

***Summary Report of WSLH
Research, Teaching and Outreach
Activities Related to Our
UW-Madison Mission
For the period of July 1, 2004 to June 30, 2005***

December 2005

Dear Colleagues and Partners:

Welcome to the Fiscal Year 2005 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, 2004, through June 30, 2005.

We have been compiling these reports for several years now, and each year the list of activities and research grows. All of these accomplishments contribute to 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,



Ronald H. Laessig, Ph.D
Director, Wisconsin State Laboratory of Hygiene
Professor of Pathology and Laboratory Medicine
Professor of Population Health Sciences

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For the period of July 1, 2004 to June 30, 2005

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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:

DPH = WI Division of Public Health

DNR = WI Department of Natural Resources

CDC = Centers for Disease Control and Prevention

USEPA = U.S. Environmental Protection Agency

UW = University of Wisconsin

USGS = U.S. Geological Survey

OSHA = Occupational Safety and Health Administration

USDA = U.S. Department of Agriculture

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Ambient and Workplace Air Program	<ul style="list-style-type: none"> • NIOSH • OSHA • MSHA 	<ul style="list-style-type: none"> • Reviewed NIOSH updated silica method for use in NMAM • Submitted WOHL metals method for use in next NMAM 	<ul style="list-style-type: none"> • Technical expertise • Method development • Analytical capability • Program funding
American Foundry Society	<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 • 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 get 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 is to market 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
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.

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Associated General Contractors (AGC) of Wisconsin	<ul style="list-style-type: none"> • All four OSHA Area offices • AGC-Wisconsin • Department of Commerce Safety Consultation program • WSLH OSHA Health Consultation program 	<ul style="list-style-type: none"> • There have been no measurable accomplishments during this period • AGC-WI has not had any member sign on to this program to date 	<ul style="list-style-type: none"> • OSHA provides formal framework for the partnership, CAS support and expertise • AGC-WI is to market the program to its members • This is identical to the Milwaukee AGC partnership • The two OSHA Consultation Programs – Health and Safety - are to provide on-site inspections and qualifying inspections, and IH services when requested
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
Camp Randall Construction	<ul style="list-style-type: none"> • OSHA Madison, Wis., Area Office • Cullen-Smith construction joint venture • UW Athletic Department • Department of Commerce Safety Consultation Program • WSLH OSHA Health Consultation Program 	<ul style="list-style-type: none"> • Construction partnership which had monthly walk through inspections by safety and health consultants • No OSHA enforcement presence on site • Project ended in mid-August 2005 and to date there have been no significant lost time injuries and no fatalities 	<ul style="list-style-type: none"> • OSHA provides formal framework of partnership, receives and analyzes data on a monthly basis • Cullen-Smith agrees to a higher standard (such as six-foot fall protection on the project), provides daily safety oversight of both Cullen-Smith employees and subs • Safety & Health Consultation provide monthly site inspections with corrections of items found • Health consultation also provides sampling for exposure to Si, Pb and noise
Cancer	<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
Cancer Control	<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

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Cancer Control and Detection Program – On-site Training	<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 – On-Site Training	<ul style="list-style-type: none"> • Drs. Breslin and 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 – On-Site Training	<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 – On-Site Training	<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 – On-site Training	<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 2005	What do Partners Provide?
Cancer Control and Detection Program – UW 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 	<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 • Product recall and replacement of defective instrument components 	<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
Community Acquired Pathogens (CAP) Program – Education/Training	<ul style="list-style-type: none"> • Clinical laboratories • DPH • CDC • UW • National Laboratory Training Network 	<ul style="list-style-type: none"> • Teleconferences on upcoming influenza season and BT • Mailings to rapid test sites, annual virology laboratory conference, lab guidance for avian influenza • Provided six regional laboratory meetings on Emergency Response • Provided laboratory response system exercise 	<ul style="list-style-type: none"> • Labs – venues, feedback • DPH, CDC – Expertise • UW – Facilities

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
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 pertussis outbreak and avian influenza surveillance • Developed 2005-06 BT and HRSA funding proposals • Performed lab site visits • Maintained lab messaging system • Distributed shipping kits and instructions to local health department shipper repository sites • Distributed laboratory capability survey and compiled data 	<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 2005–06 influenza surveillance 	<ul style="list-style-type: none"> • Labs, rapid test sites, clinicians-data, and specimens/isolates • Conduit for information from WDPH & WSLH to colleagues • DPH-epidemiologic expertise, coordination of influenza surveillance and ELC funding
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
Deerfield School	<ul style="list-style-type: none"> • OSHA Madison Area Office • Vogel Brothers Construction • Department of Commerce Safety Consultation Program • WSLH OSHA Health Consultation Program 	<ul style="list-style-type: none"> • Construction partnership in which a school addition was completed without any major injuries to workers 	<ul style="list-style-type: none"> • OSHA provided the formal framework and oversight • Vogel Brothers provided onsite safety expertise and agreement to exceed OSHA standards in fall protection • Safety Consultation provided monthly site inspections with hazard correction • Health Consultation provided sampling for Pb, Si, Cd, CO, noise

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
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. Dietrich • He 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
DPH	<ul style="list-style-type: none"> • WSLH OSHA Health Consultation Program • Division of Public Health 	<ul style="list-style-type: none"> • Provision of position authority for Occupational Health NIOSH grant • Completion of the Satellite Project to connect the state haz mat teams (7 or the 8) to the internet • WSLH for higher level analysis of field data 	<ul style="list-style-type: none"> • DPH has the occupational surveillance programs of FACE, ABLES, the occupational indicators, occupational asthma, and dermatitis • The WSLH OSHA Health Consultation Program provide 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
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"> • The product earlier in the year was a safety and health flip chart for managers training younger workers in the restaurant industry • This final product was distributed through the WI Restaurant Assn., the DPH, Insurance carriers and others • The 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

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Drinking Water Quality	<ul style="list-style-type: none"> • AWWARF • Southern Nevada Water Authority 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • USGS • Water Resources Institute 	<ul style="list-style-type: none"> • Performed E-screen assays for endocrine disruptors on six drinking water facilities 	<ul style="list-style-type: none"> • Funding
Drinking Water Quality and Ecosystem Quality Programs – Anatoxin-a antibody Development	<ul style="list-style-type: none"> • Irene Xagorarakis of UW Engineering • Deven McGlenn of Neoclone 	<ul style="list-style-type: none"> • Received funding for Anatoxin-a antibody development from the UW System 	<ul style="list-style-type: none"> • Report writing • Testing facilities • Personnel
Drinking Water Quality and Ecosystem Quality Programs – Endocrine Disruptor Research	<ul style="list-style-type: none"> • Water Environment Research Foundation (WERF) • Colo. School of Mines 	<ul style="list-style-type: none"> • Endocrine disrupter research 	<ul style="list-style-type: none"> • Joint research effort with funding provided by WERF
Drinking Water Quality Program – H. pylori	<ul style="list-style-type: none"> • Georgia Southern University 	<ul style="list-style-type: none"> • Validation and continued research of Helicobacter pylori method 	<ul style="list-style-type: none"> • Funding • Technical expertise
Drinking Water Quality Program – Pathogen Removal Study	<ul style="list-style-type: none"> • Greg Harrington and grad students in UW CEE department 	<ul style="list-style-type: none"> • Received funding from AWWARF for pathogen removal study 	<ul style="list-style-type: none"> • Report writing • Testing facilities • Personnel
Drinking Water Quality Program - Mycobacterium avium project	<ul style="list-style-type: none"> • Michael Collins UW School of Veterinary Medicine • Greg Harrington, UW CEE • American Water Works Association Research Foundation (AWWARF) 	<ul style="list-style-type: none"> • Received funding for development of detection methods for Mycobacterium avium complex organisms in water and biofilm samples 	<ul style="list-style-type: none"> • Funding • Report writing • Technical expertise • Personnel
Ecosystem Quality	<ul style="list-style-type: none"> • Wisconsin Wastewater Operators Association (WWOA) 	<ul style="list-style-type: none"> • One workshop (Back to the Basics in the Lab) and one short training session (Chlorine Testing for Wastewater Compliance) were given at the Wisconsin Wastewater Operators Association (WWOA) in October 2003 	<ul style="list-style-type: none"> • Information on training needs • Assisted on curriculum development for the workshop
Ecosystem Quality	<ul style="list-style-type: none"> • CSC Biology Studies Group 	<ul style="list-style-type: none"> • Validate new methods for E. coli and enterococci 	<ul style="list-style-type: none"> • Technical assistance • Laboratory supplies
Ecosystem Quality	<ul style="list-style-type: none"> • CDC • DNR • DHFS 	<ul style="list-style-type: none"> • Seven workshops 	<ul style="list-style-type: none"> • Funding

