Committee, 2005-present.

Shult, P. Member, CDC Emerging Infectious Diseases Fellowship Program Advisory Board, 2002-present.

Shult, P. Member, CDC Partners for Influenza Preparedness Working group, 2004-present.

Shult, P. Member, Great Lakes Border Health Laboratory Subcommittee, 2005-present.

Shult, P. Member, Pandemic Influenza Response Preparedness Planning for Wisconsin, 2001-present.

Shult, P. Member, Wisconsin Association of Hazardous Materials Responders (WAHMR) Governance Board, 2004-present.

Shult, P. Member, Wisconsin Clinical Laboratory Technical Advisory Group, 2004-present.

Shult, P. Member, Wisconsin Division of Public Health Preparedness Committee, 2002-present.

Shult, P. Member, Wisconsin Interagency Laboratory Emergency Response Group (WILERG), 2005-present.

Shult, P. Member, Wisconsin Interagency Workgroup on Terrorism, 2004-present.

Shult, P. Subject matter expert, CDC Pandemic Operations Plan Review Committee, 2005-present.

Spallato A. Served on the Water Contamination Workgroup, 2004-present.

Stanton, N. Full Member, CDC Chemical Terrorism Proficiency Testing Working Group, 2005-2007.

Stanton, N. INSPQ (Quebec) Multi-Element External Quality Assessment Scheme Advisory Group, December 2005-present.

Stanton, N. Member, CDC's LRN-C Proficiency Testing Working Group, May 2004-present.

Stanton, N. Member, WI Lead Poisoning Elimination Oversight Committee, Targeting High Risk Populations, August 8, 2004-present.

Warshauer, D. Member, Wisconsin Clinical Laboratory Technical Advisory Group, 2004-present.

Wedig, M. Member, Wisconsin Clinical Laboratory Technical Advisory Group, 2004-present.

Warshauer, D. Serves on Association of Public Health Laboratories Tuberculosis Steering Committee, January 2005-present.

XVI. Awards and Honors

Laessig, R. Wisconsin Public Health Association, *WPHA Distinguished Service to Public Health Award*, 2006.

Metcalf, T. Partners in Giving, *Special Events Award*, 2005, Madison, WI.

Popp, D. American Industrial Hygiene Association, *The Newton Whitman Award*. American Industrial Hygiene Conference and Exposition (AIHCE), May 16, 2006, Chicago, IL.

Powell, C. American Industrial Hygiene Association, *The Harriotte A Hurley Award*. American Industrial Hygiene Conference and Exposition (AIHCE), May 16, 2006, Chicago, IL.

Schleis, D. "Polish Up Your Web Applications with AJAX." Oracle Development Tool Users Group (ODTUG), *Kaleidoscope 2006 Conference Editor's Choice Award Top-5 Finalist*, 2006.

Shalkham, J. American Society of Cytopathology, *Cytotechnologist Award for Outstanding Achievement*, 2006.



Clinical Laboratory Services
465 Henry Mall
Madison, WI 53706
(888) 494-4324

Environmental Health Division
2601 Agriculture Drive
Madison, WI 53718
(800) 442-4618