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Ecosystem Quality Program – Bioavailability of Mercury in Precipitation, Dry Deposition, and Urban Runoff	<ul style="list-style-type: none"> • UW EC & T Dept – Chris Babiarz and Jamie Schauer, Biomonitoring Team 	<ul style="list-style-type: none"> • Experimental design 	<ul style="list-style-type: none"> • Mercury expertise • Project oversight
Ecosystem Quality Program – Blue Green Algae Survey	<ul style="list-style-type: none"> • DNR • DHFS • Waukesha County • Dane County • Dawn Karner 	<ul style="list-style-type: none"> • 34 lakes and ponds surveyed for presence/absence for blue green algae species 	<ul style="list-style-type: none"> • Funding • Sample collection
Ecosystem Quality Program – Factors Regulating the Interactions of Trace Metals and Aquatic Organisms in Watersheds of the Great Lakes	<ul style="list-style-type: none"> • UW EC & T Department – Martin Shafer and Dave Armstrong, Biomonitoring Team 	<ul style="list-style-type: none"> • Determined relevant bioassays • Planned field work • Trained grad students 	<ul style="list-style-type: none"> • Metals expertise • Project oversight
Ecosystem Quality Program – Improved Measurement of Exposure to PM2.5	<ul style="list-style-type: none"> • Univ of Colorado – Mike Hannigan and Jamie Schauer, Biomonitoring Team 	<ul style="list-style-type: none"> • Experimental design • Hired post-doc 	<ul style="list-style-type: none"> • Air pollution expertise • Samples
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 Milw. area
Food and Waterborne Diseases Program – Food Testing	<ul style="list-style-type: none"> • DATCAP Lab • Division of Public Health 	<ul style="list-style-type: none"> • Number of specimens tests 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-E. coli O157:H7) that produced shiga toxins 1 and/or 2 • Presented teleconference on shiga toxin-producing E. coli 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 	<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 	<ul style="list-style-type: none"> • Developed and implemented protocol for providing lab data directly to DOT to enable seamless processing of license suspension for alcohol/drug offenses • Worked on developing alcohol result reporting using Cohort, eliminating use of typewritten reports 	<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 • Preparation for 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
Maternal and Child Health Program	<ul style="list-style-type: none"> • DPH 	<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

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Maternal and Child Health Program	• Dr. Hermann – Milwaukee	• FISH on aberrations	• Funding • Research
Maternal and Child Health Program	• Dr. Martin - Rockford	• Autism/FISH	• Funding • Research
Maternal and Child Health Program	• Dr. Sowards, University of California	• Downs syndrome – other chromosomal aberrations	• Funding • Research
Maternal and Child Health Program - Dr. Tom Jenkins, Meriter Hospital	• Dr. Tom Jenkins, Meriter Hospital	• Provided data re indications for prenatal testing	• Reference data
Maternal and Child Health Program – Newborn Screening Program	• Department of Health and Family Services	• 67,435 newborns screened for congenital disorders	• Funding • Policy development • Program oversight • Training
Maternal & Child Health Program – New Cystic Fibrosis test method evaluation	• EraGen	• Method evaluation	• Technology
Maternal and Child Health - WAPC (Wisconsin Association of Perinatal Care)	• WAPC - their members are from different areas in Wisconsin though their state headquarters are in Madison	• Revised the guidelines for perinatal care sent to all perinatal doctors and clinics in Wisconsin	• Guidelines to clients sending us prenatal cases
Maternal and Child Health/Genetic Disorders Program	• Waisman Center • UW Medical School • UW Grad School	• Student training • Research testing • Improved patient care	• Funding • Research opportunities
Methyl Mercury and arsenic speciation research	• APHL Fellowship	• Developed and validated a method to methyl mercury in water, wastewater and tissue • Also developed a technique to measure inorganic and organic arsenic species in water using HPLC couple with ICP-MS.	• WSLH provide analytical expertise and the APHL provide funding through a fellowship

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
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 2003 on occupational injuries/illnesses • Publish numbers for calendar year 2003 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
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.
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"> • Developed and validated a method to measure particle size distribution in water column samples using a combination of laser, sieving and microfiltration 	<ul style="list-style-type: none"> • USGS and DNR provide technical guidance and goals • WSLH provided the analytical expertise and an approach to meet their goals • USGS and DNR also provided funding to support the R&D work
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
Point/Non-point Source Pollution Program – E.coli Training	<ul style="list-style-type: none"> • DHFS • CDC • DNR – Bioterrorism grant 	<ul style="list-style-type: none"> • Seven Workshops 	<ul style="list-style-type: none"> • Funding

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Safety Health Achievement Recognition Program (SHARP (OSHA))	<ul style="list-style-type: none"> • WSLH OSHA Health Consultation Program • Department of Commerce OSHA Safety Program • Federal OSHA • SHARP companies 	<ul style="list-style-type: none"> • Of 20 companies evaluated, five achieved SHARP status and three inspection deferral 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"> • Department of Public Health • Department of Corrections 	<ul style="list-style-type: none"> • Screened 3,578 incoming WI inmates for Chlamydia and Gonorrhea using pooled testing, detecting 227 Chlamydia and 11 Gonorrhea infections • Added females at Taycheedah to intake screening protocols. • Provided summary reports of positive results form SLH 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
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/APHL 	<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 • Updated laboratory section of IPP clinician training module 	<ul style="list-style-type: none"> • States, Labs – Data, collaboration, consensus on lab issues related to STD testing • HCET – Administrative, coordinate partners’ efforts • CDC, APHL – Funding (CDC), program guidance

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Sexually Transmitted Disease Program: WASTI-PEP Project	<ul style="list-style-type: none"> • Family Planning Health Services (FPHS) • Department of Public Health • Private clinicians and other public health and community partners 	<ul style="list-style-type: none"> • Collaborated on a successful application for (Blue Cross/Blue Shield) Medical College of WI planning grant for sexually transmitted infection prevention programming for high-risk adults • Collaborated on an adolescent STI prevention implementation proposal 	<ul style="list-style-type: none"> • WSLH STD Program is acting in an advisory capacity (not a primary partner) along with DPH • FPHS – writing grant proposal and guiding planning and implementation activities
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 • Milwaukee Health Department Laboratory 	<ul style="list-style-type: none"> • Performed 54,962 Chlamydia and 24,058 Gonorrhea tests on women and men at risk, detecting 4,942 CT and 831 GC infections at WSLH • Reduced low-yield GC screening 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 • 55th Civil Support Team • Local health departments 	<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
Solid and Hazardous Waste Program – FTIR Library	<ul style="list-style-type: none"> • FDA Forensic Lab 	<ul style="list-style-type: none"> • WSLH and the FDA laboratory have identical FTIR libraries 	<ul style="list-style-type: none"> • Each laboratory provides electronic libraries and expertise related to FTIR analysis
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

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Tuberculosis Program – CDC Genotyping	<ul style="list-style-type: none"> • CDC • WDPH Tuberculosis Program • Regional Genotyping Lab at Michigan PHL • WMLN labs 	<ul style="list-style-type: none"> • Continued submission of M. tuberculosis 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"> • WDPH-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 • WDPH- 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?
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 • SLH 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 jursing homes • A series of meetings with stakeholders scheduled in August 2005 	<ul style="list-style-type: none"> • Insurance companies provide data and access to thire 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 ergonomices 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 2005 there were four OSHA topics chosen for training a 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
Wisconsin Dental Association	<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

Program Partnership Name	Who are Partners/ Collaborators?	Measurable Accomplishments for FY 2005	What do Partners Provide?
Wisconsin Occupational Health Nurses Association, South Central Chapter	<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	<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 set up and manage logistics for, practical expertise for the industry

II. Publications in Peer-Reviewed Journals

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McBeth, S., A. Trujillo, E. Reisdorf, S. Warrack, and D. Warshauer. "Reverse transcriptase PCR and the CDC fluorogenic 5' nuclease Lightcycler© assay for the detection of Norovirus RNA in stool samples." American Society for Microbiology 105th General Meeting, June 5-9, 2005; Atlanta, GA.

Olstadt, J., J. Schauer, J. Standridge, and S. Kluender. "A Comparison of Ten USEPA Approved Total Coliform/E.coli tests." ASM 105th General Meeting, June 5-9, 2005; Atlanta, GA.

Olstadt, J., J. Schauer, J. Standridge, and S. Kluender. "A Comparison of Ten USEPA Approved Total Coliform/E.coli tests." AWWA, Total Coliform Rule/Distribution System Rule Technical Workgroup Meeting, June 2-3, 2005.

Omilianowski, D. and S. Schwabe. "The WOHL Sovent Scan: 30+ Years of Continual Improvement in Multiple VOC Analysis." American Industrial Hygiene Conference and Exposition, June, 2005; Anaheim, CA.

Popp, D., M. Mieritz, and C. Powell. "MicroVolatile Organic Compound Analysis by Thermal Desorbtion GC/MS." ASTM Symposia Mold in the Indoor Environment: Assessment, Health and Physical Effects and Remediation, July 26-30, 2004; Boulder, CO.

Powell, C. and D. Popp. "Lessons Learned from a Spore Trap Round Robin." ASTM Symposia Mold in the Indoor Environment: Assessment, Health and Physical Effects and Remediation, July 26-30, 2004; Boulder, CO.

Shalkham, J. "The Specialist in Cytotechnology Examination." 52nd Annual Meeting of the American Society of Cytopathology, November 12-17, 2004; Chicago, IL.

Shalkham, J. "Expanding the Scope of Practice in Cytotechnology." American Society for Cytotechnology Annual Meeting, April 8-10, 2005; Minneapolis, MN.

Shalkham, J. "Optimizing the Use of Breast FNA Cytology." American Society for Cytotechnology Annual Meeting, April 8-10, 2005; Minneapolis, MN.

Shult, P. "Influenza: Laboratory Surveillance and Pandemic Planning." APHL Annual Conference, June 26, 2005; Salt Lake City, UT.

Smieja, D. "Determination of Beryllium Compounds by NIOSH 7303." American Society of Testing Materials D22 seminar, April 21-22, 2005; Reno, NV.

Sonzogni, W. and J. Hemming. "Endocrine Disrupting Compounds." Government Affairs Seminar, March 3, 2005; Middleton, WI.

Sotir, M., D. Cappozzo, C. Schmidt, D. Warshauer, J. Zastrow, T. Kurzynski, J. Davis. "A resource and labor intensive county-wide outbreak of pertussis, Wisconsin, 2003: high impact on the adolescent population." 39th National Immunization Conference National Immunization Program, CDC, March 21-24, 2005; Washington, D.C.

Warshauer, D., T. Kurzynski, P. Cassiday, J. Davis, and T. Monson. "Use of pulsed-field gel electrophoresis (PFGE) for Bordetella pertussis related surveillance and outbreak investigation." 9th Annual PulseNet Update Meeting, May 8-11, 2005; Seattle, WA.

Warshauer, D., T. Kurzynski, P. Cassiday, J. Davis, and T. Monson. "Use of pulsed-field gel electrophoresis (PFGE) for Bordetella pertussis related surveillance and outbreak investigation." American Society for Microbiology 105th General Meeting, June 5-9, 2005; Atlanta, GA.

Yu, J., Z. Qi, K. Thompson, P. Moldaff, H. Wells, J. Johnson, L. Meisner, and R. Pauli. "Characterization of a rare neocentric marker chromosome using chromosome microdissection." American Society of Human Genetics 2004 Conference, Nov. 2004; Toronto, Canada.

VI. Other Presentations

Note: Last number indicates number of people attending.

Anderson, G. and D. Kennedy-Parker. "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.

Bowman, G., A. Degnan, K. Hable, S. Kluender, J. Olstadt and K. Patzer. "E. coli Detection in Beach Water: Demonstration of a new outreach tool." Wisconsin Laboratory Standards Review Council Meeting, May 19, 2005; 12.

Burmeister, B. "NELAC Fields of Proficiency Testing Subcommittee Report." National Environmental Laboratory Accreditation Conference Tenth Annual Meeting, August 23, 2004; Charleston, S.C.

Cochems, A. "Practical and Scientific Considerations for Alcohol Workshops." Standardized Field Sobriety Testing Instructor In-Service, December 3, 2004; Milwaukee, WI; 40.

Cochems, A. "Practical and Scientific Considerations for Alcohol Workshops." Standardized Field Sobriety Testing Instructor In-Service, December 9-10, 2004; Ft. McCoy, WI; 35.

Cochems, A. "Toxicology for Drug Recognition Experts." Drug Evaluation and Classification Program, 2004 Training School, October 12, 2004; Wausau, WI; 25.

Degenhardt, D., and A. Spallato. Wisconsin Public Health Association Annual Meeting, "Emergency Response Drinking Water Collection Kit." May 2, 2005; Middleton, WI; 200.

Degenhardt, D. "Laboratory Chemical Emergency Planning and Preparedness, Grande Cheese Co., Brownsville, WI, January 21, 2005, 45.

Degenhardt, D. "Laboratory Emergency Preparedness Planning." FBI workshop, September 15, 2004; Green Bay, WI; 55.

Harding, P. "Alcohol Curves, Charts and Calculations." 6th Annual Wisconsin Prosecutor's Seminar on OWI, November 11-12, 2004; Elkhart Lake, WI; 45.

Harding, P. "Alcohol Toxicology." Lethal Weapon: DUI Homicide, National District Attorney's Association, June 13-17, 2005; Columbia, S.C.; 48.

Harding, P. "Analysis of Defense Challenges to Breath- and Blood-Alcohol Testing." Robert F. Borkenstein Course on Alcohol, Drugs and Highway Safety: Testing, Research and Litigation, December 5-10, 2004; Indiana University, Bloomington, IN; 45.

Harding, P. "Analysis of Defense Challenges to Breath- and Blood-Alcohol Testing." Robert F. Borkenstein Course on Alcohol, Drugs and Highway Safety: Testing, Research and Litigation, May 16-19, 2005; Indiana University, Bloomington, IN; 59.

Harding, P. and L. Liddicoat. "Current Toxicology Issues - Alcohol and Other Drugs in Wisconsin Drivers." 10th Mid-Wisconsin Law Enforcement Symposium, September 28, 2004; Green Lake, WI; 84.

Hedman, C. "An ABI/SCIEX Success Story: Employing the ABI/SCIEX 4000 LC/MS/MS to Quickly Address a Priority Public Health Concern in Wisconsin." 2004 Applied Biosystems Midwest Field Engineers Meeting, October 28, 2004; Las Vegas, NV; 300.

Hedman, C., J. Wilcox, J. Bahr, and K. Bradbury. "High Performance Liquid Chromatography: Tandem Mass Spectrometry (HPLC/MS/MS) Analysis of Water for Pharmaceutical Compounds and Personal Care Products (PPCPs)." 13th Annual Midwest SETAC Meeting, April 5, 2005; Madison, WI; 100.

Hedman, C., W. Krick, and W. Sonzogni. "Measurement of Anatoxin-a: A Potent Cyanotoxin." 27th Midwest Environmental Chemistry Workshop, October 15, 2004; Madison, WI; 100.

Hemming, J., M. Barman, M. Mieritz, R. Pieters, J. Schauer, W. Sonzogni, J. Drewes, and S. Ladenburger. "Removal of endocrine disrupting activity from water reclamation processes." Society of Environmental Toxicology and Chemistry Regional Meeting, April 5, 2005; Madison, WI.

Hemming, J, J. Drewes, S. Ladenburger., M. Mieritz., R. Pieters, M. Barman, J. Schauer, and W. Sonzogni. "Removal of Endocrine Disrupting Activity from Water Reclamation Processes I." Comparing Bioassay Results with Chemical Analyses Society of Environmental Toxicology and Chemistry, November 16, 2004; Portland, OR.

Hintzman, P., J. Friederichs, and J. Theurer. "Development of a Public Health Leadership Learning Community in Wisconsin." Wisconsin Public Health Association Annual Meeting, May 2005; Middleton, WI; 50.

Hintzman, P., M. Huber, D. Rozar, A. Samadani, and H. Nelson. "Today's Reality Lifts the Promise of Tomorrow." Wisconsin Public Health Association Annual Meeting Plenary Panel, May 2005; Middleton, WI; 300.

Hoffman, G. "Application of Genetic Testing for Newborn Screening: Cystic Fibrosis." ASTO/APHL annual meeting, October 1, 2004; Minneapolis, MN; 21.

Hoffman, G. "Cystic Fibrosis Screening: Result Reporting Scheme". CFF Cystic Fibrosis Workshop, August 2, 2004; Washington, D.C.; 23.

Hoffman, G. "Cystic Fibrosis - The Wisconsin Experience." Cystic Fibrosis Symposium, November 18, 2004; Salt Lake City, UT; 45.

Hoffman, G. "Implementation of Fatty Acid Oxidation, Organic Acidemia, and Aminoacidopathies using tandem mass spectrometry." Florida NBS Advisory Group, February 3, 2005; Jacksonville, FL; 25.

Hoffman, G. "Implementation of Newborn Screening for Cystic Fibrosis - The Wisconsin Experience." Florida NBS Advisory Group, February 3, 2005; Jacksonville, FL; 25.

Hoffman, G. "Implementation of Newborn Screening for Cystic Fibrosis - The Wisconsin Experience." Ohio NBS Advisory Group, February 17, 2005; Columbus, OH; 18.

Hoffman G. "Implementation of Tandem Mass Spectrometry in a Newborn Screening Laboratory". Tandem Spectrometry Training Course, November 11,2004; Dallas, TX; 6.

Hoffman, G. "Newborn Screening for Cystic Fibrosis." Workshop – BioArray systems, May 9, 2005; Warren, NJ; 6.

Hoffman, G. "Newborn Screening for Cystic Fibrosis." Workshop – Third Wave Technologies, June 16, 2005; Madison, WI; 7.

Hoffman, G. "Newborn Screening - Past, Present, Future." HRSA Region 4 meeting, May 4, 2005; Lansing, MI; 12.

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

Johnson, J. "Cell Line Preparation for Cytogenetic and FISH analysis." Embryonic Stem Cell Tool Box at the University of Georgia, October 2004.

Johnson, J. "Cell Line Preparation for Cytogenetic and FISH analysis." Embryonic Stem Cell Tool Box at the University of Georgia, February 2005.

Johnson, J. "Cytogenetics and FISH quality assurance." WICELL training session, August 2004.

Johnson, W. "DUID & Act 97: Toxicology Made Easier." 2005 Statewide Prosecutor Education & Training (SPET) Conference, June 13, 2005; Green Lake, WI; 210.

Johnson, W., and P. Harding, P. "Drug Testing and the Practical Ramifications of Act 97- Laboratory Aspects." 6th Annual Wisconsin Prosecutor's Seminar on OWI, November 11-12, 2004; Elkhart Lake, WI; 80.

Kalscheur, D. "Specimen Collection." Wisconsin Coroner and Medical Examiner's Association Annual June Conference 2005, June 6-7, 2005; Minocqua, WI; 30.

Kalscheur, D. "Toxicology for Coroners And Medical Examiners." Annual January Educational Conference for Coroners, Medical Examiners, and Deputies, January 11-12, 2005; Wausau, WI; 80.

Kurtycz, D., C. Wiseman, and R. Whalen. "The Reality of Cytology Proficiency Testing: Eliminating the Fear Factor!" ASCP Teleconference, February, 2005.

Kurtycz, D. "Anatomy of Head, Eye and Neck." Devil's Head Ski Patrol, Fall 2004.

Kurtycz, D., and R. Cornwell. "Transtracheal and Transbronchial Fine Needle Aspiration." ASCP Teleconference, September 30, 2004; 1000.

Kurtycz, D. "Transtracheal and Transbronchial Fine Needle Aspiration." University of Texas Health Science Center, Distance Education, Teleconference Network of Texas, August 24, 2004.

Laessig, R. "Living With (Un) Reality: CLIA, EQC and Today's Regulations." Medical Technology Lecture, May 11-12, 2005; Duluth, MN.

Laessig, R. "Successful Strategies for Managing Multiple Regulators." American Association for Clinical Chemistry (AACC), June 26-28, 2005; Los Angeles, CA; 150.

Laessig, R. Five Lectures: "The Physician's Office Laboratory – Past, Present and Future", "QA, QC, PT: Connected but Different", "QC (and QA): A Fresh Perspective", "Practical Proficiency Testing", and "Putting It All Together". Clinical Laboratory Accreditation and Education (COLA), October 20-22, 2004; Baltimore, MD.

Laessig, R. "Utilizing Web-based Technologies, the Next Frontier in Environmental Public Health." Association of Public Health Laboratories (APHL)/Association of State and Territorial Health Officers (ASTHO) Conference, September 28 – October 1, 2004; Minneapolis, MN.

Liddicoat, L. "2005 Legal Update - Toxicology Aspects of Act 97." February 10, 2005; Western Wisconsin Technical College, Sparta, WI; 54.

Liddicoat, L. "2005 Legal Update - Toxicology Aspects of Act 97." March 24, 2005; Nicolet Area Technical College, Rhinelander, WI; 45.

Liddicoat, L. "2005 Legal Update - Toxicology Aspects of Act 97." April 5, 2005; Southwest Wisconsin Technical College, Fennimore, WI; 88.

Liddicoat, L. "2005 Legal Update - Toxicology Aspects of Act 97." April 28, 2005; Indianhead Technical College, Ashland, WI; 30.

Liddicoat, L. "2005 Legal Update - Toxicology Aspects of Act 97." May 31, 2005; Madison Area Technical College, Madison, WI; 47.

Liddicoat, L. "Alcohol, Drugs and Wisconsin Drivers." Deforest EMS In-Service Training, September 16, 2004; Deforest, WI; 50.

Liddicoat, L. "Panel Discussion: Act 97; Operating with a Detectable Level of a Controlled Substance." 2004-2005 Municipal Judge Traffic Seminar, August 26-27, 2004; LaCrosse, WI; 90.

Liddicoat, L., and P. Harding. "Under the Influence of Alcohol and Drugs- Myths and Realty. Impaired Driving." 16th Annual Forensic Science Seminar, October 27, 2004; Milwaukee, WI; 40.

Liddicoat, L., P. Harding, and P. Nell. "A PBT for Drugs?- ROSITA2 Research Project." 30TH Annual Governor's Conference on Highway Safety, August 19, 2004; Appleton, WI; 51.

Liddicoat, L., and P. Nell. "Drug Testing Issues: Act 97 and ROSITA2." 11th Annual Traffic and Impaired Driving Law Program, March 29-30, 2005; Appleton, WI; 75.

McDonald, R. "STI Update 2004: Interpretation of Laboratory Results in a Changing World." Wisconsin Family Planning and Reproductive Health Association Annual Meeting, October 26, 2004; Wausau, WI; 40.

McManaway, D. "The Three C's of Alcohol Testing and Testimony: Curves, Charts and Calculations." 2005 Statewide Prosecutor Education & Training (SPET) Conference, June 13, 2005; Green Lake, WI; 40.

Meisner, L. "Gene-environment interactions in the evolution of breast cancer." UW Breast Center personnel, August 24, 2004; 11.

Meisner, L. "What Can Embryonic Stem Cells Teach Us About Cancer?" Department of Population Health Sciences at the HSLC, Dec. 13, 2004; 40.

Meisner, L. "Cytogenetics of Trisomy 13." Perinatal Conference at Meriter Hospital, January 18, 2005; 15.

Neuser, T. "Alcohol & Drugs in Drivers: The Bare Essentials." Monthly in-service meeting of Dane County Chemical Assessors, April 26, 2005; Madison, WI; 12.

Neuser, T., and S. Percy. "Blood Alcohol Testing: Issues & Answers." 11th Annual Traffic and Impaired Driving Law Program, March 29-30, 2005; Appleton, WI; 69.

Pfister, J. "Epidemiology at the Wisconsin State Laboratory of Hygiene." Wisconsin Epidemiology Network Meeting, March 4, 2005; Madison, WI.

Shult, P. "Emerging Diseases Update: The Threat of Pandemic Influenza." WISCLS, April 7, 2005; Racine, WI; 150.

Shult, P. "Emerging Infectious Diseases: What's New?" Annual Fritz Wenzel Science Conference, Marshfield Clinic, February 12, 2005; Marshfield, WI; 75.

Shult, P. "The Threat of Pandemic Influenza." WAHMR annual meeting, March 5, 2005; Wisconsin Dells, WI; 75.

Shult, P. "Update on Role for Laboratory Networks in Emergency Response." Annual Mycobacteriology Laboratory Network meeting, November 3, 2004; Madison, WI; 40.

Shult, P., and Meyer, J. "Hazmat and the Public Health Laboratory." International Hazmat Conference, June 3-5, 2005; Baltimore, MD; 24

Wagnitz, M. "Math Use in Toxicology." Madison East High School, May 17, 2005; Madison, WI; 45.

Warshauer, D. "The Future of TB Laboratory Services." Wisconsin Mycobacteriology Laboratory Network Annual Conference, November 3, 2004; Madison, WI; 50.

Warshauer, D. "Laboratory Diagnosis of Pertussis." Wisconsin State Pertussis Task Force, February 2, 2005; 30.

VII. Programs, Workshops and Courses Presented by the WSLH

Kirk, C. "Introduction to the Wisconsin Health Alert Network." Preparing for Emergencies: Regional Meetings for Wisconsin Environmental Testing Laboratories; Three Wisconsin locations - Madison, Green Bay, Eau Claire; February 3, 2005 – March 3, 2005.

Kirk, C., P. Shult, E. Reisdorf, C. Kiesner, M. Wedig, T. Whyte, and Virology Staff. Multiple Presentations at Wisconsin Virology Conference, June 30, 2005; Madison, WI; 35.

Kirk, C., and T. Haupt. "Respiratory Season Update – Surveillance & Laboratory Testing for Influenza & Other Respiratory Viruses." Teleconference, October 20, 2004. Meisner, L. Two-week course on Cytogenetics given to the School of Cytotechnology.

Meisner, L. "Why Stem Cells aren't Malignant." CME Lecture to Cytogenetics Lab personnel, January 25, 2005.

Shult, P. "Measles, Mumps and Rubella." Wisconsin Annual Virology Conference, June 30, 2005; Madison, WI; 20.

Shult, P. Presentations made at four regional Wisconsin Environmental Laboratory Workshops held statewide, February-March 2005; Average attendance 20 people.

Shult, P. Presentations made at six WLRN Regional Workshops held statewide, May 2005; Average attendance 30 people.

Shult, P., C. Kirk, and C. Matzinger. "Wisconsin's Laboratory Response Network (WLRN): 2004 in Review." Teleconference, August 25, 2004.

Shult, P., C. Kirk, and M. Wedig. Multiple Presentations at Regional Meetings of the Wisconsin Laboratory Response Network; Six Wisconsin Locations – Turtle Lake, Wausau, Green Bay, Waukesha, Madison, La Crosse; May 3, 2005 – May 12, 2005.

Stewart, J., III, J. Chapin, D. Kurtycz, and J. Shalkham. Wisconsin State Laboratory of Hygiene Distributed Learning Pilot: Cytology (Content Evaluation, Image Evaluation and Copyright Review with Formal Implementation Scheduled for Fall 2005), December 2004 to present.

Tans-Kersten, J., and Warshauer, D. Wisconsin Mycobacteriology Laboratory Network Annual Meeting , November 3, 2004; Crown Plaza Hotel, Madison, WI; 70.

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

Bowman, G., A. Degnan, and S. Kluender. "Train the Trainer" Workshop with Minnesota Department of Health, Environmental Laboratory Certification Program. May 9-10, 2005; Minneapolis, MN; 35.

Burmeister, B., D. Hassemer, and R. Laessig. "2005 WSLH/Dade Users' Seminar." WSLH/Dade Behring, April 21, 2005; Pewaukee, WI.

Gallagher, S. 2004 Ortho Clinical Diagnostics and WSLH Customer Seminar. October 27-28, 2004; Country Springs Hotel, Pewaukee, WI.

Gallagher, S. 2004 Contemporary Issues in the Clinical Laboratory. November 7, 2004; NWTC, Green Bay, WI.

Gruetzmacher, G., E. Hands, and J. Tierney. "Industrial Hygiene Measurement for the non-Industrial Hygienist." 63rd Annual Safety and Health Congress and Exposition, April 18, 2005; Wisconsin Dells, WI.

Gruetzmacher, G. "OSHA Update – Regulatory Agenda." 63rd Annual Safety and Health Congress and Exposition, April 19, 2005; Wisconsin Dells, WI.

Gruetzmacher, G. "Industrial Hygiene Measurement for the non-Industrial Hygienist." Lomira, WI.

Gruetzmacher, G. "OSHA Recordkeeping Workshop." January 13, 2005; Brookfield, WI.

Gruetzmacher, G. "OSHA Recordkeeping Workshop." December 6, 2004; Eau Claire, WI.

Gruetzmacher, G. "OSHA Recordkeeping Workshop." December 1, 2004; Mosinee, WI.

Gruetzmacher, G. "OSHA Recordkeeping Workshop." November 22, 2004; Appleton, WI.

Gruetzmacher, G. "OSHA Recordkeeping Workshop." November 15, 2004; Madison, WI.

Gruetzmacher, G. "Workplace Violence Workshop." July 1, 2004; Appleton, WI.

Hindler, J. "Antimicrobial Susceptibility Testing 2005 Series." Wisconsin Laboratory Response Network teleconference series, February 24, March 10, March 31, April 10, 2005.

Kazmierczak, J., and P. Mitchell. "Wisconsin Tick-borne Diseases Part 1: *Ehrlichia* and *Babesia*." Wisconsin Laboratory Response Network teleconference series, June 15, 2005.

Laessig, R. "2004 CLIA (and CAP and JCAHO) Regulations." Vitros Conference, October 28, 2004; Pewaukee, WI.

McDonald, R. "WSLH Update - Adjusted Chlamydia & Gonorrhea SSC: Impact After One Year." Department of Public Health Family Planning Program-WSLH Teleconference. December 7, 2004; 60.

McDonald, R. "WSLH Update - Updates on STD's in the News." Department of Public Health Family Planning Program-WSLH Teleconference, April 19, 2005; 60.

IX. University Courses Taught or Lectures Presented

Note: Last number listed indicates number of people attending.

Barry, J. International Brotherhood of Boilermakers-Advanced Course #2006006, UW Extension School for Workers, "Industrial Hygiene Overview & Toxicology." July 20, 2004; 16.

Barry, J. International Brotherhood of Boilermakers-Basic Course #2006005, UW Extension School for Workers, "OSHA Policies & Procedures, IH Overview." July 19, 2004; 8.

Barry, J. International Brotherhood of Electrical Workers, UW Extension School for Workers, "OSHA, Most Frequently Cited Standards; Electrocutions Data." September 27, 2004; 15.

Bowman, G., and R. Mealy (WI DNR 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 Program Industrial Hygiene Course, "Introduction to the Industrial Hygiene Laboratory." March 29-31, 2005; 15.

Ellinger, T. Clinical Laboratory Science 536, Mycology Laboratory. February 23, 2005.

Haase, B. Clinical Laboratory Science 536, "Viral Hepatitis." April 22, 2005; 24.

Haase, B. Clinical Laboratory Science 536, "Human Immunodeficiency Virus." May 4, 2005; 24.

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

Hedman, C., and C. Powell. Clinical Laboratory Science 536, Lab Diagnosis-Infectious Disease II. March 11, 2005; 30.

Hemming, J. Environmental Toxicology 606, "Topics in Environmental Toxicology - Endocrine Disruptors in the Environment." March 1, 2005.

Hemming, J. Molecular and Environmental Toxicology Seminar, "The use of bioassays and chemical analyses to study the removal of endocrine active compounds in water reclamation processes." September 9, 2004.

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

Hoffman, G. Clinical Laboratory Science, "Newborn Screening Instrumentation." March 6, 2005; 36.

Hoffman, G. Clinical Laboratory Science, "Wisconsin Newborn Screening Program." October 6, 2004; 23.

Hoffman, G. UW- Madison Genetic Counselor Rotation, "Introduction to Newborn Screening." July 2004 – June 2005; WSLH; 4.

Hoffman, G. UW- Madison Pediatric Resident Rotation, "Introduction to Newborn Screening." July 2004 – June 2005; WSLH; 12.

Karner, D. Molecular and Environmental Toxicology 606, "Cyanobacteria and Cyanotoxins: An overview." February 15, 2005; 80.

Kirk, C. Third-Year Doctor of Pharmacy Students, "Influenza & Rapid Test Kits: What You Should Know." April 25, 2005.

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

Kurtycz, D. Clinical Laboratory Science 536, Lectures on Mycology, Parasitology and Virology. Spring 2005.

Kurtycz, D. Neoplasia, Sophomore Medical Student Lecture and Colo-Rectal Panel. Fall 2004.

Kurtycz, D. Pathology 703, Lectures on Wound Healing and Neoplasia plus Student Laboratory and Discussions. Spring 2005.

Kurtycz, D. Pathology 803, Graduate student course on Neoplasia. Fall 2004.

Kurtycz, D. School of Cytotechnology Lectures, 10 lectures per semester.

Laessig, R. "Leadership and Personality Profiles." Lecture to UW Medical Technology Course taught by Prof. Sharon Ehrmeyer.

Laessig, R. "Proficiency Testing." Clinical Laboratory Science 525. September 2004.

Meisner, L. Lecture in Medical Genetics 702, Cancer Genetics. February 9, 2005.

Moen, T. University of Wisconsin-Madison, Law School, Labor Relations Law 745, sec.1, "OSHA Lecture." November 19, 2004; 35.

Moen, T., and G. Gruetzmacher. University of Wisconsin-Madison, Law School, Protective Labor Legislation, Law 747, "OSHA Lecture." November 19, 2004; 35.

Pfister, J. "Epidemiology of Bioterrorism." Medical Microbiology & Immunology 554, Infectious Diseases and Bioterrorism. September 28, 2004.

Pfister, J. UW-LaCrosse Clinical Microbiology Graduate Program, "Core Functions of Public Health Laboratories." January 11, 2005; 2.

Powell, J. Zoonoses 091-115, "Rabies Information for the Veterinary/Animal Care Professional. April 19, 2004; 63.

Shalkham, J. Clinical Laboratory Science 404, "Instrumentation in Medical Technology."

Shalkham, J. Clinical Laboratory Science 410, "Basic Cytology and Laboratory Procedures."

Shalkham, J. Clinical Laboratory Science 540, "The Female Genital System."

Shalkham, J. Clinical Laboratory Science 543, "The Respiratory System."

Shalkham, J. Clinical Laboratory Science 544, "Cytology of the Breast."

Shalkham, J. Clinical Laboratory Science 546, "The Gastrointestinal System."

Shalkham, J. Clinical Laboratory Science 549, "Miscellaneous Cytology."

Shalkham, J. Clinical Laboratory Science 625, "Laboratory Operations and Quality Control."

Shalkham, J. Clinical Laboratory Science 630, "Seminars in Clinical Cytology."

Shult, P. Clinical Laboratory Science 536, Medical Virology, six-week module. Spring, 2005; 28.

Shult, P., E. Reisdorf, B. Haase, T. Whyte, C. Kiesner. Clinical Laboratory Science 536, "Virology". March 26 - May 7, 2005.

Shult, P. Marquette University Public Health Course, "Emerging Diseases." March 10, 2005; Milwaukee, WI; 55.

Shult, P. Medical Microbiology and Immunology 554, "Emerging Infectious Diseases and Bioterrorism." Fall, 2004; 36.

Shult, P. UW-La Crosse Microbiology 500, "Emerging Infectious Diseases." November 4, 2004; 12.

Sonzogni, W. Civil and Environmental Engineering 501, "Water Analysis Intermediate." Fall 2004; 20.

Stanton, N. Environmental Toxicology 308, "Toxic Elements." February 18, 2005; 100+.

Stewart, J., III. Clinical Laboratory Science 536, Malaria, Pathology and Laboratory Diagnosis. Spring 2005.

Stewart, J., III. Clinical Laboratory Science 536, The Biology, Pathology and Laboratory Diagnosis of Nematodes. Spring 2005.

Stewart, J., III. Clinical Laboratory Science 545, Renal Pathology. Spring 2005.

Stewart, J., III. Clinical Laboratory Science 547, Anatomy, Physiology and Pathology of Body Cavities-Effusions. Spring 2005.

Stewart, J., III. Clinical Laboratory Science 549, Salivary Gland Anatomy and Pathology: FNA of Salivary Glands. Spring 2005.

Stewart, J. WSLH School of Cytopathology Lectures. Five lectures per semester, 2005.

Tierney, J. Edgewood College School of Nursing, Nursing 461, "OSHA and NIOSH Issues for Occupational Health Nurses." October 28, 2004; 25.

Tierney, J. Edgewood College School of Nursing, Nursing 461, "OSHA and NIOSH Issues for Occupational Health Nurses." March 11, 2005; 27.

Tortorelli, J., and W. Sonzogni. Civil and Environmental Engineering 503, "Water Analysis Intermediate Laboratory." Fall 2004; 15.

Warshauer, D. Clinical Laboratory Science 536, "Contaminants, Subcutaneous Mycoses, and Actinomyces." February 23, 2005; 24.

Warshauer, D. Clinical Laboratory Science 536, "Infections due to Yeasts." March 2, 2005; 24.

Warshauer, D. Clinical Laboratory Science 536, "Introduction to Medical Mycology." February 18, 2005; 24.

Warshauer, D. Clinical Laboratory Science 536, Mycology Laboratory. February 18-March 18, 2005; 24.

Warshauer, D. Clinical Laboratory Science 536, "Systemic Mycoses Part 1." March 4, 2005; 24.

Warshauer, David. Clinical Laboratory Science 536, "Systemic Mycoses Part 2." March 9, 2005; 24.

Warshauer, D. Clinical Laboratory Science 536, "The Dermatophytes and Superficial Mycoses." February 25, 2005; 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.

Burmeister, B. MATC MLT practicum, "Proficiency Testing." January 14, 2005.

Burmeister, B. MATC MLT practicum, "Thyroid Physiology, Diagnosis and Follow-up." January 14, 2005.

Davis, T., and C. Kiesner. MATC-Accelerated Medical Laboratory Technicians virology lecture, June 29, 2005; 9.

Kiesner, C., and E. Reisdorf. University of Wisconsin-La Crosse Clinical Microbiology graduate student rotation. January 10-21, 2005; WSLH; 2.

Liddicoat, L. NIDA Summer Institute, "Alcohol and Other Drug Abuse: Implications for Educators." July 28, 2004; WSLH - Agriculture Drive. 24.

Meisner, L. Ways of Knowing Biology Class, Methods for studying human chromosome studies from womb to tomb (Research exploration). March 28, 2005; 5.

Meisner, L. Topics in Medical Genetics, Genetics of Jewish Disorder - Bloom's Syndrome. September 28, 2004.

Neuser, T. Madison Area Technical College MLT Practicum, "Clinical and Forensic Toxicology." January 13, 2005; WSLH - Agriculture Drive; 7.

Newborn Screening Staff. UW-CLS Student Rotation. January 10-14, March 21-24, May 9-13, 2005; 3.

Newborn Screening Staff. MATC Medical Technology Student Rotation. January 14, 2005; 7.

Newborn Screening Staff. UW Medical Student Rotation. July 7-15, August 3-13, October 11-22, 2004; April 25-May 6, 2005; 4.

Pfister, J. Madison Area Technical College Clinical Lab Technician Program, "Core Functions of Public Health Laboratories." January 11, 2005; 7.

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. DNR fish hatchery staff training, "Refresher training: Field measurement of phosphorus and nitrogen to determine pond fertilization efficiency." April, 2005; 1.

Barry, J. American Foundry Society Annual Health & Safety Conference, OSHA consultation. August 16-18, 2004; Indianapolis, IN; 120.

Barry, J. Stateline Safety Council, OSHA Recordkeeping. June 23, 2005; Beloit, WI; 40.

Barry, J., and T. Moen. Milwaukee OSHA General Industry Safety Days, OSHA Respiratory Protection Standard. June 16, 2005; Brookfield, WI; 25.

Bowman, G., and R. Mealy (WI DNR Laboratory Certification Program). Workshop presented at the Wisconsin Wastewater Operators Association Annual Conference, "General Chemistry Relationships in Water and Wastewater Treatment." October 26, 2005; Wisconsin Dells, WI; 75.

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

Bowman, G., and R. Mealy (WI DNR Laboratory Certification Program). Wisconsin Wastewater Operators Association Northwest Regional Meeting, "Limit of Detection." February 10, 2005; Bloomer, WI; 60.

Gruetzmacher, G. WI Concrete Association Annual Meeting, "Silica Dust Exposures and Control." December 17, 2004; Wisconsin Dells, WI.

Gruetzmacher, G. Wisconsin Association of Homes and Services for the Aging, Annual Conference, OSHA Update for Long Term Care. May 6, 2005; Wisconsin Dells, WI; 45.

Gruetzmacher, G., and E. Hands. For Badger Chapter of APIC, Respirator Fit-Testing and OSHA Update. July 13, 2004; Fennimore, WI; 57.

Gruetzmacher, G., and T. Moen. North East APIC chapter, Respirator fit-testing and OSHA update. September 10, 2004; Winnebago, WI; 26.

Kirk, C. Bureau of Communicable Diseases Spring Seminar Series, "Emergency Laboratory Response: Just In Case/Just In Time." April 13-28, 2005; Five sites in Wisconsin: Minocqua, Eau Claire, Green Bay, Madison, Oconomowoc.

Meisner, L. Northwest Technical College, Lecture and lab tour. June 26, 2005; 26.

Meisner, L. Medical Technology Class, Lecture and lab tour. March 11, April 1, 2005.

Moen, T. NC APIC Chapter, OSHA update, change in status of OSHA Health Consultation program with move to SLH, issues of occupational health surveillance. December 10, 2004; Wausau, WI; 30.

Moen, T. State Emergency Medical Services Trainer Conference, OSHA update. February 24, 2005; Appleton, WI; 150.

Newborn Screening Staff. Kettle Moraine High School, Newborn Screening Laboratory Tour. December 13, 2004; WSLH; 38.

Powell, J. DATCP Ag 13 Training, "Rabies Diagnosis and Specimen Submission." November 16, 2004; 71.

Shult, P. CDC Workshop, Georgia Public Health lab. October 25-29, 2004 and April 25-29, 2005; 24 and 24.

Shult, P. Eight Regional Pandemic Influenza Tabletop Exercises. July – December, 2004; 400.

Shult, P. Four Regional Forensic-Epidemiology Training Workshops, "Role of the Public Health Laboratory in Emergency Response." July to November, 2004; 200.

Shult, P. Sauk Prairie Hospital weekly continuing education seminar, "Pandemic Influenza." November 16, 2004; 35.

Shult, P., C. Kirk, and C. Matzinger. National audioconference sponsored by National Laboratory Training Network, "Influenza 2004: Meeting the Laboratory Challenges." December 14, 2004; 2,295.

Stewart, J., III. Cytology lectures for UW Pathology Residents.

Stewart, J., III. Teaching pathology fellows and residents during procedures and at the sign-out scope.

Tierney, J. Lead Poisoning in Hispanics in WI. For Migrant Services Outreach. October 12, 2004; Elkhorn, 20 council members.

Tierney, J. South Central Wisconsin Occupational Health Nursing Association, OSHA Updates. November 18, 2004; Fort Atkinson, WI; 16.

Tierney, J. WI Arthritis Advisory Council, Occupational Health Nursing Resources of the prevention of Arthritis. October 14, 2004; Madison, WI; 18.

XII. Any Other Research or Outreach NOT Included Elsewhere

Note: Last number indicates number of people attending.

Chapin, J., D. Degenhardt, C. Kirk, P. Shult, and W. Sonzogni. "Preparing for Emergencies: Regional Meetings for Wisconsin Environmental Testing Laboratories." February-March, 2005; Three sites in Wisconsin: Madison, Green Bay, Eau Claire.

Degenhardt, D. "Chemical Terrorism-Region V." November 17, 2004; Atlanta, GA; 30.

Degenhardt, D., and C. Kirk. "Integrated Response Plan and Emergency Preparedness." July 2, 2004; 13 hospital laboratories.

Gruetzmacher, G. LaCrosse Area Emergency Exercise. August 8, 2004.

Gruetzmacher, G. Marinette Area Emergency Exercise. September 21-23, 2004.

Kurtycz, D., and J. Stewart. Images Submitted and Accepted for the American Society of Clinical Pathology, Board of Registry, Cytotechnology Examination. November 2004.

Matzinger, C., and A. Spallato. "Integrated Response Plan and Emergency Preparedness." July 2004; 17 hospital laboratories.

McDonald, R. National Chlamydia Laboratory Committee Teleconference. August 12, 2004; 15.

Meisner, L. Mechanisms in Conjoined Twinning, Presentation for a British TV documentary. January 18, 2005; Boston, MA.

Moen, T. OSHA Homeland Security Conference call, monthly, all states, enforcement and consultation as well as the OSHA Regional and National Offices.

Moen, T. Faculty from the University of Guadalajara, Occupational Health Programs in Wisconsin, how OSHA was structured, PB issues. September 20, 2004; Madison, WI; 8.

Moen, T. WCS annual Safety Congress, change in status of the OSHA Health Consultation Program and new home at SLH. April 20, 2005; Wisconsin Dells, WI; 600.

Moen, T. Statewide Asthma Conference, Occupational Asthma Break-out sessions. May 13, 2005; Madison, WI; 30.

Spallato, A., and D. Degenhardt. Wisconsin Association of Hazardous Materials Responders Annual Meeting, "Chemical Unknowns and FTIR Analysis." March 4, 2005; Wisconsin Dells, WI; 75.

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 L. West.

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

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

Association of Public Health Laboratories, "Environmental Health Post-Doctoral Traineeship." 2003-2004, \$40,000 Primary Investigators: Sonzogni, W., and R. Laessig.

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

Centers for Disease Control and Prevention, "Assessment of Laboratory Performance and Practices for Direct detection of Myconium 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 D. Warshauer.

J. Michael Walsh Group, "Evaluation of On-Site Oral Fluid Drug Testing Devices." October 2003-September 2005, \$69,000. Site Coordinator: Liddicoat, Laura J.

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

U. S. Environmental Protection Agency, "Toxicity and Estrogenic Activity of Polybrominated Diphenyl Ethers (PBDEs)." 2004, \$36,000. Primary Investigators: Harrahy, E., and W. Sonzogni.

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

US Public Health Service, "Lead and EP Proficiency Testing Program." 2002-2004, \$750,000. Primary Investigator: Stanton, N.

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

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

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

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

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

Degnan, A. Co-Chair, "Partners-In-Giving UWHC Employees Combined Campaign," 2004 to present.

Hanby, L. UW HIPAA Coordinator Committee, 2003-present.

Hintzman, P. UW Chancellor's HIPAA Task Force, November 2002 – present.

Hintzman, P. UW Health Care Component HIPAA Coordinators Workgroup.

Hintzman, P. Community Advisory Group to UW Medical School MPH Program.

Kaufman, K. WSLH Safety Committee. 1999 to present.

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

Klawitter, J. UW Medical School Public Health Education and Training Subcommittee, 2005-present.

Kurtycz, D. Continuing Medical Education Committee.

Kurtycz, D. UWMF Council of Faculty Committee.

Laessig, R. Population Health Sciences Executive Committee.

Meisner, L. U.W. Madison Campus Child Care Initiative.

Meisner, L. Admissions Committee of the Dept. of Population Health Sciences.

Meisner, L. Interviewer for Medical School Admissions Committee.

Metcalf, T. Co-Chair, "Partners-In-Giving UWHC Employees Combined Campaign," 1999 to present.

Moen, T. UW search committee for Director of UW Safety Department, 2005.

Moen, T. Judge for the Evans Moot Court Competition, hosted by the UW Law School, April 8, 2005.

Sonzogni, W. Chair of the University Chemical Safety Committee, 1998- present.

Sonzogni, W. Faculty Committees for Ph.D. and M.S. Dissertations.

Sonzogni, W. Civil and Environmental Engineering Department's Executive Committee, 1983-present.

Sonzogni, W. Environmental Chemistry and Technology Program Executive Committee, 1983-present.

Sonzogni, W. Molecular and Environmental Toxicology Program Steering Committee, 1999-present.

Sonzogni, W. Water Resources Management Executive Committee, 1994-present.

Sonzogni, W. UW-Madison Speakers Bureau, 1999-present.

Stewart, J., III. Anatomic Pathology Image Database for Educational and Clinical Use, Development in Association with Radiology PACS, McKesson Information Systems, Olympus Corp., 2005.

Stewart, J., III. Microscope Simulation in Medical Education – Initial Development, 2005.

Stewart, J., III. Implementation of a Manual Method for Liquid-Based Gynecologic Cytology, 2005.

Stewart, J., III. Creation of a National Database and Web Utility for the Clinical Evaluation and Therapy of Native Americans, Project of the University of Wisconsin School of Medicine Center for the Study of Cultural Diversity in Healthcare. Center funded via NIH Grant, 2005.

Vingum, L. University of Wisconsin Equity and Diversity Committee, 2004-2005.

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

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

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

Barry, J. National American Foundry Society 10Q Industrial Hygiene Committee, 1995-present.

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

Bowman, G. Member of the Wisconsin Wastewater Operators Association Technical Program Committee, 2005.

Bowman, G. Vice-chair of the Wisconsin Laboratory Standards Review Council, 2000 - present.

Burmeister, B. Chairperson of the National Environmental Laboratory Accreditation Conference Fields of Proficiency Testing Subcommittee, 2002-2005.

Burmeister, B. Member of Board of Directors, National Environmental Laboratory Accreditation Conference, 2003-2004.

Burk, T. President of Wisconsin Section of the American Industrial Hygiene Association, 2004-2005

Clary, A. Member of the Metals Technical Task Group, "Standard Methods for the Examination of Water and Wastewater", 1994-present.

Cochems, A. Member of the Wisconsin Bureau of Transportation Safety Drug Recognition Examiner (DRE) Oversight Committee, 2002 – Present.

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

Coyle, B. NIOSH Committee on Hazardous Drugs (anti-neoplastic agents), 2001-present.

Degenhardt, D. Water Contamination Response Workgroup, November 2004-July 2005.

Degnan, A. Member of the Wisconsin Water Association Awards Committee, 2005.

Degnan, A. Member of the American Water Works Association International Symposium on Waterborne Pathogens planning committee. 2004 – present.

Degnan, A. Member of the American Water Works Association Microbial Contaminants Research Committee. 2002 – present.

Degnan, A. Member of the American Water Works Association Organisms in Water Committee, 2003 – present

Degnan, A. Member of the Wisconsin Water Association Public Relations Committee, 2003 – present.

Degnan, A. Vice Chair of the Wisconsin Water Association Research Committee, 2005.

Dobson, L. Member of the American Society of Testing Materials Subcommittee D22.04 on Workplace Atmospheres.

Ellinger, T. Member of the American Society of Testing Materials International committee D22 on Air Quality, Subcommittee D22.08 on Sampling and Analysis of Mold.

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

Gruetzmacher, G. American Industrial Hygiene Association, Non Ionizing Radiation Committee, 1995-present.

Gruetzmacher, G. American Industrial Hygiene Association, Ergonomics Committee, 1996-present.

Gruetzmacher, G, American Industrial Hygiene Association, Occupational Epidemiology Committee, 2002-present.

Gruetzmacher, G. Ergonomics Advisory Committee, Dept of Occupational and Environmental Safety and Health, University of Wisconsin Whitewater, 2003-present.

Gruetzmacher, G. OSHA Strategic Plan Health Outcomes Taskforce, 2003-present.

Gruetzmacher, G. Wisconsin Council of Safety, Safety Congress Planning Committee, 1990-present

Hands, E. City of Madison Personnel Board, 2002-present.

Hands, E. City of Madison Ethics Board, March 2005 to present.

Hands, E. Board member of Vera Court Neighborhood Center, 2001-present.

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

Harding, P. Member of the National Safety Council's Committee on Alcohol and Other Drugs, 1986 – present.

Hintzman, P. Member, State Public Health Plan Oversight Committee.

Hintzman, P. Member, Medical College of Wisconsin Consortium on Public and Community Health Board, October 2002- present.

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

Hoffman, G. APHL QA/QC - Unsatisfactory Specimens Webcast Committee, 2005

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

Hoffman, G. Member, California Tandem Mass Spectrometry Advisory Committee, 2002 – Present.

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

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

Hoffman, G. Member, HRSA Region 4 Public Health Infrastructure Cluster– Chair, Short Term Follow Up Team.

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

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

Hoffman, G. Member, Public Health Informatics Institute- Data Integration Committee, 2004 to present.

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

Hoffman, R. Committee member, “Water Contamination Response Workgroup” State of WI, 2004 – 2005.

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

Hoffman, R. Invited reviewer, “Standard Analytical Methods for Use During Homeland Security Events” US EPA, July 2004 - present.

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. Served on the Water Contamination Response Workgroup, November 2004-July 2005.

Hoffman, R. Steering committee member, AWWA "International Symposium on Waterborne Pathogens", 2004 - present.

Hoffman, R. Steering Committee, manual revision, co-editor Protozoon section "AWWA Waterborne Pathogens Manual" 2005 revision, 2004 – present.

Johnson, W. Member of the Society of Forensic Toxicologists Continuing Education Committee, 2002-2004.

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

Karner, D. Midwest Chapter of Environmental Toxicology and Chemistry Board Member, 2004-Present.

Kirk, C. Member, Great Lakes Border Health Laboratory Sub-committee, 2004 - present.

Kirk, C. Member, Pandemic Influenza Response Preparedness Planning for Wisconsin. 2001 - present.

Kirk, C. Served on the Water Contamination Response Workgroup, November 2004-July 2005.

Klawitter, J. Co-Chair of Wisconsin Public Health Association Public Affairs Committee, 2003 – 2005.

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

Kluender, S. Member of Joint Task Group (JTG) for Section 9222 Membrane Filter Technique for Members of the Coliform Group for Standard Methods for the Examination of Water and Wastewater.

Kurtycz, D. Editorial Board of Diagnostic Cytopathology, April 2003.

Kurtycz, D. ASCCP (American Society for Colposcopy and Cervical Pathology), Pathology Committee, 2004-2006.

Kurtycz, D. ASCCP, Practice Committee, 2004-2006.

Kurtycz, D. Health Care Financing Authority (HCFA) Pathologist Inspector in Cytology through the American Society of Cytotechnologists, March 2001-present.

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

Kurtycz, D. Member of ASCP Teleconference Committee.

Kurtycz, D. Member of American Society for Coloscopy and Cervical Pathology, 1994-present.

Kurtycz, D. Member of American Society of Cytology (ASC), Chair of ASC Website Editorial Committee; Member of Cytology Education Taskforce and Chair of Public Information Committee, 1996-2003. Elected to ASC Executive Board 2004.

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

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

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

Kurtycz, D. Member of RISE (Resident In Service Exam) Committee, 2003-2004.

Kurtycz, D. Member of Wilderness Medical Society, 1999-2004.

Kurtycz, D. Member of Wisconsin Clinical Cancer Council, 2001-present.

Kurtycz, D. Reviewer for Archives of Pathology & Laboratory Medicine, College of American Pathologists.

Kurtycz, D. Reviewer for Cancer Cytopathology, Wiley InterScience.

Kurtycz, D. Reviewer for Diagnostic Cytopathology, Wiley-Liss Publications.

Kurtycz, D. Reviewer for Journal of Gynecologic Oncology.

Kurtycz, D. Reviewer for Journal of Lower Genital Tract Disease, Blackwell Science.

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

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

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

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

Laessig, R. Member, ASTHO Environmental Health Policy Committee, 2003 – Present.

Laessig, R. Member and Chair, Environmental Health Executive Committee, APHL, 1999-Present.

Laessig, R. Member, NCEH/ASTDR Board of Scientific Counselors (CDC), November 2003-Present.

Laessig, R. Member, State Health Plan Oversight Workgroup, 2003-Present.

Laessig, R. Wisconsin Public Health Advisory Council Executive Committee, 1999-Present.

Meisner, L. Grant Reviewer for the Alberta Cancer Board of Canada.

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

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

McDonald, R. Member of the Wisconsin Adult STI Prevention through Education Project development committee, 2004-present.

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

Moen, T. Chair, City of Madison Public Safety Review Board, 1998-present.

Moen, T. Served on the OSHCON Board of Directors representing Region V OSHA Consultation Programs, 1997-2005.

Omilianowski, D. Secretary of Wisconsin Section of the American Industrial Hygiene Association, 2004.

Pfister, J. Participated in the Wisconsin Epidemiology Network, Wisconsin Division of Public Health, 2004-Present.

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

Pfister, J. Served on 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. Served on the Public Health Information Network (PHIN) Business Management Committee, and Quality Improvement Workgroup, Wisconsin Division of Public Health, 2004-Present.

Pfister, J. Served on 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.

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

Powell, C. Member American Society of Testing Materials International Committee D22 on Air Quality Subcommittee D22.08 on Sampling and Analysis of Mold.

Powell, C. Member of American Industrial Hygiene Association's Laboratory Accreditation Committee.

Powell, C. Member of American Industrial Hygiene Association EMLAP Task Force, Oct 2003-Present.

Powell, J. Member, U.S Public Health Service Rabies DFA Protocol Committee, 2000-present.

Shalkham, J. Member of American Society for Clinical Pathology.

Shalkham, J. Member of American Society for Cytopathology.

Shalkham, J. Member of American Society for Cytotechnology.

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

Shult, P. Great Lakes Border Health Laboratory Subcommittee, 2005.

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

Shult, P. Member of Association of Public Health Laboratories Training and Education Committee, 2000-2005.

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

Shult, P. Member of National Center for Public Health Laboratory Leadership Advisory Board, 2002-2005.

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

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

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

Shult, P. Served on the Water Contamination Response Workgroup, November 2004-July 2005.

Sonzogni, W. Associate Editor of the Journal of Great Lakes Research, 1990- present.

Sonzogni, W. Joint Task Group Member of Standard Methods for the Examination of Water and Wastewater, American Public Health Association, American Water Works Association and Water Environment Federation, 1985- present.

Sonzogni, W. Member of the American Water Works Association (Wisconsin Section) Research Committee, 1996- present.

Sonzogni, W. Member of the American Water Works UV-Oxidation Project Advisory Committee, 2004- present.

Sonzogni, W. Member of the Association Laboratory Committee, 2001- present.

Sonzogni, W. Member of the City of Madison-Dane County Joint Board of Health, 2005-present.

Sonzogni, W. Member of the Environmental Health Steering Committee, Wisconsin Division of Health, 2003 – present.

Spallato, A. Served on the Water Contamination Response Workgroup, November 2004-July 2005.

Stanton, N. Member of the CDC's LRN-C Proficiency Testing Working Group, May 10, 2004 –present.

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

Stewart, J., III. Member of American Society of Cytopathology, 1998-present. Chair, Website Editorial Committee, 2004-present.

Stewart, J., III. Member of American Society of Clinical Pathologists, 1998-present.

Stewart, J., III. Member of College of American Pathologists (CAP), 1998-present.

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



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